

# MAHLE

## TURBOCHARGER

WEATHERLY INDEX 660  
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**Aftermarket 2019**

[WWW.MAHLE-AFTERMARKET.COM](http://WWW.MAHLE-AFTERMARKET.COM)

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These products are intended solely for automotive applications. Under absolutely NO circumstances should these products ever be used in non-automotive applications including, without limitation, aircraft engines, medical equipment, atomic energy devices or reactors.

“Federal, State and local laws restrict the removal, rendering inoperative, or in some cases the modification of factory installed emission devices or systems. California restricts the use of parts which could increase emissions in vehicles

designed for use on public streets or highways. The sale or installation on emission controlled vehicles of certain emission control components not approved by the California Air Resources Board, which alter or modify the original design or performance of such vehicle’s emission control system is prohibited. Some of the parts listed and offered for sale in this catalog may fall within the above restrictions. Such parts are intended only for use on off-road vehicles competing in competitive events or on other types of vehicles which are exempt from the applicable emission control laws. Installation of these parts on vehicles subject to emission control laws may be prohibited.

MAHLE Aftermarket recommends that the applicable emission control laws be reviewed before considering the installation of add-on or modified parts.”

## → DECLARATION

*Original part numbers of vehicle or engine manufacturers are given for internal comparison only. They are not meant to give the original of the parts and must not be used with the vehicle owner.*

*The preparation and printing of this catalog took several months, the latest application can therefore not be included. In some cases the product even had to be changed during quantity production. In case of doubt, please contact your representative.*

*All information given in this catalog has been compiled carefully; however, they are not binding. Changes on the part of the manufacturers are also subject to reservation.*

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# HOW TO USE THIS CATALOG

Each block has the following pertinent information:

1. Block no.
2. Engine application detail
3. Product category
4. Year range
5. Product and application notes
6. Part number

PART	YEAR	NOTES	PART NUMBER
<b>1</b>	<b>3</b>	<b>2</b> 1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm) VW Engine Codes: 'ATW,AWM', VIN Code: 'C' (2000 - 2001)	<b>3</b>
<b>Turbochargers</b>			
Turbocharger	<b>4</b> 2000 - 2001	(Condition New, Type with Manifold/Actuator, Add-on 030TA14082000)	<b>6</b> 030 TA 14082 000
	2000 - 2001	(Condition New, Add-on 030TA14665000, K04 Upgrade for Stock Turbo)	030 TC 14665 000
<b>5 Kits and Add-ons</b>			
Turbocharger Mounting Kit	2000 - 2001	(030TC14082000)	030 TA 14082 000
	2000 - 2001	(030TC14665000, K04 Upgrade for Stock Turbo)	030 TA 14665 000

Please note: The MAHLE Aftermarket turbocharger program covers the majority of vehicle and engine applications. To allow us to offer our customers the widest possible range of products, it contains not only MAHLE® turbochargers, but also products from other renowned manufacturers in OEM quality. These turbochargers have been listed under a MAHLE part number in our catalog for means of simplification.

# PART NUMBER IDENTIFICATION



**Manufacturer Code**

**Type of product**

**Indicates if the turbocharger is**

- TC** . . . . . Turbocharger
- TH** . . . . . Turbocharger Cartridge
- TS** . . . . . Turbocharger Service Kit
- TA or GS** . . . Turbocharger Mounting Kit
- TP** . . . . . Turbocharger Pedestal

- 000** . . . . . New
- 100** . . . . . Remanufactured

Turbochargers from MAHLE Aftermarket are sold with all the pieces required to replace the turbocharger. Also available are (sold separately):

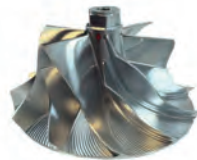
- **Service Kit:** turbocharger rebuild kit
- **Mounting Kit:** gaskets/necessary hardware
- **Cartridge:** bearing housing, turbine wheel with shaft & impellar
- **Compressor wheel:** new radial compressor
- **Exhaust adapter:** OE replacement that removes the factory EBPV and provides a smooth exit for the exhaust gases
- **Vane positioning solenoid:** restores precision control of vanes in a Variable Geometry Turbocharger



TURBOCHARGER (TC)



SERVICE KIT (TS)



COMPRESSOR WHEEL (TX)



TURBOCHARGER MOUNT (TP)



MOUNTING KIT (TA or GS)



CARTRIDGE (TH)



VANE POSITIONING SOLENOID (TX)



EXHAUST ADAPTER (TX)

# TURBOCHARGER DIAGNOSTIC MATRIX

## MAINTENANCE AND CARE

Turbochargers are designed to last for the service life of the engine. Monitoring is restricted to a few periodic checks that should be performed during every engine service. One condition for achieving longevity, however, is exact compliance with the engine manufacturer's servicing specifications – such as oil change intervals, oil-filter system maintenance, oil-pressure checks, cleaning of all filter systems, and regular, professional filter changes.

## HOW TURBOCHARGER DAMAGE IS CAUSED

Defects on the exhaust-gas turbocharger mostly have one of the following causes:

- **Inadequate lubrication. If there is insufficient lubrication, the bearings will fail and the compressor and turbine wheels grind against their housings.**
- **Contaminated oil. Contaminated oil leads to score marks on shaft journals and bearings. Oil bore holes and seals become clogged and cause insufficient oil supply.**
- **Intrusion of foreign bodies. Foreign bodies that, for example, enter through a defective air filter, damage the turbine or compressor wheels. The resulting unbalance damages the turbocharger bearing.**

## WHAT MUST BE FOLLOWED WHEN HANDLING TURBOCHARGERS

The turbocharger is a technically complex unit with precisely matched components. When handling, the turbocharger it is important to:

- **Train repair shop personnel. Turbochargers reach speeds of up to 300,000 rpm. Their individual components are made to minimum manufacturing tolerances. Maintenance and replacement should therefore be carried out by suitably qualified personnel. What is important here is also the use of special tools and machines, for example for balancing.**

- **Do not modify the turbocharger. Turbocharger design is optimized for a specific engine type at the manufacturing plant. For this reason, no adjustments or modifications should be made to them. For example, if the boost pressure increases, it may cause the engine to overheat, resulting in damage to the pistons, cylinder head, or engine mounts.**
- **Use the correct engine oil. Important when changing the oil: Only use engine oil recommended by the manufacturer. Any deviation in viscosity may cause incorrect lubrication and damage the turbocharger.**

## ADVICE THAT COMPETENT CAR REPAIR SHOPS CAN GIVE THEIR CUSTOMERS

Here are a few tips for the customers of car repair shops which can help keep turbochargers running at top performance.

- **If the turbocharger is producing any unusual noises, oil leaks, or vibrations stop the engine immediately and have the engine checked by a technician.**
- **The turbocharger needs time to lubricate. After starting the engine, it takes about 30 seconds until the oil flows completely through the oil circuit. Only then may you rev the engine at high speed.**
- **Do not shut the engine off immediately. If the engine was running at high speeds, do not shut it off immediately. The reason is that the turbocharger will continue to run without sufficient lubrication. An important tip for car repair shop customers: Before shutting down the engine, let it run at idle for about 20 seconds.**





# OIL CARBON IN BEARING CASE

## EFFECTS

- Blue-smoke
- Loss of performance
- Loss of oil via turbine and compressor
- Contamination in the charge-air cooler
- Clogged exhaust gas cleaning system
- Blocked control mechanism with adjustable turbochargers

## POSSIBLE CAUSES

- Use of unsuitable engine oil (poor quality)
- Turbocharger overheating
- Immediate switch off of the hot engine

## CORRECTIVE/PREVENTATIVE ACTION

- Pay attention to the prescribed oil grade
- Let the hot engine run on for at least one minute
- Pay attention to the necessary measures during tuning
- Flush the oil after turbocharger damage so that no deposits enter the lubricant circuit
- Dismantle oil pan and clean carefully
- Replace the turbocharger after flushing with oil
- Pay attention to installation instructions
- Observe oil change intervals
- Significantly shorten the oil change interval if running with bio-fuel
- Change the oil and oil filter as well as the air filter when replacing the turbocharger



# OIL CARBON DEPOSITS IN OIL PIPE

## EFFECTS

- Blue-smoke
- Loss of performance
- Total failure of the turbocharger
- Heavy contamination of the charge-air cooler with foreign bodies
- Clogged exhaust gas cleaning system
- Noise from turbocharger

## POSSIBLE CAUSES

- Overdue oil change interval
- Use of unsuitable engine oil (poor quality)
- Incorrectly installed oil pipe
- Missing heat shield

## CORRECTIVE/PREVENTATIVE ACTION

- Replace oil feed pipe when replacing the turbocharger
- Use manufacturer specified oil grade and follow oil change schedule
- The charge-air cooler must be replaced if the turbocharger is damaged
- Change the diesel particulate filter and check the catalytic converter if the turbine wheel was damaged
- Carefully clean the intake system
- Change the oil and the oil and air filter when replacing the turbocharger
- Significantly shorten the oil change interval if running with bio-fuel
- Pay attention to installation instructions



# EXCESS LOSS OF OIL CAUSED BY BLOCKED OIL RETURN LINE

## EFFECTS

- Blue-smoke
- Loss of performance
- Engine oil is forced into the turbine and compressor
- Seized or stiff mechanical parts (adjustment, bypass, wastegate, ...)
- Heavy contamination in the charge-air cooler
- Engine oil collects in the charge-air cooler
- Clogged exhaust gas cleaning system

## POSSIBLE CAUSES

- Constriction or bend in the oil return line
- Excessive oil level in engine
- Use of sealing compound instead of gasket set
- Replace the return line but without changing the engine connection

## CORRECTIVE/PREVENTATIVE ACTION

- Use only the matching mounting gasket set
- Exchange oil lines
- Clean the oil return line connection to the engine
- Dismantle oil pan and clean carefully
- Carefully clean the charge-air cooler, replacement is better
- If mechanical parts are stiff (VGT™, bypass, wastegate, ...) replace the turbocharger
- Change the oil and oil filter as well as the air filter when replacing the turbocharger
- Significantly shorten the oil change interval if running with bio-fuel



# CONTAMINATION OF THE COMPRESSOR

## EFFECTS

- Black-smoke
- Loss of performance
- Noise (whistling)
- Contamination in the charge-air cooler

## POSSIBLE CAUSES

- Contamination enters the compressor via the intake system

## CORRECTIVE/PREVENTATIVE ACTION

- Carefully clean the complete intake system
- Replace air filter
- Replace charge-air cooler
- Replace turbocharger
- Read out error memory and check the mass air flow sensor Reset service engine codes and clean the mass air flow sensor
- Change the oil and oil filter as well as the air filter when replacing the turbocharger



# CONTAMINATED COMPRESSOR WHEEL

## EFFECTS

- Black-smoke
- Loss of performance
- Noise (whistling)
- Contamination and damage to the charge-air cooler

## POSSIBLE CAUSES

- Loose deposits from the crankcase ventilation
- Ice in the intake system caused by condensation
- Fragments from from previously damaged turbocharger
- Leak in the intake system
- Abrasive wear of compressor blades

## CORRECTIVE/PREVENTATIVE ACTION

- Carefully clean the complete intake system
- Carefully clean or renew the crankcase ventilation
- Replace turbocharger
- Reset service engine codes and clean the mass air flow sensor
- Change the oil, oil filter and air filter when replacing the turbocharger
- Carefully clean or renew the charge-air cooler
- Clean the air intake system
- Check intake system for leaks



# CRACKED TURBINE HOUSING

## EFFECTS

- Loss of performance at low speeds

## POSSIBLE CAUSES

- Overheating through incorrect setting of the injection system
- Inappropriate tuning

## CORRECTIVE/PREVENTATIVE ACTION

- Replace turbocharger
- Change the oil, oil filter and air filter when replacing the turbocharger
- Allow engine to return to normal operating temperature
- Check the engine management system





# STRESS MARKS ON COMPRESSOR WHEEL

## EFFECTS

- Blue-smoke
- Loss of performance
- Noise
- Heavy contamination in the charge-air cooler
- Clogged exhaust gas cleaning system

## POSSIBLE CAUSES

- Bearing damage due to contaminated oil
- Bearing damage due to lack of oil
- Increased exhaust back pressure
- Clogged air filter

## CORRECTIVE/PREVENTATIVE ACTION

- Check bearing clearance of the turbocharger shaft
- Check condition of engine oil, flush engine if necessary
- Check oil pressure
- Change the oil and oil filter as well as the air filter when replacing the turbocharger



# TURBINE WHEEL DAMAGE

## EFFECTS

- Blue-smoke
- Loss of performance
- Noises
- Heavy contamination in the charge-air cooler
- Clogged exhaust gas cleaning system
- Stiffness of mechanical parts (adjustment, by-pass, wastegate, ...)
- Electronic control unit switches to emergency program

## POSSIBLE CAUSES

- Contamination enters the turbine via the engine
- Loose parts in the exhaust manifold and exhaust gas cleaning system

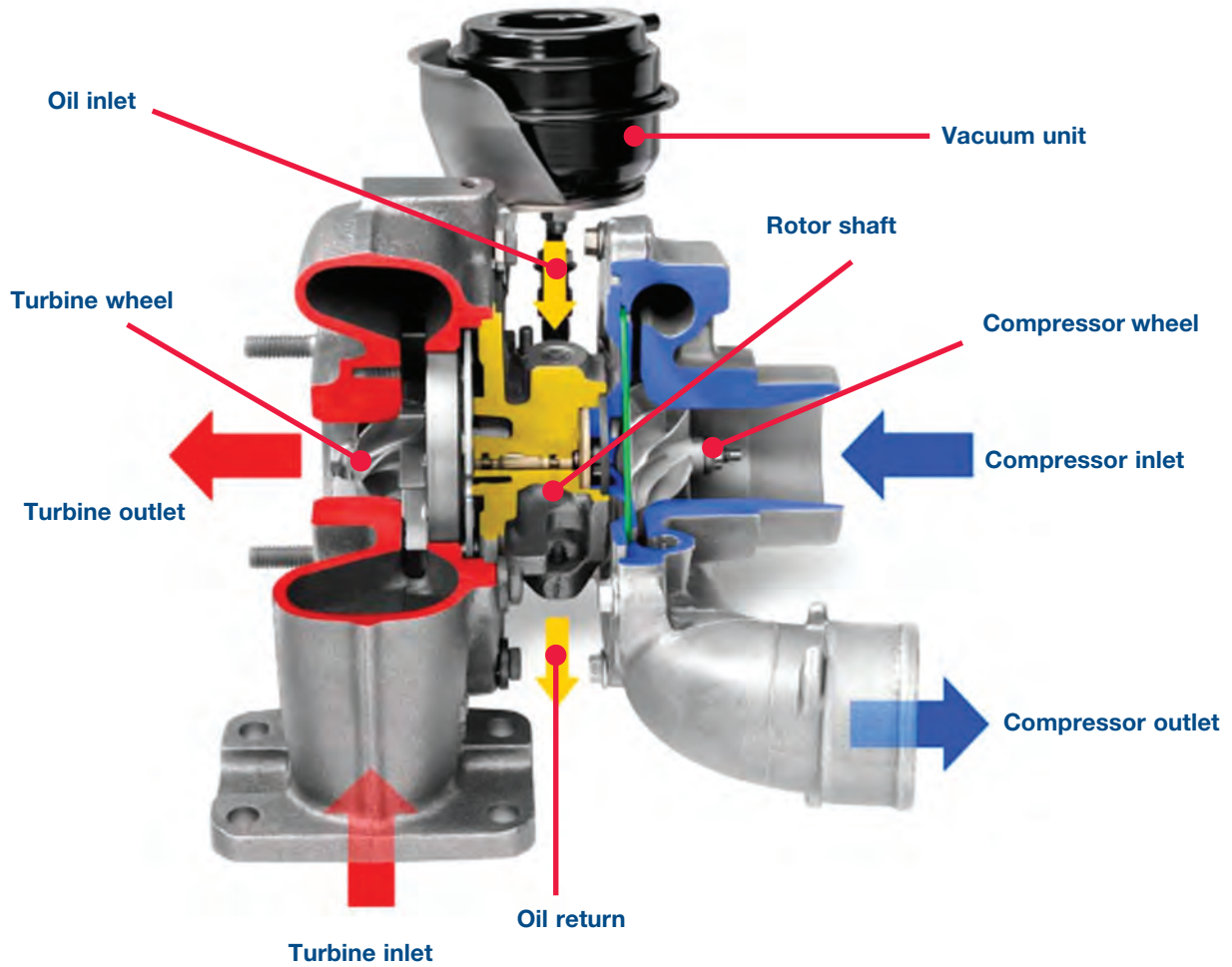
## CORRECTIVE/PREVENTATIVE ACTION

- Endoscopic examination of combustion chambers
- Check exhaust gas cleaning system for contamination and mechanical damage
- Check and if necessary replace all turbocharger oil lines
- Check and if necessary replace charge-air cooler
- Check and if necessary replace compensator pipes and manifold
- Replace turbocharger





# TURBOCHARGER NOMENCLATURE



# TURBOCHARGER INSTALLATION CHECKLIST

## Before Installation

- Diagnose and solve the reason for the failure of the old turbocharger (possibly a fault on or around engine)
- Compare turbocharger model number with the engine specifications and the turbocharger manufacturer's model number
- Check for proper engine cooling
- Check oil supply, make sure oil return from the turbocharger to the crankcase is clear
- Intake, charge air and exhaust area:
  - Check for functional capability
  - Clean out any contamination by foreign bodies or fluids and solve why they were present
  - Clean any undamaged air supply hoses and pipes
- In the case of liquid-cooled turbochargers: check for adequate coolant flow
- Check whether an adjustment of the housing position is necessary
- Torque fasteners as specified by the engine and vehicle manufacturer
- Make sure the flanges and threads are free of damage, debris and wear
- Use only brand new gaskets and seals
- Change engine oil and filter as specified by the engine and vehicle manufacturer

## During Installation

- Before securing the oil supply line the turbocharger should be filled with new engine oil through the oil inlet hole, while slightly turning the rotor manually
- Attention paid to correct handling

## After Installation

- Idle for approximately 120 seconds after engine is running
- During idling: All connections (air, exhaust, water and oil) checked for firm seating, tightness and free of leaks, gas-tightness checked with soapy water if necessary
- Monitor oil pressure
- After 20 operating hours or 650 miles, check all relevant connections again for firm seating, tightness and free of leaks

### → IMPORTANT NOTE FOR CAR REPAIR SHOPS:

*The turbocharger may only be installed by skilled personnel. Incorrect installation, use and operation of the turbocharger or modifications to it can cause damage to the turbocharger and the engine. The manufacturer's specifications as well as the installation and start-up instructions must be followed. No liability for material defects shall be accepted if a turbocharger is installed that does not comply with the engine specifications or if the installation and fitting instructions have not been followed. Visible faults must be reported immediately.*

# HOW TO LOOK UP A TURBOCHARGER

## MAHLE



Manufacturer part number

Manufacturing code

## GARRETT



OE part number

Manufacturer part number

Serial number

Model

## HOLSET



Manufacturer part number

Serial number

OE part number

Model

## KKK (K TURBO SYSTEMS/BORG WARNER)



OE part number

Model

Serial number

Manufacturer part number

## SCHWITZER (BORG WARNER)



Manufacturer part number

Serial number

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# POUR LE SOUTIEN TECHNIQUE : 1-800-248-9606

Heures : 8 h 30 à 18 h  
(du lundi au vendredi)

L'utilisation de produits de marques MAHLE et Clevite dans l'aviation ou une autre industrie représente une violation des lois et règlements.

Ces produits sont uniquement conçus pour une utilisation dans le secteur automobile. Ces produits ne doivent EN AUCUN CAS être utilisés pour des applications autres que l'automobile, incluant sans exception moteurs d'avion, équipement médical ou équipement relié à l'énergie atomique.

Les lois fédérales, d'État, provinciales ou locales interdisent la modification de tout système d'émissions. La Californie restreint l'usage de toutes pièces pouvant modifier les

équipements antipollution d'origine sur tout véhicule, pour des utilisations sur autoroute et toute autre route. Toute modification apportée aux systèmes antipollution est strictement interdite.

Certaines pièces listées et offertes pour la vente dans ce catalogue peuvent enfreindre les lois mentionnées ci-dessus. Les pièces sont conçues pour les véhicules « hors terrain », de compétition, etc. L'installation de ces pièces sont sujettes aux normes d'émissions et peuvent être interdites.

MAHLE Aftermarket recommande que les lois sur les émissions soient examinées et prises en compte avant l'installation.

## → DÉCLARATION

*Les références originales des constructeurs de véhicules ou de moteurs sont données à titre de comparaison interne. Elles ne sont pas destinées à fournir les informations originales des pièces et ne doivent pas être utilisées avec le propriétaire du véhicule.*

*La préparation et l'impression de ce catalogue ont pris plusieurs mois, et la dernière application peut donc ne pas être incluse. Dans certains cas, le produit a même dû être changé lors de la production en quantité. En cas de doute, veuillez contacter votre représentant.*

*Toutes les informations données dans ce catalogue ont été compilées avec soin. Cependant, elles ne sont pas contraignantes. Les modifications apportées par les fabricants sont également soumises à des réserves.*

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# COMMENT UTILISER CE CATALOGUE

Chaque bloc comporte les renseignements pertinents suivants :

1. Numéro de bloc
2. Détail d'application moteur
3. Catégorie de produit
4. Années applicables
5. Notes sur le produit et l'application
6. Référence

PART	YEAR	NOTES	PART NUMBER
<b>1</b> 3		1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm) VW Engine Codes: 'ATW,AWM', VIN Code: 'C' (2000 - 2001)	<b>2</b> 3
<b>Turbochargers</b>			
Turbocharger	2000 - 2001	(Condition New, Type with Manifold/Actuator, Add-on 030TA14082000)	030 TA 14082 000
	2000 - 2001	(Condition New, Add-on 030TA14665000, K04 Upgrade for Stock Turbo)	030 TC 14665 000
<b>Kits and Add-ons</b>			
Turbocharger Mounting Kit	2000 - 2001	(030TC14082000)	030 TA 14082 000
	2000 - 2001	(030TC14665000, K04 Upgrade for Stock Turbo)	030 TA 14665 000

*Veillez noter : Le programme de turbocompresseur MAHLE Aftermarket couvre la majorité des applications moteur et véhicule. Pour nous permettre de proposer à nos clients la gamme de produits la plus large possible, il contient non seulement les turbocompresseurs MAHLE®, mais aussi les produits d'autres fabricants renommés en qualité d'équipementiers. Ces turbocompresseurs ont été répertoriés sous une référence MAHLE dans notre catalogue pour des raisons de simplification.*



# IDENTIFICATION DES RÉFÉRENCES



**Code du fabricant**

**Type de produit**

**Indique si le turbocompresseur est**

**TC** .....Turbocompresseur

**000** .....Neuf

**TH** .....Cartouche de turbocompresseur

**100** .....Réusiné

**TS** .....Nécessaire d'entretien de turbocompresseur

**TA ou GS** ...Nécessaire de montage de turbocompresseur

**TP** .....Socle de turbocompresseur

Les turbocompresseurs MAHLE Aftermarket sont vendus avec toutes les pièces requise pour le remplacement. Sont également disponibles (vendus séparément) :

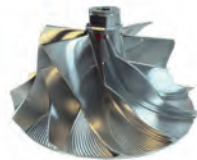
- **Nécessaire d'entretien** : nécessaire de réparation du turbocompresseur
- **Nécessaire de montage** : joints/matériel nécessaire
- **Cartouche** : boîtier de roulement, roue de turbine avec l'arbre et impulseur
- **Roue de compresseur** : compresseur radial neuf
- **Adaptateur d'échappement** : Remplacement d'origine qui supprime le clapet de contrepression à l'échappement d'usine et fournit un dégagement en douceur des gaz d'échappement
- **Solénoïde de positionnement des ailettes** : restaure un contrôle de précision des ailettes dans un turbocompresseur à géométrie variable



TURBOCOMPRESSEUR (TC)



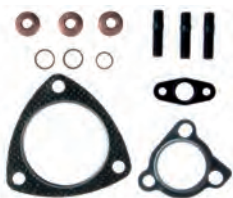
NÉCESSAIRE D'ENTRETIEN (TS)



ROUE DE COMPRESSEUR (TX)



MONTANT DE TURBOCOMPRESSEUR (TP)



NÉCESSAIRE DE MONTAGE (TA ou GS)



CARTOUCHE (TH)



SOLÉNOÏDE DE POSITIONNEMENT DES AILETTES (TX)



ADAPTEUR D'ÉCHAPPEMENT (TX)



# MATRICE DE DIAGNOSTIC DU TURBOCOMPRESSEUR

## MAINTENANCE ET ENTRETIEN

Les turbocompresseurs sont conçus pour durer la durée de vie du moteur. La surveillance est limitée à quelques contrôles périodiques qui doivent être effectués au cours de chaque entretien du moteur. Toutefois, une des conditions de longévité est le respect absolu des spécifications d'entretien du fabricant du moteur, telles que les intervalles de vidange d'huile, la maintenance du système de filtre à huile, le contrôle de la pression d'huile, le nettoyage de tous les systèmes de filtre et les remplacements de filtre réguliers et professionnels.

## CAUSES DES DOMMAGES DU TURBOCOMPRESSEUR

Les défaillances du turbocompresseur des gaz d'échappement sont généralement causées par l'une des causes suivantes :

- **Une lubrification insuffisante. Une lubrification insuffisante cause la défaillance des paliers et le frottement des roues de turbine contre leur logement.**
- **Une huile contaminée. L'huile contaminée mène à rayures sur les tourillons et les paliers. Les joints et orifices d'huile s'obstruent et causent un débit d'huile insuffisant.**
- **La pénétration de corps étrangers. Les corps étrangers qui pénètrent par exemple dans un filtre à air défectueux endommagent la turbine ou les roues du compresseur. Le déséquilibre résultant endommage le palier du turbocompresseur.**

## À RESPECTER LORS DES TRAVAUX SUR LES TURBOCOMPRESSEURS

Le turbocompresseur est élément techniquement complexe muni de composants adaptés avec précision. Lors des travaux sur le turbocompresseur, il est important de :

- **Former les membres du personnel de l'atelier de réparation. Les turbocompresseurs doivent atteindre des vitesses allant jusqu'à 300 000 tr/mn. Leurs composants individuels sont construits selon les tolérances de fabrication minimum. La maintenance et le remplacement doivent donc être effectués par un personnel qualifié. Il est également important d'utiliser des outils et des machines spéciaux, par exemple pour l'équilibrage.**

- **Ne pas modifier le turbocompresseur. La conception du turbocompresseur est optimisée pour un type de moteur spécifique à l'usine de fabrication. Pour cette raison, aucun ajustement ni modification ne doivent être apportés. Par exemple, si la pression de suralimentation augmente, elle peut causer la surchauffe du moteur, ce qui risque d'endommager les pistons, la culasse ou les supports de moteur.**
- **Utiliser l'huile moteur adaptée. Important pour la vidange : Utiliser uniquement l'huile moteur recommandée par le fabricant. Toute déviation de la viscosité peut causer une lubrification incorrecte et endommager le turbocompresseur.**

## CONSEILS QUE LES ATELIERS DE RÉPARATION COMPÉTENTS PEUVENT DONNER À LEURS CLIENTS

Voici quelques conseils pour les clients des ateliers de réparation automobile qui peuvent favoriser une performance maximale des turbocompresseurs.

- **Si le turbocompresseur produit des bruits inhabituels, des fuites d'huile ou des vibrations, arrêter immédiatement le moteur et le faire contrôler par un technicien.**
- **La lubrification du turbocompresseur nécessite un certain temps. Après le démarrage du moteur, il faut environ 30 secondes jusqu'à ce que l'huile passe complètement à travers le circuit d'huile. Seulement à ce stade est-il permis de faire tourner le moteur à haute vitesse.**
- **Ne pas arrêter le moteur immédiatement. Si le moteur tournait à haute vitesse, ne pas l'éteindre immédiatement. Cela est dû au fait que le turbocompresseur continuerait à fonctionner sans lubrification suffisante. Un conseil important pour les clients des ateliers de réparation automobile : Avant d'arrêter le moteur, le laisser tourner au ralenti pendant environ 20 secondes.**



# CALAMINE DANS LE BOÎTIER DE ROULEMENT

## EFFETS

- Fumée bleue
- Performance amoindrie
- Perte d'huile par la turbine et le compresseur
- Contamination dans le refroidisseur d'air de suralimentation
- Système de nettoyage des gaz d'échappement encrassé
- Mécanisme de contrôle bloqué avec turbocompresseurs réglables

## CAUSES POSSIBLES

- Utilisation d'une huile moteur inadaptée (mauvaise qualité)
- Surchauffe du turbocompresseur
- Couper immédiatement le moteur chaud

## ACTION CORRECTIVE/PRÉVENTIVE

- Veiller à utiliser la qualité d'huile prescrite
- Laisser le moteur chaud tourner pendant au moins une minute
- Veiller prendre les mesures nécessaires pendant la mise au point
- Vidanger l'huile après un dommage du turbocompresseur pour qu'aucun dépôt ne pénètre dans le circuit de lubrification
- Démontez le carter d'huile et le nettoyer soigneusement
- Remplacer le turbocompresseur après la vidange
- Respecter les instructions d'installation
- Respecter les intervalles de vidange d'huile
- Réduire sensiblement l'intervalle de vidange en cas d'utilisation de biocarburant
- Vidanger l'huile et remplacer le filtre à huile ainsi que le filtre à air lors du remplacement du turbocompresseur



# DÉPÔTS DE CALAMINE DANS LA CONDUITE D'HUILE

## EFFETS

- Fumée bleue
- Performance amoindrie
- Défaillance totale du turbocompresseur
- Forte contamination du refroidisseur d'air de suralimentation par des corps étrangers
- Système de nettoyage des gaz d'échappement encrassé
- Bruit provenant du turbocompresseur

## CAUSES POSSIBLES

- Intervalle de vidange d'huile non respecté
- Utilisation d'une huile moteur inadaptée (mauvaise qualité)
- Conduite d'huile mal installée
- Écran thermique manquant

## ACTION CORRECTIVE/PRÉVENTIVE

- Remplacer la conduite d'alimentation d'huile lors du remplacement du turbocompresseur
- Utiliser le type d'huile recommandé par le fabricant et respecter les intervalles de vidange
- Le refroidisseur d'air de suralimentation doit être remplacé si le turbocompresseur est endommagé
- Remplacer le filtre à particules diesel et contrôler le catalyseur si la roue de turbine a été endommagée
- Nettoyer soigneusement le circuit d'admission
- Vidanger l'huile et remplacer le filtre à huile et le filtre à air lors du remplacement du turbocompresseur
- Réduire sensiblement l'intervalle de vidange en cas d'utilisation de biocarburant
- Respecter les instructions d'installation



# PERTE D'HUILE EXCESSIVE CAUSÉE PAR UNE CONDUITE DE RETOUR D'HUILE OBSTRUÉE

## EFFETS

- Fumée bleue
- Performance amoindrie
- L'huile moteur est forcée dans la turbine et le compresseur
- Pièces mécaniques raides ou grippées (réglage, dérivation, soupape de décharge, etc.)
- Forte contamination dans le refroidisseur d'air de suralimentation
- L'huile moteur s'accumule dans le refroidisseur d'air de suralimentation
- Système de nettoyage des gaz d'échappement obstrué

## CAUSES POSSIBLES

- Coude ou étranglement dans la conduite de retour d'huile
- Niveau d'huile excessif dans le moteur
- Utilisation d'un produit d'étanchéité au lieu de joints
- Remplacer la conduite de retour sans modifier la connexion du moteur

## ACTION CORRECTIVE/PRÉVENTIVE

- Utiliser uniquement les joints de montage adaptés
- Remplacer les conduites d'huile
- Nettoyer la connexion de la conduite d'huile de retour au moteur
- Démonter le carter d'huile et le nettoyer soigneusement
- Nettoyer soigneusement le refroidisseur d'air de suralimentation, et il est préférable de le remplacer
- Si les pièces mécaniques sont raides (VGT™, dérivation, soupape de décharge, etc.), remplacer le turbocompresseur
- Vidanger l'huile et remplacer le filtre à huile ainsi que le filtre à air lors du remplacement du turbocompresseur
- Réduire sensiblement l'intervalle de vidange en cas d'utilisation de biocarburant





# CONTAMINATION DU COMPRESSEUR

## EFFETS

- Fumée noire
- Performance amoindrie
- Bruit (sifflement)
- Contamination dans le refroidisseur d'air de suralimentation

## CAUSES POSSIBLES

- Contamination dans le compresseur via le circuit d'admission

## ACTION CORRECTIVE/PRÉVENTIVE

- Nettoyer soigneusement l'intégralité du circuit d'admission
- Remplacer le filtre à air
- Remplacer le refroidisseur d'air de suralimentation
- Remplacer le turbocompresseur
- Lire la mémoire d'erreurs et contrôler le débitmètre d'air massique Réinitialiser les codes d'entretien du moteur et nettoyer le débitmètre d'air massique
- Vidanger l'huile et remplacer le filtre à huile ainsi que le filtre à air lors du remplacement du turbocompresseur



# ROUE DE COMPRESSEUR CONTAMINÉE

## EFFETS

- Fumée noire
- Performance amoindrie
- Bruit (sifflement)
- Contamination et dommage du refroidisseur d'air de suralimentation

## CAUSES POSSIBLES

- Dépôts détachés provenant de la ventilation du carter
- Glace dans le circuit d'admission causée par de la condensation
- Fragments provenant d'un turbocompresseur précédemment endommagé
- Fuite dans le circuit d'admission
- Abrasion des aubes du compresseur

## ACTION CORRECTIVE/PRÉVENTIVE

- Nettoyer soigneusement l'intégralité du circuit d'admission
- Nettoyer soigneusement ou rénover la ventilation du carter
- Remplacer le turbocompresseur
- Réinitialiser les codes d'entretien du moteur et nettoyer le débitmètre d'air massique
- Vidanger l'huile et remplacer le filtre à huile et le filtre à air lors du remplacement du turbocompresseur
- Nettoyer soigneusement ou rénover le refroidisseur d'air de suralimentation
- Nettoyer le circuit d'admission d'air
- Vérifier que le circuit d'admission ne fuit pas



# CARTER DE TURBINE FISSURÉ

## EFFETS

- Perte de performance à faible vitesse

## CAUSES POSSIBLES

- Surchauffe causée par un mauvais réglage du circuit d'injection
- Réglage inapproprié

## ACTION CORRECTIVE/PRÉVENTIVE

- Remplacer le turbocompresseur
- Vidanger l'huile et remplacer le filtre à huile et le filtre à air lors du remplacement du turbocompresseur
- Laisser le moteur revenir à la température de fonctionnement normale
- Contrôler le système de gestion du moteur





# SIGNES DE FATIGUE SUR LA ROUE DE COMPRESSEUR

## EFFETS

- Fumée bleue
- Performance amoindrie
- Bruit
- Forte contamination dans le refroidisseur d'air de suralimentation
- Système de nettoyage des gaz d'échappement obstrué

## CAUSES POSSIBLES

- Paliers endommagés en raison d'une contamination de l'huile
- Paliers endommagés en raison d'un manque d'huile
- Augmentation de la contrepression des gaz d'échappement
- Filtre à air obstrué

## ACTION CORRECTIVE/PRÉVENTIVE

- Contrôler le jeu des paliers de l'arbre du turbocompresseur
- Contrôler l'état de l'huile moteur, rincer le moteur si nécessaire
- Contrôler la pression d'huile
- Vidanger l'huile et remplacer le filtre à huile ainsi que le filtre à air lors du remplacement du turbocompresseur



# DOMMAGE DE LA ROUE DE TURBINE

## EFFETS

- Fumée bleue
- Performance amoindrie
- Bruits
- Forte contamination dans le refroidisseur d'air de suralimentation
- Système de nettoyage des gaz d'échappement obstrué
- Raideur des pièces mécaniques (ajustement, dérivation, soupape de décharge, etc.)
- Le bloc de commande électronique passe au programme d'urgence

## CAUSES POSSIBLES

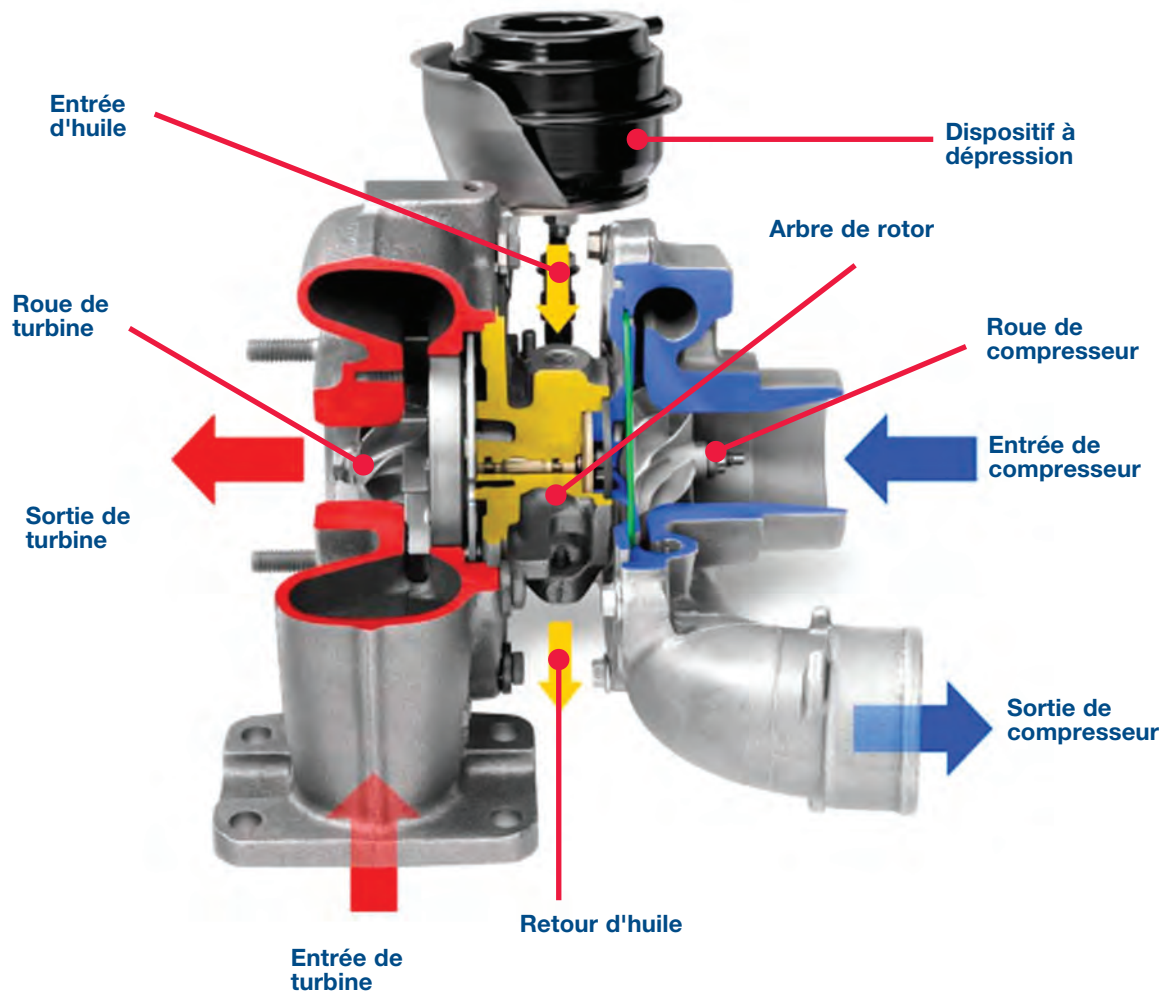
- Contamination dans la turbine via le moteur
- Pièces desserrées dans le collecteur d'échappement et le système de nettoyage des gaz d'échappement

## ACTION CORRECTIVE/PRÉVENTIVE

- Examen endoscopique des chambres de combustion
- Contrôler le système de nettoyage des gaz d'échappement pour détecter toute contamination et tout dommage mécanique
- Contrôler et, si nécessaire, remplacer toutes les conduites d'huile du turbocompresseur
- Contrôler et, si nécessaire, remplacer le refroidisseur d'air de suralimentation
- Contrôler et, si nécessaire, remplacer les conduites et le collecteur du compensateur
- Remplacer le turbocompresseur



# NOMENCLATURE DU TURBOCOMPRESSEUR



# LISTE DE VÉRIFICATION POUR L'INSTALLATION DU TURBOCOMPRESSEUR

## Avant l'installation

- Diagnostiquer et résoudre la cause de la défaillance de l'ancien turbocompresseur (peut être une défaillance au niveau du moteur)
- Comparer la référence du turbocompresseur aux caractéristiques du moteur et à la référence du fabricant du turbocompresseur
- Vérifier que le moteur se refroidit adéquatement
- Vérifier l'alimentation en huile, s'assurer que le retour d'huile du turbocompresseur au carter est propre
- Zone d'admission, d'air de suralimentation et d'échappement :
  - Contrôler la capacité fonctionnelle
  - Éliminer toute contamination par des corps ou les liquides étrangers et déterminer la cause de leur présence
  - Nettoyer toute conduite d'arrivée d'air en bon état
- Dans le cas de turbocompresseurs à refroidissement liquide : vérifier que le débit du liquide de refroidissement est adéquat
- Déterminer si un réglage de la position du boîtier est nécessaire
- Serrer les fixations au couple spécifié par le fabricant du moteur et du véhicule
- S'assurer que les brides et les filetages sont exempts de dommages, de débris et d'usure
- Utiliser une marque unique pour les joints neufs
- Vidanger l'huile moteur et remplacer le filtre comme spécifié par le fabricant du moteur et du véhicule

## Au cours de l'installation

- Avant d'attacher la conduite d'alimentation en huile, le turbocompresseur doit être rempli d'huile moteur fraîche par le trou d'arrivée d'huile, tout en faisant légèrement tourner le rotor à la main
- Veiller à assurer une bonne manipulation

## Après l'installation

- Laisser le moteur tourner au ralenti pendant environ 120 secondes
- Au ralenti : Contrôler toutes les connexions (air, échappement, eau et huile) pour vérifier leur fermeté, leur serrage et l'absence de fuites, et vérifier l'étanchéité aux gaz avec de l'eau savonneuse si nécessaire
- Contrôler la pression d'huile
- Après 20 heures de fonctionnement ou 650 miles, contrôler de nouveau toutes les connexions pertinentes pour vérifier leur fermeté, leur serrage et l'absence de fuites

### → NOTE IMPORTANTE POUR LES ATELIERS DE RÉPARATION AUTOMOBILE :

*Le turbocompresseur ne peut être installé que par du personnel qualifié. Une installation, une utilisation ou un fonctionnement incorrects du turbocompresseur ou des modifications du turbocompresseur peuvent endommager le turbocompresseur et le moteur. Les spécifications du fabricant, ainsi que les instructions d'installation et de mise en marche, doivent être suivies. Aucune responsabilité pour tout défaut matériel ne sera acceptée si un turbocompresseur non conforme aux spécifications du moteur est installé ou si l'installation et les instructions de montage n'ont pas été suivies. Les défauts visibles doivent être signalés immédiatement.*

# COMMENT RECHERCHER UN TURBOCOMPRESSEUR

## MAHLE



Référence du fabricant

Code du fabricant

## GARRETT



Référence d'origine

Référence du fabricant

Numéro de série

Modèle

## HOLSET



Référence du fabricant

Numéro de série

Référence d'origine

Modèle

## KKK (K TURBO SYSTEMS/BORG WARNER)



Référence d'origine

Modèle

Numéro de série

Référence du fabricant

## SCHWITZER (BORG WARNER)



Référence du fabricant

Numéro de série

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# PARA ASISTENCIA TÉCNICA LLAME: 01-800-590-5800

Horario: 8:30 am - 5:30 pm  
(Lunes a Viernes)

El uso de productos de marca MAHLE y Clevite en aeronaves u otro tipo de equipo especial, puede ser una violación de leyes locales, estatales o de la Agencia Federal de Regulaciones.

Estos productos están destinados exclusivamente para aplicaciones automotrices. Bajo ninguna circunstancia deben utilizarse en aplicaciones que no sean automotrices, incluyendo, sin limitaciones, motores de aeronaves, equipos médicos, aparatos de energía atómica o reactores.

Leyes federales, estatales y locales restringen el retiro, hacer inoperante, o en algunos casos, la modificación de los dispositivos o sistemas de emisiones de fábrica. El estado de California restringe el uso de componentes que puedan incrementar las emisiones en las unidades utilizadas en calles o carreteras públicas. La venta o instalación en vehículos de emisiones controladas de ciertos componentes

no aprobados por el California Air Resources Board, los cuales alteran o modifican el diseño o rendimiento original de los sistemas de control de emisiones está prohibido. Algunos de los componentes indicados y que se ofrecen para la venta en este catálogo pueden encontrarse dentro de las restricciones antes descritas. Tales componentes están destinados para utilizarse en vehículos todo terreno (off-road) que participan en diferentes competencias, o en otro tipo de vehículos que están exentos de las leyes aplicables para el control de emisiones. La instalación de estos componentes en vehículos sujetos a dichas leyes puede estar prohibida.

MAHLE recomienda revisar las leyes aplicables para el control de emisiones antes de considerar la instalación de este tipo de componentes o piezas modificadas.

Si usted necesita mayor información acerca de este tipo de componentes, por favor póngase en contacto con su representante MAHLE, o a través de nuestra línea de asistencia técnica 01-800-590-5800.

## → ACLARACIÓN

*Los números de pieza originales de fabricantes de vehículos o motores se presentan únicamente para comparación interna. No se presentan para proporcionar las piezas originales y no deben utilizarse con el propietario del vehículo.*

*La preparación e impresión de este catálogo tomó varios meses, y la última aplicación, por lo tanto, puede no estar incluida. En algunos casos, el producto incluso tuvo que cambiarse durante la producción en cantidad. En caso de duda, por favor, póngase en contacto con su representante.*

*Toda la información que se presenta en este catálogo se recopiló cuidadosamente; sin embargo, no es vinculante. Los cambios por parte de los fabricantes también se someten a reserva.*

*A la publicación del catálogo, todas las ediciones anteriores dejan de ser válidas. Derechos de autor reservados. La reproducción o los extractos requieren nuestro permiso por escrito. Se tomarán acciones en caso de mal uso.*

# CÓMO UTILIZAR ESTE CATÁLOGO

Cada bloque tiene la siguiente información pertinente:

1. Bloque No.
2. Detalle de aplicación del motor
3. Categoría de producto
4. Rango de año
5. Notas de producto y aplicación
6. No. de pieza

PART	YEAR	NOTES	PART NUMBER
<b>1</b> 3		1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm) VW <b>2</b> Engine Codes: 'ATW,AWM', VIN Code: 'C' (2000 - 2001)	3
<b>Turbochargers</b>			
Turbocharger <b>3</b>	2000 - 2001 <b>4</b>	(Condition New, Type with Manifold/Actuator, Add-on 030TA14082000)	030 TA 14082 000 <b>6</b>
	2000 - 2001	(Condition New, Add-on 030TA14665000, K04 Upgrade for Stock Turbo)	030 TC 14665 000
<b>5 Kits and Add-ons</b>			
Turbocharger Mounting Kit	2000 - 2001	(030TC14082000)	030 TA 14082 000
	2000 - 2001	(030TC14665000, K04 Upgrade for Stock Turbo)	030 TA 14665 000

Por favor, tenga en cuenta: El programa posventa de turbocargadores de MAHLE cubre la mayoría de las aplicaciones de vehículos y motores. Para poder ofrecer a nuestros clientes la más amplia gama de productos posible, contiene no sólo turbocargadores MAHLE®, sino también productos de otros renombrados fabricantes de calidad OEM. Estos turbocargadores se presentan bajo un No. de pieza MAHLE en nuestro catálogo en aras de la simplificación.

# IDENTIFICACIÓN DEL NÚMERO DE PIEZA

**XXX XX XXXXX XXX**

<p><b>Código del fabricante</b></p>	<p><b>Tipo de producto</b>  <b>TC</b> . . . . . Turbocargador  <b>TH</b> . . . . . Cartucho de turbocargador  <b>TS</b> . . . . . Kit de servicio de turbocargador  <b>TA o GS</b> . . . . Kit de montaje de turbocargador  <b>TP</b> . . . . . Pedestal de turbocargador</p>	<p><b>Indica si el turbocargador es</b>  <b>000</b> . . . . . Nuevo  <b>100</b> . . . . . Remanufacturado</p>
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Los turbocompresores posventa de MAHLE se venden con todas las piezas requeridas para reemplazar el turbocargador. También disponibles (se venden separadamente):

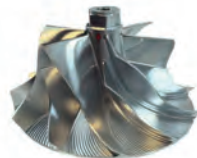
- **Kit de servicio:** kit de reconstrucción de turbocargador
- **Kit de montaje:** Empaques/hardware necesario
- **Cartucho:** carcasa de cojinetes, rueda de turbina con eje y propulsor
- **Rueda del compresor:** nuevo compresor radial
- **Adaptador del escape:** Reemplazo OE que remueve el EBPV de fábrica y provee una salida suave para los gases de escape
- **Solenoides de posicionamiento de vanos:** restaurar el control de precisión de los vanos en un turbocargador de geometría variable



TURBOCARGADOR (TC)



KIT DE SERVICIO (TS)



RUEDA DEL COMPRESOR (TX)



MONTURA DEL TURBOCARGADOR (TP)



KIT DE MONTAJE (TA o GS)



CARTUCHO (TH)



SOLENOIDE DE POSICIONAMIENTO DE VANOS (TX)



ADAPTADOR DEL ESCAPE (TX)

# MATRIZ DE DIAGNÓSTICO DEL TURBOCARGADOR

## MANTENIMIENTO Y CUIDADO

Los turbocargadores están diseñados para durar toda la vida de servicio del motor. El monitoreo está restringido a unas pocas revisiones periódicas que deben llevarse a cabo durante cada servicio del motor. Una condición para lograr la longevidad, sin embargo, es el cumplimiento exacto de las especificaciones de servicio del fabricante del motor, tales como intervalos de cambio de aceite, mantenimiento del sistema de filtro de aceite, revisiones de la presión de aceite, limpieza de todos los sistemas de filtro y cambios de filtros regulares y profesionales.

## CÓMO SE CAUSAN DAÑOS AL TURBOCARGADOR

Los defectos en el turbocargador de gases de escape normalmente tienen una de las siguientes causas:

- **Lubricación inadecuada. Si hay una lubricación insuficiente, fallarán los cojinetes y las ruedas del compresor y la turbina rozarán contra sus carcasas.**
- **Aceite contaminado. El aceite contaminado lleva a marcas de rayones sobre los ejes y cojinetes. Los agujeros para el aceite y los sellos se tapan y causan un suministro de aceite insuficiente.**
- **Ingreso de cuerpos extraños. Cuerpos extraños que, por ejemplo, ingresan a través de un filtro de aire defectuoso, dañan las ruedas de la turbina o del compresor. El desbalance resultante daña los cojinetes del turbocargador.**

## QUÉ DEBE HACERSE CUANDO SE MANIPULAN TURBOCARGADORES

El turbocargador es una unidad técnicamente compleja con componentes que coinciden de forma precisa. Al manipular turbocargadores, es importante:

- **Capacitar al personal del taller de reparación. Los turbocargadores alcanzan velocidades de hasta 300.000 rpm. Sus componentes individuales se fabrican a tolerancias de fabricación mínimas. Por lo tanto, el mantenimiento y el reemplazo debe llevarlo a cabo personal calificado idóneo. Lo que es importante aquí es también utilizar herramientas y máquinas especiales, por ejemplo, para el balanceo.**

- **No modifique el turbocargador. El diseño del turbocargador se optimizó para un tipo de motor específico en la planta de fabricación. Por esta razón, no deben hacerse ajustes ni modificaciones. Por ejemplo, si la presión de impulso aumenta, esto puede causar que el motor se recaliente dando como resultado un daño a los pistones, a la cabeza del cilindro o a las monturas del motor.**
- **Utilice el aceite de motor correcto. Importante cuando cambie el aceite: Únicamente utilice el aceite de motor recomendado por el fabricante. Cualquier desviación en la viscosidad puede causar una lubricación incorrecta y daños al turbocargador.**

## CONSEJO QUE LOS TALLERES DE REPARACIÓN DE AUTOMÓVILES COMPETENTES PUEDEN DARLE A SUS CLIENTES

Estos son algunos consejos para los clientes de talleres de reparación de automóviles que pueden ayudar a mantener los turbocargadores funcionando a un rendimiento superior.

- **Si el turbocargador está produciendo algún ruido inusual, fugas de aceite, o vibración, detenga inmediatamente el motor y hágalo revisar por un técnico.**
- **El turbocargador necesita tiempo para lubricarse. Después de arrancar el motor, se requieren aproximadamente 30 segundos para que el aceite fluya completamente a través del circuito de aceite. Sólo entonces podrá revisar el motor a alta velocidad.**
- **No apague el motor inmediatamente. Si el motor estaba funcionando a altas velocidades, no lo apague inmediatamente. Las razón es que el turbocargador continuará funcionando sin suficiente lubricación. Un consejo importante para los clientes de los talleres de reparación de automóviles: Antes de apagar el motor, déjelo funcionar al ralentí por aproximadamente 20 segundos.**



# CARBÓN DE ACEITE EN LA CAJA DE COJINETES

## EFFECTOS

- Humo azul
- Pérdida de rendimiento
- Pérdida de aceite a través de la turbina y el compresor
- Contaminación en el enfriador de aire de carga
- Sistema de limpieza del gas de escape obstruido
- Mecanismo de control bloqueado con turbocargadores ajustables

## CAUSAS POSIBLES

- Uso de un aceite para motor inadecuado (mala calidad)
- El turbocargador se recalienta
- Apague inmediatamente el motor caliente

## ACCIÓN CORRECTIVA/PREVENTIVA

- Preste atención al grado de aceite prescrito
- Permita que el motor caliente funcione durante al menos un minuto
- Preste atención a las medidas necesarias durante el ajuste
- Descargue el aceite después de un daño en el turbocargador, de manera que no entre ningún depósito al circuito del lubricante
- Desmantele la bandeja de aceite y límpiela cuidadosamente
- Reemplace el turbocargador después de enjuagarlo con aceite
- Preste atención a las instrucciones de instalación
- Observe los intervalos de cambio de aceite
- Recorte significativamente el intervalo de cambio de aceite si el funcionamiento se hace con biocombustibles
- Cambie el aceite y el filtro de aceite, al igual que el filtro de aire al reemplazar el turbocargador





# DEPÓSITOS DE CARBÓN DE ACEITE EN LA TUBERÍA DE ACEITE

## EFFECTOS

- Humo azul
- Pérdida de rendimiento
- Falla total del turbocargador
- Contaminación pesada del enfriador del aire de carga con cuerpos extraños
- Sistema de limpieza del gas de escape obstruido
- Ruido del turbocargador

## CAUSAS POSIBLES

- Tiempo excedido en el intervalo de cambio de aceite
- Uso de un aceite para motor inadecuado (mala calidad)
- Tubo de aceite mal instalado
- Escudo de calor faltante

## ACCIÓN CORRECTIVA/PREVENTIVA

- Reemplace el tubo de alimentación de aceite al reemplazar el turbocargador
- Utilice el grado de aceite especificado por el fabricante y siga el programa de cambio de aceite
- El enfriador del aire de carga debe reemplazarse si se daña el turbocargador
- Cambie el filtro de partículas del diesel y revise el convertidor catalítico si se daña la rueda de la turbina
- Limpie cuidadosamente el sistema de entrada
- Cambie el aceite y el filtro de aceite, al igual que el filtro de aire al reemplazar el turbocargador
- Recorte significativamente el intervalo de cambio de aceite si el funcionamiento se hace con biocombustibles
- Preste atención a las instrucciones de instalación





# PÉRDIDA DE ACEITE EXCESIVA CAUSADA POR UNA LÍNEA DE RETORNO DE ACEITE OBSTRUIDA

## EFECTOS

- Humo azul
- Pérdida de rendimiento
- Se fuerza aceite para motor dentro de la turbina y el compresor
- Piezas mecánicas agarrotadas o pegadas (ajuste, puente, esclusa de descarga, ...)
- Contaminación pesada en el enfriador de aire de carga
- Acumulación de aceite para motor en el enfriador de aire de carga
- Sistema de limpieza del gas de escape obstruido

## CAUSAS POSIBLES

- Restricción o doblez en la línea de retorno de aceite
- Nivel de aceite excesivo en el motor
- Uso de un compuesto de sellado en lugar del empaque
- Reemplace la línea de retorno sin cambiar la conexión del motor

## ACCIÓN CORRECTIVA/PREVENTIVA

- Utilice únicamente el empaque de montaje correspondiente
- Intercambie las líneas de aceite
- Limpie conexión de la línea de retorno de aceite al motor
- Desmantele la bandeja de aceite y límpiela cuidadosamente
- Limpie cuidadosamente el enfriador de aire de carga; es mejor reemplazarlo
- Si las piezas mecánicas están pegadas (VGT™, puente, esclusa de descarga, ...) reemplace el turbocargador
- Cambie el aceite y el filtro de aceite, al igual que el filtro de aire al reemplazar el turbocargador
- Recorte significativamente el intervalo de cambio de aceite si el funcionamiento se hace con biocombustibles



# CONTAMINACIÓN DEL COMPRESOR

## EFFECTOS

- Humo negro
- Pérdida de rendimiento
- Ruido (silbido)
- Contaminación en el enfriador de aire de carga

## CAUSAS POSIBLES

- Ingresa contaminación al compresor a través del sistema de entrada

## ACCIÓN CORRECTIVA/PREVENTIVA

- Limpie cuidadosamente todo el sistema de entrada
- Sustituya el filtro de aire
- Sustituya el enfriador de aire de carga
- Sustituya el turbocargador
- Lea la memoria de errores y revise el sensor de flujo de masa de aire. Reinicie los códigos de servicio del motor y limpie el sensor de flujo de masa de aire
- Cambie el aceite y el filtro de aceite, al igual que el filtro de aire al reemplazar el turbocargador



# RUEDA DEL COMPRESOR CONTAMINADA

## EFFECTOS

- Humo negro
- Pérdida de rendimiento
- Ruido (silbido)
- Contaminación y daños en el enfriador de aire de carga

## CAUSAS POSIBLES

- Depósitos sueltos de la ventilación de la caja del cigüeñal
- Hielo en el sistema de entrada causado por condensación
- Fragmentos de un turbocargador previamente dañado
- Fuga en el sistema de entrada
- Desgaste abrasivo de las palas del compresor

## ACCIÓN CORRECTIVA/PREVENTIVA

- Limpie cuidadosamente todo el sistema de entrada
- Limpie cuidadosamente o renueve la ventilación de la caja del cigüeñal
- Sustituya el turbocargador
- Reinicie los códigos de servicio del motor y limpie el sensor del flujo de masa de aire
- Cambie el aceite y el filtro de aceite y el filtro de aire al reemplazar el turbocargador
- Limpie cuidadosamente o renueve el enfriador del aire de carga
- Limpie el sistema de entrada de aire
- Revise el sistema de entrada en busca de fugas



# CARCASA DE LA TURBINA AGRIETADA

## EFFECTOS

- Pérdida de rendimiento a baja velocidad

## CAUSAS POSIBLES

- Recalentamiento por un ajuste incorrecto del sistema de inyección
- Ajuste inapropiado

## ACCIÓN CORRECTIVA/PREVENTIVA

- Sustituya el turbocargador
- Cambie el aceite y el filtro de aceite y el filtro de aire al reemplazar el turbocargador
- Permita que el motor regrese a la temperatura de operación normal
- Revise el sistema de gestión del motor



# MARCAS DE TENSIÓN EN LA RUEDA DEL COMPRESOR

## EFFECTOS

- Humo azul
- Pérdida de rendimiento
- Ruido
- Contaminación pesada en el enfriador de aire de carga
- Sistema de limpieza del gas de escape obstruido

## CAUSAS POSIBLES

- Daño en el cojinete debido a aceite contaminado
- Daño en el cojinete debido a falta de aceite
- Aumento en la contra presión del escape
- Filtro de aire obstruido

## ACCIÓN CORRECTIVA/PREVENTIVA

- Revise la holgura del cojinete del eje del turbocargador
- Revise la condición del aceite para motor, enjuague el motor si es necesario
- Revise la presión de aceite
- Cambie el aceite y el filtro de aceite, al igual que el filtro de aire al reemplazar el turbocargador



# DAÑO EN LA RUEDA DE LA TURBINA

## EFFECTOS

- Humo azul
- Pérdida de rendimiento
- Ruidos
- Contaminación pesada en el enfriador de aire de carga
- Sistema de limpieza del gas de escape obstruido
- Piezas mecánicas pegadas (ajuste, puente, esclusa de descarga, ..)
- La unidad de control electrónico se cambia al programa de emergencia

## CAUSAS POSIBLES

- Ingresa contaminación a la turbina a través del motor
- Partes sueltas en el múltiple de escape y en el sistema de limpieza de los gases del escape

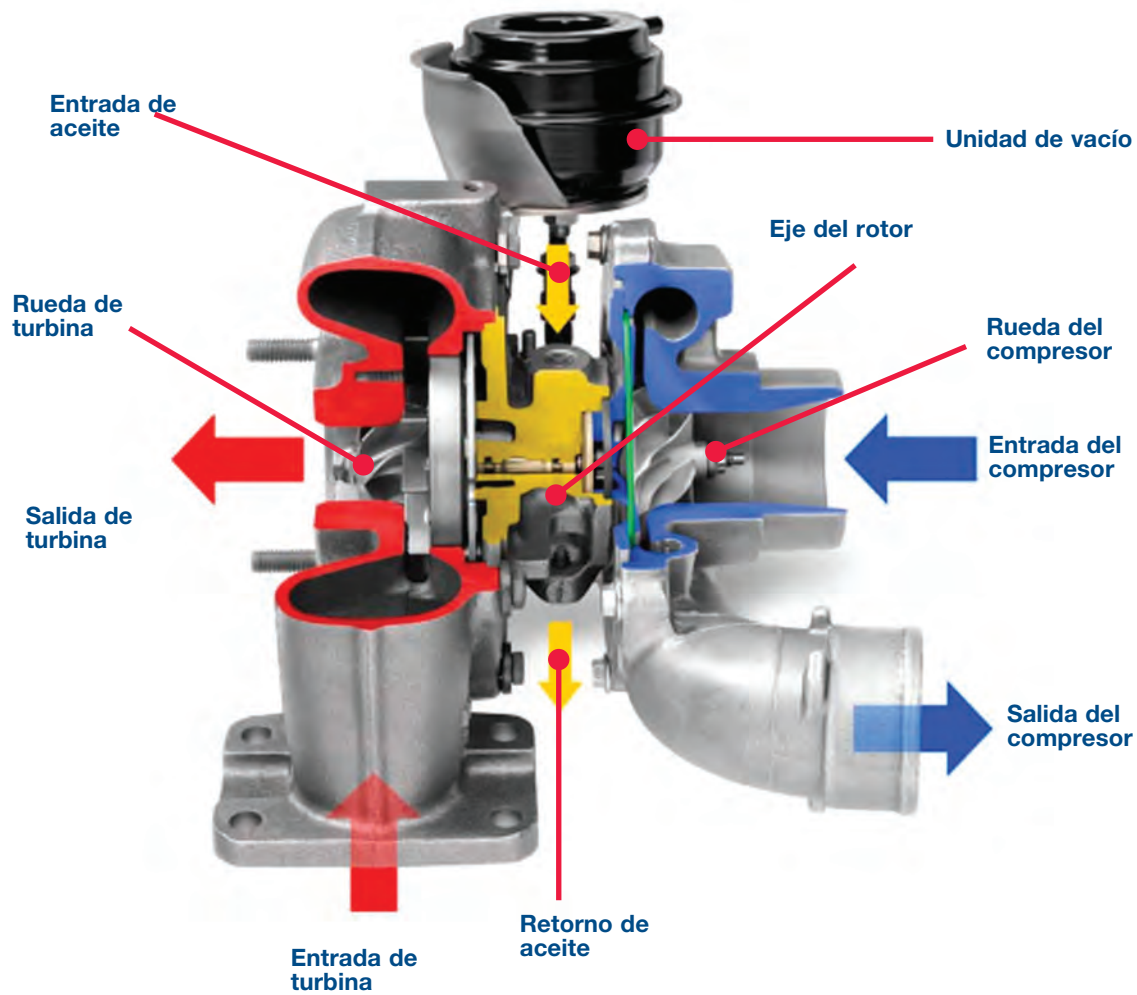
## ACCIÓN CORRECTIVA/PREVENTIVA

- Examen endoscópico de las cámaras de combustión
- Revise el sistema de limpieza del gas de escape en busca de contaminación y daños mecánicos
- Revise y, si es necesario, reemplace todas las líneas de aceite del turbocargador
- Revise y, si es necesario, reemplace el enfriador de aire de carga
- Revise y, si es necesario, reemplace los tubos y el múltiple del compensador
- Sustituya el turbocargador





# NOMENCLATURA DEL TURBOCARGADOR





# LISTA DE VERIFICACIÓN DE INSTALACIÓN DEL TURBOCARGADOR

## Antes de la instalación

- Diagnostique y resuelva la razón para la falla de un viejo turbocargador (posiblemente una falla en o alrededor del motor)
- Compare el número de modelo del turbocargador con las especificaciones del motor y el número de modelo del fabricante del turbocargador
- Revise en busca de un enfriamiento apropiado del motor
- Revise el suministro de aceite, asegúrese de que el retorno de aceite del turbocargador a la caja del cigüeñal esté limpio
- Entrada, aire de carga y área de escape:
  - Revise en busca de capacidad funcional
  - Limpie cualquier contaminación por cuerpos extraños o fluidos y solucione la razón por la cual está presente
  - Limpie cualquier manguera y tubo de suministro de aire que no esté dañada
- En el caso de turbocargadores enfriados por líquido: revise en busca de un flujo adecuado de refrigerante
- Revise si es necesario hacer un ajuste en la posición de la carcasa
- Apriete los tornillos según lo especificado por el fabricante del motor y del vehículo
- Asegúrese de que las bridas y las roscas estén libres de daños, restos y desgaste
- Utilice únicamente empaques y sellos nuevos
- Cambie el aceite y el filtro del motor según lo especificado por el fabricante del motor del vehículo

## Durante la instalación

- Antes de sujetar la línea del suministro de aceite al turbocargador, ésta debe llenarse con aceite para motor nuevo a través del agujero de entrada de aceite mientras se gira ligeramente el rotor a mano
- Preste atención a una manipulación correcta

## Después de la instalación

- Mantenga el motor al ralentí aproximadamente por 120 segundos después de encender el motor
- Mientras está al ralentí: Revise todas las conexiones (aire, escape, agua y aceite) en busca de un ajuste firme, revise que estén apretadas y libres de fugas, revise la estanqueidad del gas con agua jabonosa si es necesario
- Monitoree la presión de aceite
- Después de 20 horas de operación o 650 millas, revise nuevamente que todas las conexiones relevantes estén bien asentadas, apretadas y libres de fugas

### → NOTA IMPORTANTE PARA LOS TALLERES DE REPARACIÓN DE AUTOMÓVILES:

*El turbocargador sólo puede instalarlo personal capacitado. Una instalación, uso y operación incorrectos del turbocargador, o sus modificaciones pueden causar daños al turbocargador y al motor. Deben seguirse las especificaciones del fabricante, al igual que sus instrucciones de instalación y puesta en marcha. No se aceptará ninguna responsabilidad por defectos materiales si se instala un turbocargador que no cumpla con las especificaciones del motor, o si no se siguen las instrucciones de instalación y ajuste. Deben informarse inmediatamente fallas visibles.*

# CÓMO REVISAR UN TURBOCARGADOR

## MAHLE



No. de pieza del fabricante

Código del fabricante

## GARRETT



No. de pieza OE

No. de pieza del fabricante

Número de serie

Modelo

## HOLSET



No. de pieza del fabricante

Número de serie

No. de pieza OE

Modelo

## KKK (K TURBO SYSTEMS/BORG WARNER)



No. de pieza OE

Modelo

Número de serie

No. de pieza del fabricante

## SCHWITZER (BORG WARNER)



No. de pieza del fabricante

Número de serie

**ABBREVIATIONS USED THROUGHOUT CATALOG**  
**ABRÉVIATIONS UTILISÉS A TRAVERS LE CATALOGUE**  
**ABREVIATURAS UTILIZADAS A LO LARGO DEL CATÁLOGO**

	EN	FR	SP
<b>AL</b>	Air dryer/air brake system filter	Séchoir a air / système de freins a air	Filtro secador para el sistema de frenos de aire
<b>GC</b>	Spin-on gearbox oil filter	Filtre a huile visse sur transmission	Filtro sellado para aceite de transmisión
<b>HC</b>	Spin-on hydraulic filter	Filtre de transmission / hydraulique de type cartouche	Filtro hidráulico sellado
<b>HX</b>	Hydraulic/Transmission filter cartridge	Cartouche filtrante hydraulique / transmission	Cartucho para filtro de transmisión / hidráulico
<b>KC</b>	Spin-on fuel filter	Filtre a essence visse	Filtro para combustible sellado
<b>KL</b>	In-line fuel filter	Filtre a essence en ligne	Filtro para combustible en línea
<b>KLH</b>	In-line fuel filter with bracket	Filtre a essence en ligne avec attache	Filtro para combustible en línea con soporte
<b>KS</b>	Fuel water separator	Filtre séparateur d'eau pour carburant	Separador de agua para combustible
<b>KX</b>	Fuel filter cartridge	Filtre a essence cartouche	Cartucho filtro para combustible
<b>LA</b>	Cabin air particle filter (standard)	Filtre d'habitacle conventionnel	Filtro para cabina (estándar)
<b>LAG</b>	Cabin air particle filter including housing	Filtre d'habitacle conventionnel avec boîtier incl.	Filtro para cabina incluye carcasa
<b>LAK</b>	Cabin air activated carbon filter (premium)	Filtre d'habitacle au charbon active	Filtro para cabina con carbón activado (premium)
<b>LAGK</b>	Cabin air activated carbon filter including housing	Filtre d'habitacle au charbon active avec boîtier incl.	Filtro para cabina con carbón activado incluye carcasa
<b>LAR</b>	Cabin air filter including frame	Filtre d'habitacle incl. Contour cadre	Filtro para cabina incluye marco
<b>LC</b>	Air filter cartridge	Filtre d'habitacle cartouche	Cartucho filtro para aire
<b>LKK</b>	Cabin air (activated carbon) filter kit	Kit de filtre d'habitacle au charbon active	Kit de Filtro para cabina con carbon activado
<b>LX</b>	Air filter (primary)	Filtre a air primaire	Filtro para aire (primario)
<b>LXS</b>	Safety air filter (secondary)	Filtre a air secondaire	Filtro de seguridad para aire (secundario)
<b>OC</b>	Spin-on oil filter	Filtre a huile visse (Spin-On)	Filtro para aceite sellado
<b>OR</b>	Eco oil filter	Filtre a huile écologique	Filtro para aceite Eco
<b>OX</b>	Oil filter cartridge	Filtre a huile cartouche	Cartucho filtro para aceite
<b>OZ</b>	Centrifuge type oil filter	Filtre a huile centrifuge	Filtro para aceite tipo centrifugo
<b>SOX</b>	Oil mist separator	Séparateur d'huile	Separador de gases para aceite
<b>WFC</b>	Coolant filter	Filtre a liquide de refroidissement	Filtro para refrigerante
<b>ASP</b>	Aspiration (i.e. naturally aspirated, turbo etc)	Aspiration (i.e. naturelle, par turbo etc.)	Aspiración (ejemplo: aspiración natural, turbo, etc)
<b>AWD</b>	All wheel drive	4 roues motrices (Traction intégrale)	Tracción en las 4 ruedas
<b>CB</b>	Carburetor	Carburateur	Carburador
<b>CID</b>	Cubic Inch Displacement	Cylindrée	Pulgadas cúbicas de desplazamiento
<b>CYL</b>	Cylinders	Cylindre	Cilindros
<b>DEL</b>	Fuel Delivery (i.e. carburetor or injection)	Injection ou Carburateur	Sistema de combustible (ejemplo: carburado o inyección)
<b>E/Cap</b>	End cap	Embout	Tapa final

## ABBREVIATIONS USED THROUGHOUT CATALOG

## ABRÉVIATIONS UTILISÉS A TRAVERS LE CATALOGUE

## ABREVIATURAS UTILIZADAS A LO LARGO DEL CATÁLOGO

	EN	FR	SP
<b>ENG</b>	Engine number	No. de moteur	Número de motor
<b>FI</b>	Fuel Injection	Injection de carburant	Inyección de combustible
<b>FWD</b>	Front wheel drive	Front wheel drive	Tracción delantera
<b>L4</b>	4 cylinder in-line	4 Cylindres en ligne	4 cilindros en línea
<b>Loc:</b>	Location of cabin air filter	Emplacement du filtre d'habitacle	Ubicación filtro para cabina
<b>Loc: EC</b>	Engine compartment	Compartiment moteur	Compartimiento de motor
<b>Loc: GB</b>	Glove box	Boite a gants	Guantera
<b>Loc: UD</b>	Under dash	Sous tableau de bord	Debajo del tablero
<b>N</b>	Naturally aspirated	Aspiration conventionnel	Aspiración natural
<b>S</b>	Supercharged	Supercharged	Supercargado
<b>T</b>	Turbocharged	Turbo compresse	Turbocargado
<b>VIN</b>	VIN code	Numéro d'identification du véhicule	Código VIN

**ACURA Truck**

ENGINE	CODE	YEAR	BLOCK
2300 CC (2.3L) DOHC 16V L4 HONDA	K23A1	2007 - 2012	1

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>2300 CC (2.3L) DOHC 16V L4 3.89" (86.0mm) HONDA</b> Engine Code: 'K23A1' (2007 - 2012)	<b>1</b>

**Turbochargers**

Turbocharger	2007 - 2012	(Condition Remanufactured)	631 TC 20001 100
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**Gaskets**

Turbocharger Mounting Gasket Set	2007 - 2012		GS33919
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**AUDI**

ENGINE	CODE	YEAR	BLOCK
1781 CC (1.8L) DOHC 20V L4 VW	ATC	2000 - 2001	1
1781 CC (1.8L) DOHC 20V L4 VW	AMB	2000 - 2006	2
1781 CC (1.8L) DOHC 20V L4 VW	ATW	2000 - 2006	2
1781 CC (1.8L) DOHC 20V L4 VW	AWM	2000 - 2006	2
1781 CC (1.8L) DOHC 20V L4 VW	AWP	2001 - 2006	3
120 CID (2.0L) DOHC 16V L4 VW Diesel	CRUA	2015 - 2016	4
120 CID (2.0L) DOHC 16V L4 VW Diesel	DEJA	2015 - 2016	4
1781 CC (1.8L) DOHC 20V L4 VW	AMU	2000 - 2002	5
1781 CC (1.8L) DOHC 20V L4 VW	BEA	2003 - 2006	6
120 CID (2.0L) DOHC 16V L4 VW Diesel	CBEA	2010 - 2013	7
1781 CC (1.8L) DOHC 20V L4 VW	AEB	1997 - 2000	8
2671 CC (2.7L) DOHC 30V V6 VW	BEL	2003 - 2005	9
2671 CC (2.7L) DOHC 30V V6 VW	APB	2000 - 2002	10
121 CID (2.0L) DOHC 16V L4 VW	CAEB	2013 - 2017	11
121 CID (2.0L) DOHC 16V L4 VW	CAED	2013 - 2017	11
121 CID (2.0L) DOHC 16V L4 VW	CPMA	2013 - 2017	11
121 CID (2.0L) DOHC 16V L4 VW	CPMB	2013 - 2017	11
121 CID (2.0L) DOHC 16V L4 VW	BPG	2005 - 2009	12
121 CID (2.0L) DOHC 16V L4 VW	BWT	2005 - 2009	12
121 CID (2.0L) DOHC 16V L4 VW	BPY	2006 - 2009	13
121 CID (2.0L) DOHC 16V L4 VW	CBFA	2008 - 2013	14
121 CID (2.0L) DOHC 16V L4 VW	CDMA	2009 - 2015	15
121 CID (2.0L) DOHC 16V L4 VW	CCTA	2008 - 2013	16
121 CID (2.0L) DOHC 16V L4 VW	CAEB	2009 - 2012	17

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm) VW</b> Engine Code: 'ATC', VIN Codes: 'C,S' (2000 - 2001)	<b>1</b>

**Turbochargers**

Turbocharger	2000 - 2001	(Condition New)	030 TC 21202 000
	2000 - 2001	(Condition Remanufactured)	030 TC 21202 100

**Kits and Add-ons**

Turbocharger Cartridge	2000 - 2001	(Condition New)	030 TH 21203 000
Turbocharger Mounting Kit	2000 - 2001	(Condition New)	030 TA 21201 000
Turbocharger Service Kit	2000 - 2001	(Works for New)	030 TS 20115 000

PART	YEAR	NOTES	PART NUMBER
<b>2</b>		<b>1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm) VW</b> Engine Codes: 'AMB,ATW,AWM', VIN Code: 'C' (2000 - 2006)	<b>2</b>

**Turbochargers**

Turbocharger	2000 - 2006	(Condition New, With Manifold/Actuator)	030 TC 14082 000
	2000 - 2006	(Condition Remanufactured, With Manifold/Actuator)	030 TC 14082 100
	2000 - 2005	(Condition New, K04 Upgrade for Stock Turbo)	030 TC 14665 000

**Kits and Add-ons**

Turbocharger Cartridge	2000 - 2006	(Condition New)	030 TH 14665 000
Turbocharger Mounting Kit	2000 - 2006	(Condition New)	030 TA 14082 000
	2000 - 2006	(K04 Upgrade for Stock Turbo, New)	030 TA 14665 000
Turbocharger Service Kit	2000 - 2006	(Works for New)	030 TS 20114 000

<b>3</b>		<b>1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm) VW</b> Engine Code: 'AWP', VIN Codes: 'C,X' (2001 - 2006)	<b>3</b>
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**Turbochargers**

Turbocharger	2001 - 2006	(Condition New)	030 TC 21201 000
	2001 - 2006	(Remanufactured)	030 TC 21201 100

**Kits and Add-ons**

Turbocharger Cartridge	2001 - 2006	(Condition New)	030 TH 21201 000
Turbocharger Mounting Kit	2001 - 2006	(Condition New)	030 TA 21201 000

<b>4</b>		<b>120 CID (2.0L) DOHC 16V L4 3.76" (81.0mm) VW; Diesel</b> Engine Codes: 'CRUA,DEJA' (2015 - 2016)	<b>4</b>
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**Turbochargers**

Turbocharger	2015 - 2016	(Condition New)	030 TC 11002 000
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**Kits and Add-ons**

Turbocharger Mounting Kit	2015 - 2016	(Condition New)	030 TA 11002 000
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<b>5</b>		<b>1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm) VW</b> Engine Code: 'AMU', VIN Code: 'T' (2000 - 2002)	<b>5</b>
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**Turbochargers**

Turbocharger	2001 - 2002	(Condition New)	030 TC 21204 000
	2001 - 2002	(Condition Remanufactured)	030 TC 21204 100
	2000	(Condition New)	030 TC 21206 000
	2000	(Condition Remanufactured)	030 TC 21206 100

**Kits and Add-ons**

Turbocharger Cartridge	2002	(Condition New)	030 TH 15091 000
Turbocharger Mounting Kit	2000 - 2002	(Condition New)	030 TA 21201 000

<b>6</b>		<b>1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm) VW</b> Engine Code: 'BEA' (2003 - 2006)	<b>6</b>
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**Turbochargers**

Turbocharger	2003 - 2006	(Condition New)	030 TC 15091 000
	2003 - 2006	(Condition Remanufactured)	030 TC 15091 100

**Kits and Add-ons**

Turbocharger Cartridge	2003 - 2006	(Condition New)	030 TH 15091 000
Turbocharger Mounting Kit	2003 - 2006	(Condition New)	030 TA 15091 000

PART	YEAR	NOTES	PART NUMBER
<b>7</b>		<b>120 CID (2.0L) DOHC 16V L4 3.76" (81.0mm) VW; Diesel</b> Engine Code: 'CBEA' (2010 - 2013)	<b>7</b>

**Turbochargers**

Turbocharger	2010 - 2013	(Condition New, With Manifold/Actuator)	030 TC 20023 000
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**Kits and Add-ons**

Turbocharger Mounting Kit	2012 - 2013	(Condition New)	030 TA 20023 000
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<b>8</b>		<b>1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm) VW</b> Engine Code: 'AEB', VIN Code: 'B' (1997 - 2000)	<b>8</b>
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**Turbochargers**

Turbocharger	1997 - 2000	(Condition New, With Manifold/Actuator)	030 TC 14306 000
	1997 - 2000	(Condition Remanufactured, With Manifold/Actuator)	030 TC 14306 100
	1997 - 2000	(Condition New, K04 Upgrade for Stock Turbo)	030 TC 14665 000

**Kits and Add-ons**

Turbocharger Cartridge	1997 - 2000	(Condition New)	030 TH 14665 000
Turbocharger Mounting Kit	1997 - 2000	(Condition New)	030 TA 14306 000
	1997 - 2000	(Condition New, K04 Upgrade for Stock Turbo)	030 TA 14665 000
Turbocharger Service Kit	1997 - 2000	(Works for New)	030 TS 20114 000

<b>9</b>		<b>2671 CC (2.7L) DOHC 30V V6 3.39" (81.0mm) VW</b> Engine Code: 'BEL', VIN Code: 'D' (2003 - 2005)	<b>9</b>
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**Turbochargers**

Turbocharger	2003 - 2005	(Condition Remanufactured, Right, Automatic Transmission)	030 TC 22001 100
	2003 - 2005	(Condition Remanufactured, Left, Automatic Transmission)	030 TC 22002 100
	2003 - 2005	(Condition New, Left, Manual Transmission)	030 TC 22003 000
	2003 - 2005	(Condition Remanufactured, Left, Manual Transmission)	030 TC 22003 100
	2003 - 2005	(Condition New, Right, Manual Transmission)	030 TC 22004 000
	2003 - 2005	(Condition Remanufactured, Right, Manual Transmission)	030 TC 22004 100

**Kits and Add-ons**

Turbocharger Cartridge	2003 - 2005	(Condition New)	030 TH 22001 000
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**Gaskets**

Turbocharger Mounting Gasket Set	2003 - 2005		GS33918
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<b>10</b>		<b>2671 CC (2.7L) DOHC 30V V6 3.39" (81.0mm) VW</b> Engine Code: 'APB', VIN Codes: 'D,P' (2000 - 2002)	<b>10</b>
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**Turbochargers**

Turbocharger	2000 - 2002	(Condition New, Left, Manual Transmission)	030 TC 22003 000
	2000 - 2002	(Condition Remanufactured, Left, Manual Transmission )	030 TC 22003 100
	2000 - 2002	(Condition New, Right, Manual Transmission)	030 TC 22004 000
	2000 - 2002	(Condition Remanufactured, Right, Manual Transmission)	030 TC 22004 100
	2000	(Condition New, Left, Manual Transmission)	030 TC 22003 000

**Kits and Add-ons**

Turbocharger Cartridge	2000 - 2002	(Condition New, Left, Right, Manual Transmission)	030 TH 22001 000
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**Gaskets**

Turbocharger Mounting Gasket Set	2000 - 2002		GS33918
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PART	YEAR	NOTES	PART NUMBER
<b>11</b>		<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm) VW</b> Engine Codes: 'CAEB,CAED,CPMA,CPMB' (2013 - 2017)	<b>11</b>

**Turbochargers**

Turbocharger	2013 - 2017	(Condition Remanufactured)	030 TC 20167 100
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**Gaskets**

Turbocharger Mounting Gasket Set	2013 - 2017		GS33929
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<b>12</b>		<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm) VW</b> Engine Codes: 'BPG,BWT', VIN Code: 'F' (2005 - 2009)	<b>12</b>
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**Turbochargers**

Turbocharger	2005 - 2009	(Condition New)	030 TC 20168 000
	2005 - 2009	(Condition Remanufactured)	030 TC 20168 100

**Kits and Add-ons**

Turbocharger Cartridge	2005 - 2009	(Condition New)	030 TH 20022 000
Turbocharger Mounting Kit	2005 - 2009	(Condition New)	030 TA 20168 000

<b>13</b>		<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm) VW</b> Engine Code: 'BPY', VIN Code: 'F' (2006 - 2009)	<b>13</b>
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**Turbochargers**

Turbocharger	2006 - 2009	(Condition New, With Manifold/Actuator)	030 TC 20022 000
	2006 - 2009	(Condition Remanufactured, With Manifold/Actuator)	030 TC 20022 100

**Kits and Add-ons**

Turbocharger Cartridge	2006 - 2009	(Condition New)	030 TH 20022 000
Turbocharger Mounting Kit	2006 - 2009	(Condition New)	030 TA 14638 000

<b>14</b>		<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm) VW</b> Engine Code: 'CBFA' (2008 - 2013)	<b>14</b>
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**Turbochargers**

Turbocharger	2008 - 2013	(Condition New, With Manifold/Actuator)	030 TC 20021 000
	2008 - 2013	(Condition Remanufactured, With Manifold/Actuator)	030 TC 20021 100

**Kits and Add-ons**

Turbocharger Mounting Kit	2008 - 2013	(Condition New)	030 TA 14638 000
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<b>15</b>		<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm) VW</b> Engine Code: 'CDMA' (2009 - 2015)	<b>15</b>
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**Turbochargers**

Turbocharger	2009 - 2015	(Condition New, With Manifold)	030 TC 14638 000
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<b>16</b>		<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm) VW</b> Engine Code: 'CCTA' (2008 - 2013)	<b>16</b>
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**Turbochargers**

Turbocharger	2008 - 2013	(Condition Remanufactured)	030 TC 20024 100
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**Gaskets**

Turbocharger Mounting Gasket Set	2008 - 2013		GS33921
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**AUDI**

PART	YEAR	NOTES	PART NUMBER
<b>17</b>	<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm) VW</b> Engine Code: 'CAEB' (2009 - 2012)		<b>17</b>
<b>Turbochargers</b>			
Turbocharger	2012	(Condition Remanufactured)	030 TC 20167 100
	2009 - 2012	(Condition New)	030 TC 20166 000
	2009 - 2012	(Condition Remanufactured)	030 TC 20166 100
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2009 - 2012		GS33929

**AUDI Truck**

ENGINE	CODE	YEAR	BLOCK
121 CID (2.0L) DOHC 16V L4 VW	CCTA	2015 - 2018	1
121 CID (2.0L) DOHC 16V L4 VW	CAEB	2011 - 2012	2
121 CID (2.0L) DOHC 16V L4 VW FLEX	CPMA	2013 - 2017	3
121 CID (2.0L) DOHC 16V L4 VW FLEX	CPMB	2013 - 2017	3

PART	YEAR	NOTES	PART NUMBER
<b>1</b>	<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm) VW</b> Engine Code: 'CCTA' (2015 - 2018)		<b>1</b>
<b>Turbochargers</b>			
Turbocharger	2015 - 2018	(Condition Remanufactured)	030 TC 20024 100
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2015 - 2018		GS33921
<b>2</b>	<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm) VW</b> Engine Code: 'CAEB' (2011 - 2012)		<b>2</b>
<b>Turbochargers</b>			
Turbocharger	2011 - 2012	(Condition New)	030 TC 20166 000
	2011 - 2012	(Condition Remanufactured)	030 TC 20166 100
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2011 - 2012		GS33929
<b>3</b>	<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm) VW; FLEX</b> Engine Codes: 'CPMA,CPMB' (2013 - 2017)		<b>3</b>
<b>Turbochargers</b>			
Turbocharger	2013 - 2017	(Condition Remanufactured)	030 TC 20167 100
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2013 - 2017		GS33929

**BMW**

ENGINE	CODE	YEAR	BLOCK
2979 CC (3.0L) DOHC 24V L6 BMW	N54B30A	2007 - 2016	1
2979 CC (3.0L) DOHC 24V L6 BMW	N55B30A	2010	2

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>2979 CC (3.0L) DOHC 24V L6 3.50" (84.0mm)</b> Engine Code: 'N54B30A' (2007 - 2016)	<b>1</b>

**Turbochargers**

Turbocharger	YEAR	NOTES	PART NUMBER
	2007 - 2016	(Condition New, Front, Includes Exhaust Manifold)	082 TC 20183 000
	2007 - 2016	(Condition Remanufactured, Front, Includes Exhaust Manifold)	082 TC 20183 100
	2007 - 2013	(Condition New, Rear, Includes Exhaust Manifold)	082 TC 20184 000
	2007 - 2013	(Condition Remanufactured, Rear, Includes Exhaust Manifold)	082 TC 20184 100

**Gaskets**

Turbocharger Mounting Gasket Set	YEAR	NOTES	PART NUMBER
	2007 - 2016		GS33900

<b>2</b>		<b>2979 CC (3.0L) DOHC 24V L6 3.50" (84.0mm)</b> Engine Code: 'N55B30A' (2010)	<b>2</b>
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**Turbochargers**

Turbocharger	YEAR	NOTES	PART NUMBER
	2010	(Condition New, Front, Includes Exhaust Manifold)	082 TC 20183 000
	2010	(Condition Remanufactured, Front, Includes Exhaust Manifold)	082 TC 20183 100

**BMW Truck**

ENGINE	CODE	YEAR	BLOCK
2979 CC (3.0L) DOHC 24V L6 BMW	N54B30A	2008 - 2010	1

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>2979 CC (3.0L) DOHC 24V L6 3.50" (84.0mm) BMW</b> Engine Code: 'N54B30A' (2008 - 2010)	<b>1</b>

**Gaskets**

Turbocharger Mounting Gasket Set	YEAR	NOTES	PART NUMBER
	2008 - 2010		GS33900

**CHRYSLER**

ENGINE	CODE	YEAR	BLOCK
122 CID (2.0L) DOHC 16V L4 MITSUBISHI	EBG	1990 - 1998	1
148 CID (2.4L) DOHC 16V L4 CHRYSLER	S	2003 - 2009	2
148 CID (2.4L) DOHC 16V L4 CHRYSLER	E	2003 - 2009	2
148 CID (2.4L) DOHC 16V L4 CHRYSLER	G	2003 - 2009	2
148 CID (2.4L) DOHC 16V L4 CHRYSLER	8	2003 - 2009	2
135 CID (2.2L) SOHC 8V L4 CHRYSLER	C	1984 - 1988	3
135 CID (2.2L) SOHC 8V L4 CHRYSLER	D	1984 - 1988	3
135 CID (2.2L) SOHC 8V L4 CHRYSLER	A	1984 - 1988	4
135 CID (2.2L) SOHC 8V L4 CHRYSLER	E	1984 - 1988	4
148 CID (2.4L) DOHC 16V L4 CHRYSLER	EDZ	2001 - 2008,2010	5
156 CID (2.6L) SOHC 8V L4 MITSUBISHI	H	1984 - 1989	6
156 CID (2.6L) SOHC 8V L4 MITSUBISHI	N	1984 - 1989	6

**CHRYSLER**

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>122 CID (2.0L) DOHC 16V L4 3.46" (85.0mm) MITSUBISHI</b> Engine Code: 'EBG', VIN Codes: 'F,U' (1990 - 1998)	<b>1</b>

**Turbochargers**

Turbocharger	1990 - 1998	(Condition Remanufactured, Manual Transmission); VIN: F	513 TC 20186 100
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**Gaskets**

Turbocharger Mounting Gasket Set	1990 - 1998	VIN: F	GS33311
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<b>2</b>		<b>148 CID (2.4L) DOHC 16V L4 3.98" (87.4mm)</b> VIN Codes: '8,E,G,S' (2003 - 2009)	<b>2</b>
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**Turbochargers**

Turbocharger	2003 - 2009	(Condition New, Includes Exhaust Manifold, Includes Oil Feed Line)	513 TC 20182 000
	2003 - 2009	(Condition Remanufactured, Includes Exhaust Manifold, Includes Oil Feed Line)	513 TC 20182 100

**Kits and Add-ons**

Turbocharger Cartridge	2003 - 2009	(Condition New)	513 TH 20182 000
Turbocharger Service Kit	2003 - 2009	(Works for New)	513 TS 20182 000

**Gaskets**

Turbocharger Mounting Gasket Set	2003 - 2009		GS33905
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<b>3</b>		<b>135 CID (2.2L) SOHC 8V L4 3.62" (87.5mm)</b> VIN Codes: 'C,D' (1984 - 1988)	<b>3</b>
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**Gaskets**

Turbocharger Mounting Gasket Set	1984 - 1988		GS33070
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<b>4</b>		<b>135 CID (2.2L) SOHC 8V L4 3.62" (87.5mm)</b> VIN Codes: 'A,E' (1984 - 1988)	<b>4</b>
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**Turbochargers**

Turbocharger	1988	(Condition Remanufactured); VIN: A   DAYTONA	513 TC 20185 100
	1988	(Condition Remanufactured); VIN: E   CARAVELLE, LE BARON, NEW YORKER, SUNDANCE, TOWN & COUNTRY	513 TC 20187 100
	1985 - 1987	(Condition Remanufactured); VIN: E	513 TC 20184 100
	1984	(Condition Remanufactured)	513 TC 20183 100

**Gaskets**

Turbocharger Mounting Gasket Set	1984 - 1988		GS33070
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<b>5</b>		<b>148 CID (2.4L) DOHC 16V L4 3.98" (87.5mm)</b> Engine Code: 'EDZ', VIN Codes: '9,B' (2001 - 2008,2010)	<b>5</b>
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**Turbochargers**

Turbocharger	2010	(Condition New, Includes Exhaust Manifold, Includes Oil Feed Line)	513 TC 20182 000
	2010	(Condition Remanufactured, Includes Exhaust Manifold, Includes Oil Feed Line)	513 TC 20182 100
	2001 - 2008	(Condition New, Includes Exhaust Manifold, Includes Oil Feed Line)	513 TC 20182 000
	2001 - 2008	(Condition Remanufactured, Includes Exhaust Manifold, Includes Oil Feed Line)	513 TC 20182 100

**CHRYSLER**

PART	YEAR	NOTES	PART NUMBER
<b>6</b>		<b>156 CID (2.6L) SOHC 8V L4 3.86" (91.1mm) MITSUBISHI</b> VIN Codes: 'H,N' (1984 - 1989)	<b>6</b>

**Gaskets**

Turbocharger Mounting Gasket Set	1984 - 1989		GS33077
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**DODGE**

ENGINE	CODE	YEAR	BLOCK
83 CID (1.4L) SOHC 16V L4 CHRYSLER	EAF	2013 - 2016	1
135 CID (2.2L) SOHC 8V L4 CHRYSLER	C	1984 - 1988	2
135 CID (2.2L) SOHC 8V L4 CHRYSLER	D	1984 - 1988	2
135 CID (2.2L) SOHC 8V L4 CHRYSLER	8	1984 - 1988	2
135 CID (2.2L) SOHC 8V L4 CHRYSLER	A	1984 - 1988	3
135 CID (2.2L) SOHC 8V L4 CHRYSLER	E	1984 - 1988	3
148 CID (2.4L) DOHC 16V L4 CHRYSLER	S	2003 - 2005	4
156 CID (2.6L) SOHC 8V L4 MITSUBISHI	H	1984 - 1986	5
156 CID (2.6L) SOHC 8V L4 MITSUBISHI	N	1984 - 1986	5
181 CID (3.0L) DOHC 24V V6 MITSUBISHI	6G72-T	1991 - 1996	6

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>83 CID (1.4L) SOHC 16V L4 3.31" (71.9mm) CHRYSLER</b> Engine Code: 'EAF', VIN Code: 'H' (2013 - 2016)	<b>1</b>

**Turbochargers**

Turbocharger	2013 - 2016	(Condition New, with Actuator)	513 TC 20181 000
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**Gaskets**

Turbocharger Mounting Gasket Set	2013 - 2016		GS33908
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<b>2</b>		<b>135 CID (2.2L) SOHC 8V L4 3.62" (87.5mm) CHRYSLER</b> VIN Codes: '8,C,D' (1984 - 1988)	<b>2</b>
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**Gaskets**

Turbocharger Mounting Gasket Set	1984 - 1988		GS33070
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<b>3</b>		<b>135 CID (2.2L) SOHC 8V L4 3.62" (87.5mm) CHRYSLER</b> VIN Codes: 'A,E' (1984 - 1988)	<b>3</b>
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**Turbochargers**

Turbocharger	1988	(Condition Remanufactured); VIN: E	513 TC 20187 100
	1985 - 1987	(Condition Remanufactured); VIN: E	513 TC 20184 100

**Gaskets**

Turbocharger Mounting Gasket Set	1984 - 1988		GS33070
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**DODGE**

PART	YEAR	NOTES	PART NUMBER
<b>4</b>		<b>148 CID (2.4L) DOHC 16V L4 3.98" (87.5mm) CHRYSLER</b> VIN Code: 'S' (2003 - 2005)	<b>4</b>

**Turbochargers**

Turbocharger	2003 - 2005	(Condition New, Includes Exhaust Manifold, Includes Oil Feed Line)	513 TC 20182 000
	2003 - 2005	(Condition Remanufactured, Includes Exhaust Manifold, Includes Oil Feed Line)	513 TC 20182 100

**Kits and Add-ons**

Turbocharger Cartridge	2003 - 2005	(Condition New)	513 TH 20182 000
Turbocharger Service Kit	2003 - 2005	(Works for New)	513 TS 20182 000

**Gaskets**

Turbocharger Mounting Gasket Set	2003 - 2005		GS33905
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<b>5</b>		<b>156 CID (2.6L) SOHC 8V L4 3.86" (91.1mm) MITSUBISHI</b> VIN Codes: 'H,N' (1984 - 1986)	<b>5</b>
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**Gaskets**

Turbocharger Mounting Gasket Set	1984 - 1986		GS33077
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<b>6</b>		<b>181 CID (3.0L) DOHC 24V V6 2.99" (91.1mm) MITSUBISHI</b> Engine Code: '6G72-T', VIN Codes: 'C,K' (1991 - 1996)	<b>6</b>
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**Gaskets**

Turbocharger Mounting Gasket Set	1991 - 1996	VIN: C	GS33834
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**DODGE Truck**

ENGINE	CODE	YEAR	BLOCK
2987 CC (3.0L) DOHC 24V V6 MERCEDES-BENZ Diesel	EXM	2007 - 2009	1
165 CID (2.7L) DOHC 20V L5 MERCEDES-BENZ Diesel	1	2003 - 2006	2
165 CID (2.7L) DOHC 20V L5 MERCEDES-BENZ Diesel	2	2003 - 2006	2
165 CID (2.7L) DOHC 20V L5 MERCEDES-BENZ Diesel	4	2003 - 2006	2
359 CID (5.9L) OHV 24V L6 CUMMINS Diesel	C	1998 - 2009	3
359 CID (5.9L) OHV 24V L6 CUMMINS Diesel	6	1998 - 2009	3
359 CID (5.9L) OHV 24V L6 CUMMINS Diesel	7	1998 - 2009	3
359 CID (5.9L) OHV 12V L6 CUMMINS Diesel	C	1989 - 1998,2003 - 2005	4
359 CID (5.9L) OHV 12V L6 CUMMINS Diesel	D	1989 - 1998,2003 - 2005	4
359 CID (5.9L) OHV 12V L6 CUMMINS Diesel	8	1989 - 1998,2003 - 2005	4
408 CID (6.7L) OHV 24V L6 CUMMINS Diesel	ETJ	2007 - 2012	5
408 CID (6.7L) OHV 24V L6 CUMMINS Diesel	ETK	2013 - 2018	6
408 CID (6.7L) OHV 16V L6 CUMMINS Diesel	ETK	2018	7

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>2987 CC (3.0L) DOHC 24V V6 3.62" (83.0mm) MERCEDES-BENZ; Diesel</b> Engine Code: 'EXM', VIN Code: '5' (2007 - 2009)	<b>1</b>

**Turbochargers**

Turbocharger	2007 - 2009	(Condition New, With Actuator)	001 TC 18127 000
	2007 - 2009	(Condition Remanufactured, With Actuator)	001 TC 18127 100

**DODGE Truck**

PART	YEAR	NOTES	PART NUMBER
<b>1</b> (cont.)	<b>2987 CC (3.0L) DOHC 24V V6 3.62" (83.0mm) MERCEDES-BENZ; Diesel</b>	Engine Code: 'EXM', VIN Code: '5' (2007 - 2009)	<b>1</b> (cont.)

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	2007 - 2009	(Condition New)	001 TH 18127 000
<b>Turbocharger Compressor Wheel</b>	2007 - 2009	( Performance Billet Compressor Wheel)	001 TX 18127 000
<b>Turbocharger Mounting Kit</b>	2007 - 2009	(Condition New)	001 TA 18126 000
<b>Turbocharger Service Kit</b>	2007 - 2009	(Works for New)	001 TS 18126 000

<b>2</b>	<b>165 CID (2.7L) DOHC 20V L5 3.48" (87.9mm) MERCEDES-BENZ; Diesel</b>	VIN Codes: '1,2,4' (2003 - 2006)	<b>2</b>
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**Turbochargers**

<b>Turbocharger</b>	2004 - 2006	(Condition New)	001 TC 21102 000
	2004 - 2006	(Condition Remanufactured)	001 TC 21102 100
	2003	(Condition New)	001 TC 15049 000
	2003	(Condition Remanufactured)	001 TC 15049 100

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	2004 - 2006	(Condition New)	001 TH 18126 000
	2003	(Condition New)	001 TH 21102 000
<b>Turbocharger Mounting Kit</b>	2003 - 2006	(Condition New)	001 TA 15049 000
<b>Turbocharger Service Kit</b>	2003 - 2006	(Works for New)	030 TS 20113 000

<b>3</b>	<b>359 CID (5.9L) OHV 24V L6 4.72" (102.0mm) CUMMINS; Diesel</b>	VIN Codes: '6,7,C' (1998 - 2009)	<b>3</b>
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**Turbochargers**

<b>Turbocharger</b>	2005 - 2009	(Condition New, with Actuator, Family HE351CW)	286 TC 25042 000
	2005 - 2009	(Condition Remanufactured, with Actuator, Family HE351CW)	286 TC 25042 100
	2004	(Condition New, without 2001 Diesel Tracking)	286 TC 21010 000
	2004	(Condition New, without 2001 Diesel Tracking)	286 TC 21010 000
	2004	(Condition Remanufactured, without 2001 Diesel Tracking)	286 TC 21010 100
	2004	(Condition New, Cummins 600 Engine, with Actuator, Family HE351CW)	286 TC 25042 000
	2004	(Condition Remanufactured, Cummins 600 Engine, with Actuator, Family HE351CW)	286 TC 25042 100
	2003	(Condition New, Family HY35W)	286 TC 21010 000
	2003	(Condition Remanufactured, Family HY35W)	286 TC 21010 100
	2000 - 2002	(Condition New, Automatic Transmission, with Diesel Tracking, with Actuator)	286 TC 25004 000
	2000 - 2002	(Condition Remanufactured, Automatic Transmission, with Diesel Tracking, with Actuator)	286 TC 25004 100
	1999 - 2002	(Condition New, Manual Transmission, 1999.5-2002 Ram 2500/3500, For Engines Rated 230-245 HP)	286 TC 21002 000
	1999 - 2002	(Condition Remanufactured, Manual Transmission)	286 TC 21002 100
	1999 - 2000	(Condition New, Automatic Transmission, without Diesel Tracking)	286 TC 20118 000
	1999 - 2000	(Condition Remanufactured, Automatic Transmission, without Diesel Tracking)	286 TC 20118 100
	1998	(Condition New, Automatic Transmission, 1996-1998 Dodge Truck And Bus, with Federal Emissions, Engines Rated At 180 HP)	286 TC 21007 000
	1998	(Condition Remanufactured, Automatic Transmission, 1996-1998 Dodge Truck And Bus, For Engines Rated At 180 HP, with Federal Emissions)	286 TC 21007 100
	1998	(Condition New, Automatic Transmission, From 06/01/98 to 12/01/98)	286 TC 21008 000
	1998	(Condition Remanufactured, Automatic Transmission, From 06/01/98 to 12/01/98)	286 TC 21008 100
1998	(Condition Remanufactured, Automatic Transmission, with California Emissions)	286 TC 21030 100	

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	2005 - 2009	( New); VIN: C	286 TH 25042 000
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**DODGE Truck**

PART	YEAR	NOTES	PART NUMBER
<b>3 (cont.)</b>	<b>359 CID (5.9L) OHV 24V L6 4.72" (102.0mm) CUMMINS; Diesel</b>	<b>VIN Codes: '6,7,C' (1998 - 2009)</b>	<b>3 (cont.)</b>

**Kits and Add-ons**

<b>Turbocharger Cartridge (cont.)</b>	2004	(without 2001 Diesel Tracking, New); VINs: 6, C	286 TH 21010 000
	2004	(with 2001 Diesel Tracking, New); VINs: 6, C	286 TH 25042 000
	2003	(Condition New); VINs: 6, C	286 TH 21010 000
	2001 - 2002	(Condition New, Manual Transmission); VINs: 6, C	286 TH 21002 000
	2001 - 2002	(Condition New, Automatic Transmission); VINs: 6, C	286 TH 25004 000
	2000	(Condition New, Manual Transmission, without 2001 Diesel Tracking)	286 TH 21002 000
	2000	(Condition New, Automatic Transmission, with 2001 Diesel Tracking)	286 TH 25004 000
	1998 - 1999	(Condition New)	286 TH 21002 000
<b>Turbocharger Compressor Wheel</b>	2005 - 2009	( Performance Billet Compressor Wheel); VIN: C	286 TX 25042 000
	2004	(without 2001 Diesel Tracking, Performance Billet Compressor Wheel); VINs: 6, C	286 TX 21010 000
	2004	(with 2001 Diesel Tracking, Performance Billet Compressor Wheel); VINs: 6, C	286 TX 25042 000
	2003	( Performance Billet Compressor Wheel); VINs: 6, C	286 TX 21010 000
<b>Turbocharger Service Kit</b>	2005 - 2008	(Works for New); VIN: C	286 TS 20116 000
	2004	(From 6-2004, Works for New); VIN: C	286 TS 20116 000
	2002	(Works for New)	286 TS 20118 000
	2001	(Works for New)	286 TS 20118 000
	1999 - 2000	(Manual Transmission, Works for New)	286 TS 20118 000
	1998	(Automatic Transmission, From 6-1998 to 12-1998, with Federal Emissions, Works for New); VINs: 6, D   RAM 3500	286 TS 20117 000
	1998	(Manual Transmission, From 6-1998 to 12-1998, with Federal Emissions, Automatic Transmission, Works for New); VINs: 6, D   RAM 2500	286 TS 20117 000

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2003 - 2009	(Contains OE#'s: 3931824, 3919369, 3678786, 3678603(2), And 4931365); VINs: 6, C	GS33584
	1998 - 2002	VIN: 6	GS33583

<b>4</b>	<b>359 CID (5.9L) OHV 12V L6 4.72" (102.0mm) CUMMINS; Diesel</b>	<b>VIN Codes: '8,C,D' (1989 - 1998,2003 - 2005)</b>	<b>4</b>
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**Turbochargers**

<b>Turbocharger</b>	2005	(Condition New, with Actuator, Family HE351CW)	286 TC 25042 000
	2005	(Condition Remanufactured, with Actuator, Family HE351CW)	286 TC 25042 100
	2004	(Condition New, without 2001 Diesel Tracking)	286 TC 21010 000
	2004	(Condition New, without 2001 Diesel Tracking)	286 TC 21010 000
	2004	(Condition Remanufactured, without 2001 Diesel Tracking)	286 TC 21010 100
	2004	(Condition New, Cummins 600 Engine, with Actuator, Family HE351CW)	286 TC 25042 000
	2004	(Condition Remanufactured, Cummins 600 Engine, with Actuator, Family HE351CW)	286 TC 25042 100
	2003	(Condition New, Family HY35W)	286 TC 21010 000
	2003	(Condition Remanufactured, Family HY35W)	286 TC 21010 100
	1998	(Condition New, Automatic Transmission, From 06/01/98 to 12/01/98, For Engines Rated At 215 HP)	286 TC 21008 000
	1998	(Condition Remanufactured, Automatic Transmission, From 06/01/98 to 12/01/98)	286 TC 21008 100
	1997 - 1998	(Condition New, Automatic Transmission, 1996-1998 Dodge Truck And Bus, with Federal Emissions)	286 TC 21007 000
	1997 - 1998	(Condition Remanufactured, Automatic Transmission, 1996-1998 Dodge Truck And Bus, For Engines Rated At 180 HP, with Federal Emissions)	286 TC 21007 100
	1997 - 1998	(Condition New, Manual Transmission, with Federal Emissions)	286 TC 21027 000
	1997 - 1998	(Condition Remanufactured, Manual Transmission, with Federal Emissions)	286 TC 21027 100
	1996 - 1998	(Condition Remanufactured, Automatic Transmission, with California Emissions)	286 TC 21030 100
	1996	(Condition New, Manual Transmission, Vin D with Federal Emissions)	286 TC 21027 000
	1996	(Condition Remanufactured, Manual Transmission, Vin D with Federal Emissions)	286 TC 21027 100

## DODGE Truck

PART	YEAR	NOTES	PART NUMBER
<b>4</b> <b>(cont.)</b>		<b>359 CID (5.9L) OHV 12V L6 4.72" (102.0mm) CUMMINS; Diesel</b> VIN Codes: '8,C,D' (1989 - 1998,2003 - 2005)	<b>4</b> <b>(cont.)</b>

### Turbochargers

Turbocharger (cont.)	YEAR	NOTES	PART NUMBER
	1995 - 1996	(Condition New, Vin D, Automatic Transmission, 1996-1998 Dodge Truck And Bus, with Federal Emissions, Engines Rated At 180 HP)	286 TC 21007 000
	1995 - 1996	(Condition Remanufactured, Vin D, Automatic Transmission, 1996-1998 Dodge Truck And Bus, For Engines Rated At 180 HP, with Federal Emissions)	286 TC 21007 100
	1995	(Condition New, Automatic Transmission, To 01/15/1995, 1994-1995 Dodge Truck, For Automatic & Manual, For Engines Rated 160-175 HP, without 240 Horsepower Engine)	286 TC 21003 000
	1995	(Condition Remanufactured, Automatic Transmission, To 01/15/1995, without 240 Horsepower Engine)	286 TC 21003 100
	1994	(Condition New, Automatic Transmission, 1994-1995 Dodge Truck, For Engines Rated 160-175 HP, without 240 Horsepower Engine)	286 TC 21003 000
	1994	(Condition Remanufactured, Automatic Transmission, without 240 Horsepower Engine)	286 TC 21003 100
	1994	(Condition New, Automatic Transmission, with 240 Horsepower Engine)	286 TC 21029 000
	1994	(Condition Remanufactured, Automatic Transmission, with 240 Horsepower Engine)	286 TC 21029 100
	1991 - 1993	(Condition New); VIN: C	286 TC 21025 000
	1991 - 1993	(Condition Remanufactured); VIN: C	286 TC 21025 100
	1989 - 1991	(Condition New); VIN: 8	286 TC 21026 000
	1989 - 1991	(Condition Remanufactured); VIN: 8	286 TC 21026 100

### Kits and Add-ons

Turbocharger Cartridge	YEAR	NOTES	PART NUMBER
	2005	( Condition New); VIN: C	286 TH 25042 000
	2004	(Condition New, without 2001 Diesel Tracking)	286 TH 21010 000
	2004	(Condition New, with 2001 Diesel Tracking)	286 TH 25042 000
	2003	(Condition New); VINs: 6, C	286 TH 21010 000
	1996 - 1998	(Condition New); VIN: C	286 TH 21003 000
	1994 - 1995	(Condition New, without 240 Horsepower Engine); VIN: C	286 TH 21003 000
	1994 - 1995	(Condition New); VIN: C   RAM 2500	286 TH 21003 000
	1994	(Condition New); VIN: C	286 TH 21029 000
	1992 - 1993	(Condition New); VIN: C	286 TH 21025 000
	1991	(Condition New); VIN: C   D250, D350, W250	286 TH 21025 000
	1989 - 1991	(Condition New); VIN: 8   D250, D350, W250, W350	286 TH 21026 000
<b>Turbocharger Compressor Wheel</b>	2005	( Performance Billet Compressor Wheel); VIN: C	286 TX 25042 000
	2004	(without 2001 Diesel Tracking, Performance Billet Compressor Wheel)	286 TX 21010 000
	2004	(with 2001 Diesel Tracking, Performance Billet Compressor Wheel)	286 TX 25042 000
	2003	( Performance Billet Compressor Wheel); VINs: 6, C	286 TX 21010 000
<b>Turbocharger Service Kit</b>	2005	(Works for New); VIN: C	286 TS 20116 000
	2004	(From 6-2004, Works for New)	286 TS 20116 000
	1998	(Automatic Transmission, From 6-1998 to 12-1998, with Federal Emissions, Works for New)   RAM 3500	286 TS 20117 000
	1998	(Automatic Transmission, From 6-1998 to 12-1998, with Federal Emissions, Works for New)   RAM 2500	286 TS 20117 000
	1996 - 1997	(with Federal Emissions, Automatic Transmission, Works for New); VIN: C	286 TS 20117 000
	1994	(Works for New); VIN: C	286 TS 21029 000

### Gaskets

Turbocharger Mounting Gasket Set	YEAR	NOTES	PART NUMBER
	1991 - 1998		GS33582

<b>5</b>	<b>408 CID (6.7L) OHV 24V L6 4.88" (107.0mm) CUMMINS; Diesel</b> Engine Code: 'ETJ', VIN Codes: 'A,L' (2007 - 2012)	<b>5</b>
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### Turbochargers

Turbocharger	YEAR	NOTES	PART NUMBER
	2007 - 2012	(Condition Remanufactured, with Actuator pre-Flashed)	286 TC 21101 100

**DODGE Truck**

PART	YEAR	NOTES	PART NUMBER
<b>5 (cont.)</b>		<b>408 CID (6.7L) OHV 24V L6 4.88" (107.0mm) CUMMINS; Diesel</b> Engine Code: 'ETJ', VIN Codes: 'A,L' (2007 - 2012)	<b>5 (cont.)</b>

**Turbochargers**

<b>Turbocharger (cont.)</b>	2007 - 2012	(Condition Remanufactured, New OEM Actuator pre-Flashed, Truck Only, Not For Cab And Chassis)	<b>286 TC 21104 100</b>
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**Kits and Add-ons**

<b>Turbocharger Compressor Wheel</b>	2007 - 2012	( Performance Billet Compressor Wheel); VIN: L	<b>286 TX 25042 000</b>
<b>Turbocharger Service Kit</b>	2007 - 2012	(Works for New); VIN: L	<b>286 TS 21101 000</b>

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2007 - 2012	( Installation Kit, Contains OE#s: Turbocharger Mounting Gasket 5260648(1)+Drainback Gasket 5264568(1)+O-Ring 3678603(2)+O-Ring 3678786(1)+O-Ring 3883284(1)+O-Ring 3922794(2)+O-Ring 3928624(2), Multi-Layered Steel); VIN: L	<b>GS33616</b>
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<b>6</b>		<b>408 CID (6.7L) OHV 24V L6 4.88" (107.0mm) CUMMINS; Diesel</b> Engine Code: 'ETK', VIN Code: 'L' (2013 - 2018)	<b>6</b>
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**Turbochargers**

<b>Turbocharger</b>	2013 - 2018	(Condition Remanufactured, Actuator pre-Flashed, Truck Only, Not For Cab And Chassis)	<b>286 TC 21102 100</b>
	2013 - 2018	(Condition Remanufactured, Truck Only, Not For Cab And Chassis, Actuator pre-Flashed)	<b>286 TC 21102 100</b>
	2013 - 2018	(Condition Remanufactured, Cab And Chassis Only, Not For Truck, with Actuator pre-Flashed)	<b>286 TC 21103 100</b>

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2013 - 2018	( Installation Kit, Contains OE#s: Turbocharger Mounting Gasket 5260648(1)+Drainback Gasket 5264568(1)+O-Ring 3678603(2)+O-Ring 3678786(1)+O-Ring 3883284(1)+O-Ring 3922794(2)+O-Ring 3928624(2), Multi-Layered Steel)	<b>GS33616</b>
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<b>7</b>		<b>408 CID (6.7L) OHV 16V L6 4.88" (107.0mm) CUMMINS; Diesel</b> Engine Code: 'ETK', VIN Code: 'L' (2018)	<b>7</b>
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**Turbochargers**

<b>Turbocharger</b>	2018	(Condition Remanufactured, Actuator pre-Flashed, Truck Only, Not For Cab And Chassis)	<b>286 TC 21102 100</b>
	2018	(Condition Remanufactured, Truck Only, Not For Cab And Chassis, Actuator pre-Flashed)	<b>286 TC 21102 100</b>
	2018	(Condition Remanufactured, Cab And Chassis Only, Not For Truck, with Actuator pre-Flashed)	<b>286 TC 21103 100</b>

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2018	( Installation Kit, Contains OE#s: Turbocharger Mounting Gasket 5260648(1)+Drainback Gasket 5264568(1)+O-Ring 3678603(2)+O-Ring 3678786(1)+O-Ring 3883284(1)+O-Ring 3922794(2)+O-Ring 3928624(2), Multi-Layered Steel)	<b>GS33616</b>
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**FORD**

ENGINE	CODE	YEAR	BLOCK
98 CID (1.6L) DOHC 16V L4 MAZDA	6	1991 - 1994	1
97 CID (1.6L) DOHC 16V L4 FORD	X	2014 - 2018	2
91 CID (1.5L) DOHC 16V L4 FORD	D	2014 - 2018	3
97 CID (1.6L) DOHC 16V L4 FORD	R	2013 - 2014	4
164 CID (2.7L) DOHC 24V V6 FORD	P	2017 - 2018	5
122 CID (2.0L) DOHC 16V L4 FORD ELECTRIC/GAS	2	2013 - 2018	6
122 CID (2.0L) DOHC 16V L4 FORD ELECTRIC/GAS	U	2013 - 2018	6
122 CID (2.0L) DOHC 16V L4 FORD	9	2013 - 2018	7

**FORD**

ENGINE	CODE	YEAR	BLOCK
213 CID (3.5L) DOHC 24V V6 FORD	T	2010 - 2018	8
213 CID (3.5L) DOHC 24V V6 FORD FLEX	W	2010 - 2018	9
213 CID (3.5L) DOHC 24V V6 FORD FLEX	8	2010 - 2018	9
140 CID (2.3L) SOHC 8V L4 FORD	T	1983 - 1988	10
140 CID (2.3L) SOHC 8V L4 FORD	W	1983 - 1988	10

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>98 CID (1.6L) DOHC 16V L4 3.29" (78.0mm) MAZDA</b> VIN Code: '6' (1991 - 1994)	<b>1</b>

**Gaskets**

Turbocharger Mounting Gasket Set	1991 - 1994		GS33836
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<b>2</b>		<b>97 CID (1.6L) DOHC 16V L4 3.20" (79.0mm)</b> VIN Code: 'X' (2014 - 2018)	<b>2</b>
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**Gaskets**

Turbocharger Mounting Gasket Set	2014 - 2018		GS33780
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<b>3</b>		<b>91 CID (1.5L) DOHC 16V L4 3.01" (79.0mm)</b> VIN Code: 'D' (2014 - 2018)	<b>3</b>
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**Gaskets**

Turbocharger Mounting Gasket Set	2014 - 2018		GS33885
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<b>4</b>		<b>97 CID (1.6L) DOHC 16V L4 3.20" (79.0mm)</b> VIN Code: 'R' (2013 - 2014)	<b>4</b>
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**Gaskets**

Turbocharger Mounting Gasket Set	2013 - 2014		GS33780
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<b>5</b>		<b>164 CID (2.7L) DOHC 24V V6 3.27" (83.1mm)</b> VIN Code: 'P' (2017 - 2018)	<b>5</b>
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**Gaskets**

Turbocharger Mounting Gasket Set	2017 - 2018	(Services the Left or Right Turbocharger)	GS33864
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<b>6</b>		<b>122 CID (2.0L) DOHC 16V L4 3.27" (87.5mm); ELECTRIC/GAS</b> VIN Codes: '2,U' (2013 - 2018)	<b>6</b>
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**Turbochargers**

Turbocharger	2013 - 2018	(Condition New)	014 TC 22001 000
	2013 - 2018	(Condition Remanufactured)	014 TC 22001 100

<b>7</b>		<b>122 CID (2.0L) DOHC 16V L4 3.27" (87.5mm)</b> VIN Code: '9' (2013 - 2018)	<b>7</b>
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**Turbochargers**

Turbocharger	2013 - 2018	(Condition New)	014 TC 22001 000
	2013 - 2018	(Condition Remanufactured)	014 TC 22001 100

**FORD**

PART	YEAR	NOTES	PART NUMBER
<b>7</b> (cont.)		<b>122 CID (2.0L) DOHC 16V L4 3.27" (87.5mm)</b> VIN Code: '9' (2013 - 2018)	<b>7</b> (cont.)

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2017 - 2018	FOCUS, Special Service Police Sedan, TAURUS	<b>GS33756</b>
	2017 - 2018	FUSION, MKZ	<b>GS33880</b>
	2013 - 2016		<b>GS33756</b>

<b>8</b>		<b>213 CID (3.5L) DOHC 24V V6 3.41" (92.5mm)</b> VIN Code: 'T' (2010 - 2018)	<b>8</b>
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**Turbochargers**

<b>Turbocharger</b>	2010 - 2018	(Condition New, Right, with Actuator)	<b>014 TC 24024 000</b>
	2010 - 2018	(Condition New, Left, with Actuator)	<b>014 TC 24025 000</b>

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2010 - 2018	(Left Turbocharger Mounting Set)	<b>GS33743</b>
	2010 - 2018	(Right Turbocharger Mounting Set)	<b>GS33744</b>

<b>9</b>		<b>213 CID (3.5L) DOHC 24V V6 3.41" (92.5mm); FLEX</b> VIN Codes: '8,W' (2010 - 2018)	<b>9</b>
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**Turbochargers**

<b>Turbocharger</b>	2010 - 2018	(Condition New, Right, with Actuator)	<b>014 TC 24024 000</b>
	2010 - 2018	(Condition New, Left, with Actuator)	<b>014 TC 24025 000</b>

<b>10</b>		<b>140 CID (2.3L) SOHC 8V L4 3.13" (96.0mm)</b> VIN Codes: 'T,W' (1983 - 1988)	<b>10</b>
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**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	1983 - 1988		<b>GS33847</b>
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**FORD Truck**

ENGINE	CODE	YEAR	BLOCK
97 CID (1.6L) DOHC 16V L4 FORD	X	2014 - 2016	1
98 CID (1.6L) DOHC 16V L4 FORD	X	2013 - 2016	2
91 CID (1.5L) DOHC 16V L4 FORD	D	2017 - 2018	3
164 CID (2.7L) DOHC 24V V6 FORD	P	2015 - 2018	4
122 CID (2.0L) DOHC 16V L4 FORD	9	2012 - 2018	5
213 CID (3.5L) DOHC 24V V6 FORD	99G	2010 - 2019	6
213 CID (3.5L) DOHC 24V V6 FORD	C	2010 - 2019	7
213 CID (3.5L) DOHC 24V V6 FORD	8	2010 - 2019	7
363 CID (6.0L) OHV 32V V8 FORD Diesel	P	2004 - 2010	8
391 CID (6.4L) OHV 32V V8 FORD Diesel	R	2008 - 2010	9
406 CID (6.7L) OHV 32V V8 FORD Diesel	T	2011 - 2018	10
445 CID (7.3L) OHV 16V V8 INTERNATIONAL Diesel	C	1993 - 1997	11
445 CID (7.3L) OHV 16V V8 INTERNATIONAL Diesel	K	1993 - 1997	11
445 CID (7.3L) OHV 16V V8 FORD Diesel	F	1994 - 2003	12
445 CID (7.3L) OHV 16V V8 INTERNATIONAL Diesel	M	1993 - 1997	13

**FORD Truck**

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>97 CID (1.6L) DOHC 16V L4 3.20" (79.0mm) FORD</b> VIN Code: 'X' (2014 - 2016)	<b>1</b>

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2014 - 2016		<b>GS33780</b>
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<b>2</b>		<b>98 CID (1.6L) DOHC 16V L4 3.20" (79.0mm) FORD</b> VIN Code: 'X' (2013 - 2016)	<b>2</b>
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**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2013 - 2016		<b>GS33780</b>
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<b>3</b>		<b>91 CID (1.5L) DOHC 16V L4 3.01" (79.0mm) FORD</b> VIN Code: 'D' (2017 - 2018)	<b>3</b>
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**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2017 - 2018		<b>GS33885</b>
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<b>4</b>		<b>164 CID (2.7L) DOHC 24V V6 3.27" (83.1mm) FORD</b> VIN Code: 'P' (2015 - 2018)	<b>4</b>
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**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2015 - 2018	(Services the Left or Right Turbocharger)   EDGE, MKX	<b>GS33864</b>
	2015 - 2017	(Services the Left or Right Turbocharger)   F-150	<b>GS33865</b>

<b>5</b>		<b>122 CID (2.0L) DOHC 16V L4 3.27" (87.5mm) FORD</b> VIN Code: '9' (2012 - 2018)	<b>5</b>
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**Turbochargers**

<b>Turbocharger</b>	2013 - 2016	(Condition New)	<b>014 TC 22001 000</b>
	2013 - 2016	(Condition Remanufactured)	<b>014 TC 22001 100</b>
	2014 - 2015	(Condition Remanufactured)   EDGE, EXPLORER	<b>014 TC 22003 100</b>
	2013	(Condition Remanufactured, To 05/31/2012)	<b>014 TC 22002 100</b>
	2013	(Condition Remanufactured, From 09/04/2012)   EXPLORER	<b>014 TC 22003 100</b>
	2013	(Condition Remanufactured, From 05/31/2012)   EDGE	<b>014 TC 22003 100</b>
	2012	(Condition Remanufactured)	<b>014 TC 22002 100</b>

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2017 - 2018		<b>GS33880</b>
	2016	ESCAPE, MKC, MKT	<b>GS33756</b>
	2015 - 2016	EDGE	<b>GS33880</b>
	2015	ESCAPE, EXPLORER, MKC, MKT	<b>GS33756</b>
	2012 - 2014		<b>GS33756</b>

<b>6</b>		<b>213 CID (3.5L) DOHC 24V V6 3.41" (92.5mm) FORD</b> Engine Code: '99G', VIN Codes: 'G,T' (2010 - 2019)	<b>6</b>
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**Turbochargers**

<b>Turbocharger</b>	2010 - 2019	(Condition New, Right, with Actuator)	<b>014 TC 24024 000</b>
	2010 - 2019	(Condition New, Left, with Actuator)	<b>014 TC 24025 000</b>
	2013 - 2018	(Condition New, Right)	<b>014 TC 24022 000</b>
	2013 - 2018	(Condition Remanufactured, Right, )	<b>014 TC 24022 100</b>

**FORD Truck**

PART	YEAR	NOTES	PART NUMBER
<b>6</b> <b>(cont.)</b>	<b>213 CID (3.5L) DOHC 24V V6 3.41" (92.5mm) FORD</b>	<b>Engine Code: '99G', VIN Codes: 'G,T' (2010 - 2019)</b>	<b>6</b> <b>(cont.)</b>

**Turbochargers**

<b>Turbocharger (cont.)</b>	2013 - 2018	(Condition New, Left)	014 TC 24023 000
	2013 - 2018	(Condition Remanufactured, Left)	014 TC 24023 100
	2011 - 2012	(Condition New, Left)	014 TC 24020 000
	2011 - 2012	(Condition Remanufactured, Left)	014 TC 24020 100
	2011 - 2012	(Condition New, Right)	014 TC 24021 000
	2011 - 2012	(Condition Remanufactured, Right)	014 TC 24021 100

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	2011 - 2012	(Condition New, Left)	014 TH 24020 000
	2011 - 2012	(Condition New, Right)	014 TH 24021 000
<b>Turbocharger Service Kit</b>	2011 - 2012	(Left Side, Works for New)	014 TS 24020 000
	2011 - 2012	(Right Side, Works for New)	014 TS 24021 000

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2013 - 2018	(Left Turbocharger Mounting Set); VIN: T	GS33741
	2013 - 2018	(Right Turbocharger Mounting Set); VIN: T	GS33742
	2010 - 2018	(Left Turbocharger Mounting Set); VIN: T	GS33743
	2010 - 2018	(Right Turbocharger Mounting Set); VIN: T	GS33744
	2011 - 2012	(Left Turbocharger Mounting Set); VIN: T	GS33739
	2011 - 2012	(Right Turbocharger Mounting Set); VIN: T	GS33740

<b>7</b>	<b>213 CID (3.5L) DOHC 24V V6 3.41" (92.5mm) FORD</b>	<b>VIN Codes: '8,C' (2010 - 2019)</b>	<b>7</b>
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**Turbochargers**

<b>Turbocharger</b>	2010 - 2019	(Condition New, Right, with Actuator)	014 TC 24024 000
	2010 - 2019	(Condition New, Left, with Actuator)	014 TC 24025 000
	2015 - 2017	(Condition New, Right)	014 TC 24022 000
	2015 - 2017	(Condition Remanufactured, Right)	014 TC 24022 100
	2015 - 2017	(Condition New, Left)	014 TC 24023 000
	2015 - 2017	(Condition Remanufactured, Left)	014 TC 24023 100

<b>8</b>	<b>363 CID (6.0L) OHV 32V V8 4.13" (95.0mm) FORD; Diesel</b>	<b>VIN Code: 'P' (2004 - 2010)</b>	<b>8</b>
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**Turbochargers**

<b>Turbocharger</b>	2005 - 2010	(Condition New, Turbo Only)	014 TC 26160 000
	2005 - 2010	(Condition Remanufactured, Turbo Only)	014 TC 26160 100
	2005	(Condition Remanufactured, To Engine # 6344942, Turbo Only)	014 TC 26159 100
	2005	(Condition New, From Engine # 6344943, Turbo Only)	014 TC 26160 000
	2005	(Condition Remanufactured, From Engine # 6344943, Turbo Only)	014 TC 26160 100
	2004 - 2005	(Condition New, From 09/29/03)	015 TC 21006 000
	2004 - 2005	(Condition Remanufactured, From 09/29/03)	015 TC 21006 100
	2004	(Condition Remanufactured, From Engine # 094581 & 6155637, Turbo Only)	014 TC 26159 100
	2004	(Condition Remanufactured, Turbo Only)	014 TC 26159 100
	2004	(Condition Remanufactured, From 09/29/03)	015 TC 21006 100
	2004	(Condition New, Before 09/29/03)	015 TC 21009 000

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	2006 - 2007	(Condition New)	014 TH 26160 000
	2005	(Condition New, To 11/03/2004)	014 TH 26159 000
	2005	(Condition New, From 11/04/2004)	014 TH 26160 000



**FORD Truck**

PART	YEAR	NOTES	PART NUMBER
<b>8 (cont.)</b>		<b>363 CID (6.0L) OHV 32V V8 4.13" (95.0mm) FORD; Diesel</b> VIN Code: 'P' (2004 - 2010)	<b>8 (cont.)</b>

**Kits and Add-ons**

<b>Turbocharger Cartridge (cont.)</b>	2004	(Condition New)   EXCURSION, F-250, F-350, F-450, F-550	014 TH 26159 000
	2004	(Condition New, From 09/29/2003)   E-350, E-450	014 TH 26159 000
<b>Turbocharger Compressor Wheel</b>	2006 - 2007	( Performance Billet Compressor Wheel)	014 TX 26160 000
	2005	(From 11/04/2004, Performance Billet Compressor Wheel)	014 TX 26160 000
	2005	(Before 11/04/2004, Performance Billet Compressor Wheel)	015 TX 21006 000
	2004	( Performance Billet Compressor Wheel)   EXCURSION, F-250, F-350, F-450, F-550	015 TX 21006 000
<b>Turbocharger Service Kit</b>	2004	(From 09/29/2003, Performance Billet Compressor Wheel)   E-350, E-450	015 TX 21006 000
	2004 - 2010	(Works for New)	014 TS 26159 100
<b>Turbocharger Vane Position Solenoid</b>	2004 - 2005	(To Engine Number 094580 or To Engine Number 6155636, Works for New)	015 TS 21006 100
	2004 - 2007	(Condition New)	014 TX 20001 000

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2004 - 2010	(Gasket, Oil Feed Line 1836770C3(1)+O-Ring 1818404C2(2)+O-Ring 1844579C1(1))	GS33576
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<b>9</b>	<b>391 CID (6.4L) OHV 32V V8 4.13" (98.0mm) FORD; Diesel</b> VIN Code: 'R' (2008 - 2010)	<b>9</b>
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**Turbochargers**

<b>Turbocharger</b>	2008 - 2010	(Condition New, Pressure Low)	014 TC 21101 000
	2008 - 2010	(Condition Remanufactured, Pressure Low)	014 TC 21101 100
	2008 - 2010	(Condition New, Without Actuator, Pressure High)	014 TC 21102 000
	2008 - 2010	(Condition Remanufactured, Without Actuator, Pressure High)	014 TC 21102 100
	2008 - 2010	(Condition New, Complete Assembly, Without Actuator, Pressure High & Low)	014 TC 21103 000
	2008 - 2010	(Condition Remanufactured, Complete Assembly, Without Actuator, Pressure High & Low)	014 TC 21103 100
	2008 - 2010	(Condition Remanufactured, High Pressure Turbo, With Actuator)	014 TC 21104 100
	2008 - 2010	(Condition Remanufactured, Complete Assembly, With Actuator, Pressure High & Low)	014 TC 21105 100

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	2008 - 2010	(Condition New, Low Pressure)	014 TH 21101 000
	2008 - 2010	(Condition New, High Pressure)	014 TH 21102 000
<b>Turbocharger Compressor Wheel</b>	2008 - 2010	( Performance Billet Compressor Wheel, Low Pressure Turbo)	014 TX 21101 000
	2008 - 2010	( Performance Billet Compressor Wheel, High Pressure Turbo)	014 TX 21102 000
<b>Turbocharger Service Kit</b>	2008 - 2010	(Works for Service Kit For High Pressure Turbocharger)	014 TS 20136 000
	2008 - 2010	(Works for Service Kit For Low Pressure Turbocharger)	014 TS 20145 000
	2008 - 2010	(Works for Service Kit For High Pressure And Low Pressure Turbocharger)	014 TS 21101 100

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2008 - 2010	( Molded Rubber)	GS33566
	2008 - 2010	( Master Set Contains All Miscellaneous Gaskets and Seals Needed for Turbocharger Installation, Molded Rubber)	GS33566A

<b>10</b>	<b>406 CID (6.7L) OHV 32V V8 4.25" (99.1mm) FORD; Diesel</b> VIN Code: 'T' (2011 - 2018)	<b>10</b>
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**Turbochargers**

<b>Turbocharger</b>	2011 - 2016	(Condition Remanufactured)	014 TC 25002 100
	2011 - 2014	(Condition Remanufactured, Exc. Cab & Chassis)	014 TC 25001 100
	2011 - 2014	(Condition Remanufactured)   F-250	014 TC 25001 100

**FORD Truck**

PART	YEAR	NOTES	PART NUMBER
<b>10</b> <b>(cont.)</b>		<b>406 CID (6.7L) OHV 32V V8 4.25" (99.1mm) FORD; Diesel</b> VIN Code: 'T' (2011 - 2018)	<b>10</b> <b>(cont.)</b>

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2015 - 2018	( Includes Turbocharger V-Band Clamps)	<b>GS33789</b>
	2011 - 2014	( Includes Turbocharger V-Band Clamps)	<b>GS33692</b>

<b>11</b>		<b>445 CID (7.3L) OHV 16V V8 4.18" (104.4mm) INTERNATIONAL; Diesel</b> VIN Codes: 'C,K' (1993 - 1997)	<b>11</b>
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**Turbochargers**

<b>Turbocharger</b>	1993 - 1994	(Condition Remanufactured, Vin K)	<b>014 TC 24004 100</b>
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**Kits and Add-ons**

<b>Turbocharger Exhaust Adapter</b>	1994 - 1997	(Condition Remanufactured, without Mounting Pedestal, w/o Wastegate)	<b>014 TX 24007 100</b>
<b>Turbocharger Mount</b>	1994	(Condition Remanufactured); VIN: K	<b>144 TP 24007 100</b>
<b>Turbocharger Service Kit</b>	1993 - 1994	(Works for New); VIN: C	<b>014 TS 24004 000</b>

<b>12</b>		<b>445 CID (7.3L) OHV 16V V8 4.18" (104.4mm) FORD; Diesel</b> VIN Code: 'F' (1994 - 2003)	<b>12</b>
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**Turbochargers**

<b>Turbocharger</b>	1999 - 2003	(Condition New, without Mounting Pedestal, w/GTP Hi Flow Turbo and Cast Compressor Wheel)	<b>014 TC 24008 000</b>
	1999 - 2003	(Condition Remanufactured, without Mounting Pedestal, w/GTP Hi Flow Turbo and Cast Compressor Wheel)	<b>014 TC 24008 100</b>
	1999 - 2003	(Condition New, w/Super GTP38 Performance Stage 2 Turbo, Cast aluminium compressor wheel, without Mounting Pedestal)	<b>014 TC 24009 000</b>
	1999 - 2003	(Condition New, Billet Compressor Wheel, w/GTP38 Hi Flow Turbo, without Mounting Pedestal)	<b>014 TC 24010 000</b>
	1999 - 2003	(Condition Remanufactured, w/GTP38 Hi Flow Turbo, without Mounting Pedestal, Billet Compressor Wheel)	<b>014 TC 24010 100</b>
	1999 - 2003	(Condition New, w/Super GTP38 Performance Stage 2 Turbo, without Mounting Pedestal, Billet Compressor Wheel)	<b>014 TC 24011 000</b>
	1999 - 2003	(Condition New, Without Mounting Pedestal)	<b>014 TC 24013 000</b>
	1999 - 2003	(Condition Remanufactured, Without Mounting Pedestal)	<b>014 TC 24013 100</b>
	1999 - 2003	(Condition New, without Mounting Pedestal, with Exhaust Back Pressure Valve)	<b>015 TC 21003 000</b>
	1999 - 2003	(Condition Remanufactured, without Mounting Pedestal, with Exhaust Back Pressure Valve, )	<b>015 TC 21003 100</b>
	2002	(Condition New, Billet Compressor Wheel, w/GTP38 Hi Flow Turbo, without Mounting Pedestal)	<b>014 TC 24010 000</b>
	1999	(Condition New, To Engine # 896,812, with Exhaust Housing, without Mounting Pedestal)	<b>014 TC 24005 000</b>
	1999	(Condition Remanufactured, To Engine # 896,812, with Exhaust Housing, without Mounting Pedestal)	<b>014 TC 24005 100</b>
	1999	(Condition Remanufactured, 1998.5 to 1999.5, Turbo with Pedestal)	<b>014 TC 24006 100</b>
	1999	(Condition Remanufactured, From Engine #(s) 896,813, w/GTP38 Hi Flow Turbo, without Mounting Pedestal, Billet Compressor Wheel)	<b>014 TC 24010 100</b>
	1998 - 1999	(Condition Remanufactured, w/ Pedestal, A/R Rating 1.15, Family TP38)	<b>014 TC 24007 100</b>
	1995 - 1997	(Condition Remanufactured, w/ Pedestal, A/R Rating 1.15, Family TP38)	<b>014 TC 24007 100</b>
1995 - 1997	(Condition Remanufactured, w/ Pedestal, A/R Rating 1.15, Family TP38)	<b>014 TC 24007 100</b>	
1994 - 1997	(Condition New, without Mounting Pedestal, w/o Mounting Pedestal)	<b>014 TC 26158 000</b>	

**FORD Truck**

PART	YEAR	NOTES	PART NUMBER
<b>12 (cont.)</b>	<b>445 CID (7.3L) OHV 16V V8 4.18" (104.4mm) FORD; Diesel</b>		<b>12 (cont.)</b>
	VIN Code: 'F' (1994 - 2003)		

**Turbochargers**

<b>Turbocharger (cont.)</b>	1994 - 1997	(Condition Remanufactured, without Wastegate and Mounting Pedestal, A/R Rating 1.15, Family TP38)	<b>144 TC 24007 100</b>
	1994 - 1997	(Condition New, 1994 to 1998.5, Turbo Only, A/R Rating 1.00, Family TP38)	<b>144 TC 24008 000</b>
	1994 - 1997	(Condition New, A/R Rating 0.84, Family TP38, Without Mounting Pedestal)	<b>144 TC 24010 000</b>
	1994 - 1997	(Condition Remanufactured, A/R Rating 0.84, Family TP38, Without Mounting Pedestal)	<b>144 TC 24010 100</b>

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	2000 - 2003	(Condition New)	<b>015 TH 21003 000</b>
	2000 - 2003	(Condition New, w/o GTP38 Hi Flow Turbo)	<b>015 TH 21003 000</b>
	2000 - 2003	(Condition New, w/GTP38 Hi Flow Turbo)	<b>015 TH 21004 000</b>
	1999	(Condition New, w/Exhaust Housing, To Engine # 896,812, Without Wastegate and Mounting Pedestal)	<b>014 TH 24005 000</b>
	1999	(Condition New, From Engine #(s) 896,813, w/Cold Weather Package)	<b>015 TH 21003 000</b>
	1999	(Condition New, From 12/06/1998)   E-350, ECONOLINE SUPER DUTY	<b>015 TH 21003 000</b>
	1999	(New, w/o GTP38 Hi Flow Turbo, From Engine #(s) 896,813, w/Cold Weather Package)	<b>015 TH 21003 000</b>
	1999	(Condition New, From Engine #(s) 896,813, w/GTP38 Hi Flow Turbo)	<b>015 TH 21004 000</b>
	1994 - 1997	(Condition New, Without Wastegate and Mounting Pedestal)	<b>014 TH 24005 000</b>
<b>Turbocharger Compressor Wheel</b>	2000 - 2003	(Performance Billet Compressor Wheel, Without Wastegate)	<b>015 TX 21103 000</b>
	2000 - 2003	(w/o GTP38 Hi Flow Turbo, Performance Billet Compressor Wheel, Without Wastegate)	<b>015 TX 21103 000</b>
	1999	(From Engine #(s) 896,813, w/Cold Weather Package, Performance Billet Compressor Wheel, Without Wastegate)	<b>015 TX 21103 000</b>
	1999	(From 12/06/1998, Performance Billet Compressor Wheel, Without Wastegate)	<b>015 TX 21103 000</b>
	1999	(w/o GTP38 Hi Flow Turbo, From Engine #(s) 896,813, w/Cold Weather Package, Performance Billet Compressor Wheel, Without Wastegate)	<b>015 TX 21103 000</b>
	1994 - 1997	(Performance Billet Compressor Wheel, Without Wastegate)	<b>015 TX 21103 000</b>
<b>Turbocharger Exhaust Adapter</b>	2000 - 2003	(Condition New, Without Wastegate and Mounting Pedestal)	<b>015 TX 21003 000</b>
	2000 - 2003	(Condition Remanufactured, Without Wastegate and Mounting Pedestal)	<b>015 TX 21003 100</b>
	2000 - 2003	(Condition New, With Wastegate, Without Mounting Pedestal)	<b>015 TX 21004 000</b>
	1999	(Condition New, From Engine #(s) 896,813, Without Wastegate and Mounting Pedestal)	<b>015 TX 21003 000</b>
	1999	(Condition Remanufactured, From Engine #(s) 896,813, Without Wastegate and Mounting Pedestal)	<b>015 TX 21003 100</b>
	1999	(Condition New, From Engine #(s) 896,813, With Wastegate, Without Mounting Pedestal)	<b>015 TX 21004 000</b>
	1994 - 1997	(Condition Remanufactured, without Mounting Pedestal, w/o Wastegate)	<b>014 TX 24007 100</b>
<b>Turbocharger Mount</b>	2000 - 2003	(Condition Remanufactured, With Actuator)	<b>015 TP 21003 100</b>
	2000 - 2003	(Condition New, Without Actuator)	<b>015 TP 21004 000</b>
	1999 - 2003	(Condition New, 1999.5 to 2003)	<b>015 TP 21003 000</b>
	1999	(Condition Remanufactured, 1998.5 to 1999.5)	<b>014 TP 24005 100</b>
	1999	(Condition Remanufactured, From Engine #(s) 896,813, With Actuator)	<b>015 TP 21003 100</b>
	1999	(Condition Remanufactured, From 12/06/1998, With Actuator)   E-350, ECONOLINE SUPER DUTY	<b>015 TP 21003 100</b>
	1999	(Condition New, From Engine #(s) 896,813, Without Actuator)	<b>015 TP 21004 000</b>
	1999	(Condition New, From 12/06/1998, Without Actuator)   E-350, ECONOLINE SUPER DUTY	<b>015 TP 21004 000</b>
	1995 - 1999	(Condition Remanufactured)	<b>144 TP 24007 100</b>
<b>Turbocharger Service Kit</b>	2002 - 2003	(Works for New)   E-350, E-450, E-550 Super Duty, EXCURSION, F-550	<b>014 TS 20116 000</b>
	2000 - 2003	(w/o GTP38 Hi Flow Turbo, Works for New)   F-250, F-350, F-450	<b>014 TS 20116 000</b>
	2000 - 2001	(Works for New)   E-350, E-450, EXCURSION, F-550	<b>014 TS 20116 000</b>
	1999	(From Engine #(s) 896,813, w/Cold Weather Package, Works for New)	<b>014 TS 20116 000</b>
	1999	(From 12/06/1998, Works for New)   E-350, ECONOLINE SUPER DUTY	<b>014 TS 20116 000</b>
	1999	(w/o GTP38 Hi Flow Turbo, From Engine #(s) 896,813, w/Cold Weather Package, Works for New)	<b>014 TS 20116 000</b>

**FORD Truck**

PART	YEAR	NOTES	PART NUMBER
<b>12 (cont.)</b>		<b>445 CID (7.3L) OHV 16V V8 4.18" (104.4mm) FORD; Diesel</b> VIN Code: 'F' (1994 - 2003)	<b>12 (cont.)</b>

**Kits and Add-ons**

<b>Turbocharger Service Kit (cont.)</b>	1999	(w/Exhaust Housing, To Engine # 896,812, Works for New, Without Wastegate and Mounting Pedestal)	<b>014 TS 20117 000</b>
	1994 - 1997	(Works for New, Without Wastegate and Mounting Pedestal)	<b>014 TS 20117 000</b>

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	1994 - 2003	( Steel, Includes Turbo Mounting Gasket 1822120C1(1)+Drain Back Gasket 1831227C1(1)+O-Ring 1815561C1(2)+O-Ring 1815560C1(2)+O-Ring 181872C1 (1))	<b>GS33656</b>
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<b>13</b>		<b>445 CID (7.3L) OHV 16V V8 4.18" (104.4mm) INTERNATIONAL; Diesel</b> VIN Code: 'M' (1993 - 1997)	<b>13</b>
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**Turbochargers**

<b>Turbocharger</b>	1993	(Condition Remanufactured, Vin K)	<b>014 TC 24004 100</b>
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**Kits and Add-ons**

<b>Turbocharger Exhaust Adapter</b>	1994 - 1997	(Condition Remanufactured, without Mounting Pedestal, w/o Wastegate)	<b>014 TX 24007 100</b>
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**FREIGHTLINER Truck**

ENGINE	CODE	YEAR	BLOCK
2987 CC (3.0L) DOHC 24V V6 MERCEDES-BENZ Diesel	EXM	2007 - 2009	1
165 CID (2.7L) DOHC 20V L5 MERCEDES-BENZ Diesel	1	2002 - 2006	2
165 CID (2.7L) DOHC 20V L5 MERCEDES-BENZ Diesel	2	2002 - 2006	2
165 CID (2.7L) DOHC 20V L5 MERCEDES-BENZ Diesel	4	2002 - 2006	2

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>2987 CC (3.0L) DOHC 24V V6 3.62" (83.0mm) MERCEDES-BENZ; Diesel</b> Engine Code: 'EXM', VIN Code: '5' (2007 - 2009)	<b>1</b>

**Turbochargers**

<b>Turbocharger</b>	2007 - 2009	(Condition New, With Actuator)	<b>001 TC 18127 000</b>
	2007 - 2009	(Condition Remanufactured)	<b>001 TC 18127 100</b>

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	2007 - 2009	(Condition New)	<b>001 TH 18127 000</b>
<b>Turbocharger Compressor Wheel</b>	2007 - 2009	( Performance Billet Compressor Wheel)	<b>001 TX 18127 000</b>
<b>Turbocharger Service Kit</b>	2007 - 2009	(Works for New)	<b>001 TS 18126 000</b>

<b>2</b>		<b>165 CID (2.7L) DOHC 20V L5 3.48" (87.9mm) MERCEDES-BENZ; Diesel</b> VIN Codes: '1,2,4' (2002 - 2006)	<b>2</b>
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**Turbochargers**

<b>Turbocharger</b>	2004 - 2006	(Condition New)	<b>001 TC 21102 000</b>
	2004 - 2006	(Condition Remanufactured)	<b>001 TC 21102 100</b>
	2002 - 2003	(Condition New)	<b>001 TC 15049 000</b>
	2002 - 2003	(Condition Remanufactured)	<b>001 TC 15049 100</b>

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	2004 - 2006	(Condition New)	<b>001 TH 18126 000</b>
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**FREIGHTLINER Truck**

PART	YEAR	NOTES	PART NUMBER
<b>2 (cont.)</b>		<b>165 CID (2.7L) DOHC 20V L5 3.48" (87.9mm) MERCEDES-BENZ; Diesel</b> VIN Codes: '1,2,4' (2002 - 2006)	<b>2 (cont.)</b>

**Kits and Add-ons**

<b>Turbocharger Cartridge (cont.)</b>	2002 - 2003	(Condition New)	001 TH 21102 000
<b>Turbocharger Mounting Kit</b>	2002 - 2006	(Condition New)	001 TA 15049 000
<b>Turbocharger Service Kit</b>	2002 - 2006	(Works for New)	030 TS 20113 000

**GMC**

ENGINE	CODE	YEAR	BLOCK
83 CID (1.4L) DOHC 16V L4 GENERAL MOTORS	LUJ	2011 - 2019	1
83 CID (1.4L) DOHC 16V L4 GENERAL MOTORS	LUV	2011 - 2019	1
122 CID (2.0L) DOHC 16V L4 GENERAL MOTORS	LHU	2007 - 2016	2
122 CID (2.0L) DOHC 16V L4 GENERAL MOTORS	LNF	2007 - 2016	2
229 CID (3.8L) OHV 12V V6 GENERAL MOTORS	K	1980 - 1981	3
231 CID (3.8L) OHV 12V V6 GENERAL MOTORS	A	1980 - 1981	4
231 CID (3.8L) OHV 12V V6 GENERAL MOTORS	3	1980 - 1981,1984 - 1987,1989	5
231 CID (3.8L) OHV 12V V6 GENERAL MOTORS	7	1980 - 1981,1984 - 1987,1989	5
231 CID (3.8L) OHV 12V V6 GENERAL MOTORS	9	1980 - 1981,1984 - 1987,1989	5

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>83 CID (1.4L) DOHC 16V L4 3.25" (72.5mm) GENERAL MOTORS</b> Engine Codes: 'LUJ,LUV', VIN Codes: '9,B,C' (2011 - 2019)	<b>1</b>

**Turbochargers**

<b>Turbocharger</b>	2011 - 2019	(Condition New)	011 TC 18989 000
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**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2011 - 2019		GS33909
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<b>2</b>		<b>122 CID (2.0L) DOHC 16V L4 3.39" (86.0mm) GENERAL MOTORS</b> Engine Codes: 'LHU,LNF', VIN Codes: 'M,V,X' (2007 - 2016)	<b>2</b>
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**Turbochargers**

<b>Turbocharger</b>	2007 - 2016	(Condition New)	011 TC 20001 000
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**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2007 - 2016		GS33910
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<b>3</b>		<b>229 CID (3.8L) OHV 12V V6 3.48" (94.9mm) GENERAL MOTORS</b> VIN Code: 'K' (1980 - 1981)	<b>3</b>
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**Turbochargers**

<b>Turbocharger</b>	1980 - 1981	(Condition Remanufactured)	011 TC 20002 100
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<b>4</b>		<b>231 CID (3.8L) OHV 12V V6 3.40" (96.5mm) GENERAL MOTORS</b> VIN Code: 'A' (1980 - 1981)	<b>4</b>
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**Turbochargers**

<b>Turbocharger</b>	1980 - 1981	(Condition Remanufactured)	011 TC 20002 100
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**GMC**

PART	YEAR	NOTES	PART NUMBER
<b>5</b>	<b>231 CID (3.8L) OHV 12V V6 3.40" (96.5mm) GENERAL MOTORS</b> VIN Codes: '3,7,9' (1980 - 1981,1984 - 1987,1989)		<b>5</b>
<b>Turbochargers</b>			
Turbocharger	1980 - 1981	(Condition Remanufactured)	011 TC 20002 100
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	1989		GS33283
	1986 - 1987	VIN: 7	GS33283
	1984 - 1985	VIN: 9	GS33835

**GMC Truck**

ENGINE	CODE	YEAR	BLOCK
83 CID (1.4L) DOHC 16V L4 GENERAL MOTORS	LUJ	2013 - 2019	1
83 CID (1.4L) DOHC 16V L4 GENERAL MOTORS	LUV	2013 - 2019	1
395 CID (6.5L) OHV 16V V8 GENERAL MOTORS Diesel	L65	1992 - 2004	2
403 CID (6.6L) OHV 32V V8 GENERAL MOTORS Diesel	LBZ	2006 - 2007	3
395 CID (6.5L) OHV 16V V8 GENERAL MOTORS Diesel	P	1994 - 1995,1997 - 1999	4
395 CID (6.5L) OHV 16V V8 GENERAL MOTORS Diesel	Y	1994 - 1995,1997 - 1999	4
403 CID (6.6L) OHV 32V V8 GENERAL MOTORS Diesel	LB7	2001 - 2005	5
400 CID (6.6L) OHV 32V V8 GENERAL MOTORS Diesel	3	2006	6
403 CID (6.6L) OHV 32V V8 GENERAL MOTORS Diesel	LLY	2004 - 2007	7
403 CID (6.6L) OHV 32V V8 GENERAL MOTORS Diesel	LGH	2010 - 2016	8
403 CID (6.6L) OHV 32V V8 GENERAL MOTORS Diesel	LMM	2007 - 2010	9
403 CID (6.6L) OHV 32V V8 GENERAL MOTORS Diesel	LML	2011 - 2016	10

PART	YEAR	NOTES	PART NUMBER
<b>1</b>	<b>83 CID (1.4L) DOHC 16V L4 3.25" (72.5mm) GENERAL MOTORS</b> Engine Codes: 'LUJ,LUV', VIN Codes: '8,B' (2013 - 2019)		<b>1</b>
<b>Turbochargers</b>			
Turbocharger	2013 - 2019	(Condition New)	011 TC 18989 000
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2013 - 2019		GS33909

<b>2</b>	<b>395 CID (6.5L) OHV 16V V8 3.82" (103.0mm) GENERAL MOTORS; Diesel</b> Engine Code: 'L65', VIN Codes: 'F,S' (1992 - 2004)		<b>2</b>
<b>Turbochargers</b>			
Turbocharger	2002 - 2004	(Condition Remanufactured, 1995-2001 Military Hummer Only)	599 TC 21003 100
	2002 - 2004	(Condition New, Military Models, with Actuator)	599 TC 21010 000
	1996 - 2002	(Condition New, Right Hand Drive, )	599 TC 21002 000
	1996 - 2002	(Condition Remanufactured, Right Hand Drive)	599 TC 21002 100
	2000	(Condition Remanufactured, Left Hand Drive)	599 TC 21102 100
	1997 - 2000	(Condition New, Left Hand Drive)	599 TC 21102 000
	1997 - 2000	(Condition Remanufactured, Left Hand Drive)	599 TC 21102 100
	1996	(Condition New, Right Hand Drive)	599 TC 21002 000
	1995 - 1996	(Condition New, with Actuator, Family GM-5)	599 TC 21101 000
	1994 - 1996	(Condition New)	599 TC 24521 000
	1994 - 1996	(Condition Remanufactured)	599 TC 24521 100

PART	YEAR	NOTES	PART NUMBER
<b>2</b> (cont.)		<b>395 CID (6.5L) OHV 16V V8 3.82" (103.0mm) GENERAL MOTORS; Diesel</b> Engine Code: 'L65', VIN Codes: 'F,S' (1992 - 2004)	<b>2</b> (cont.)

**Turbochargers**

Turbocharger (cont.)	1993	(Condition Remanufactured)	599 TC 24523 100
	1992	(Condition New, with Actuator)	599 TC 24522 000
	1992	(Condition Remanufactured, with Actuator)	599 TC 24522 100

**Kits and Add-ons**

Turbocharger Cartridge	2000 - 2004	(Condition New)   EXPRESS, H1, SAVANA	599 TH 21002 000
	2000	(Condition New)   C2500, C3500, K2500, K3500	599 TH 21102 000
	1998 - 1999	(Condition New, Vin S)	599 TH 21102 000
	1997 - 1999	(Condition New)   Exc. BLAZER, EXPRESS, H1, SAVANA	599 TH 21102 000
	1996 - 1999	(Condition New)	599 TH 21002 000
	1997	(Condition New, Vin S)	599 TH 21102 000
	1995 - 1996	(Condition New)   C1500, C1500 SUBURBAN, C2500, C2500 SUBURBAN, C3500, K1500, K2500, K3500, TAHOE, YUKON	599 TH 24522 000
	1992 - 1994	(Condition New)	599 TH 24522 000

**Gaskets**

Turbocharger Mounting Gasket Set	1992 - 2000		GS33911
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<b>3</b>		<b>403 CID (6.6L) OHV 32V V8 3.90" (103.0mm) GENERAL MOTORS; Diesel</b> Engine Code: 'LBZ', VIN Code: 'D' (2006 - 2007)	<b>3</b>
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**Turbochargers**

Turbocharger	2006 - 2007	(Condition New, w/o Vane Position Sensor)	599 TC 21006 000
	2006 - 2007	(Condition Remanufactured, w/o Vane Position sensor)	599 TC 21006 100
	2006 - 2007	(Condition Remanufactured, w/Vane Position sensor)	599 TC 21016 100

**Kits and Add-ons**

Turbocharger Cartridge	2006 - 2007	( New); VINs: 2, D	599 TH 21006 000
Turbocharger Compressor Wheel	2006 - 2007	( Performance Billet Compressor Wheel); VINs: 2, D	599 TX 21006 000
Turbocharger Service Kit	2006 - 2007	(Works for New)	599 TS 21005 000

**Gaskets**

Turbocharger Mounting Gasket Set	2006 - 2007		GS33678
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<b>4</b>		<b>395 CID (6.5L) OHV 16V V8 3.82" (103.0mm) GENERAL MOTORS; Diesel</b> VIN Codes: 'P,Y' (1994 - 1995,1997 - 1999)	<b>4</b>
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**Turbochargers**

Turbocharger	1995	(Condition New, Family GM-5)	599 TC 21101 000
	1994 - 1995	(Condition New, Family GM-4)	599 TC 24521 000
	1994 - 1995	(Condition Remanufactured, Family GM-4)	599 TC 24521 100

**Kits and Add-ons**

Turbocharger Cartridge	1997 - 1999	(Condition New)	599 TH 21102 000
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<b>5</b>		<b>403 CID (6.6L) OHV 32V V8 3.90" (103.0mm) GENERAL MOTORS; Diesel</b> Engine Code: 'LB7', VIN Code: '1' (2001 - 2005)	<b>5</b>
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**Turbochargers**

Turbocharger	2002 - 2004	(Condition Remanufactured, with Federal Emissions, with Actuator, Family GT-601)	599 TC 21005 100
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**GMC Truck**

PART	YEAR	NOTES	PART NUMBER
<b>5 (cont.)</b>		<b>403 CID (6.6L) OHV 32V V8 3.90" (103.0mm) GENERAL MOTORS; Diesel</b> Engine Code: 'LB7', VIN Code: '1' (2001 - 2005)	<b>5 (cont.)</b>

**Turbochargers**

<b>Turbocharger (cont.)</b>	2001 - 2004	(Condition Remanufactured, with California Emissions)	<b>599 TC 21004 100</b>
	2001 - 2004	(Condition New, with Federal Emissions)	<b>599 TC 21005 000</b>
	2001	(Condition Remanufactured, with Federal Emissions)	<b>599 TC 21005 100</b>

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	2002 - 2004	(Condition New)	<b>599 TH 21005 000</b>
<b>Turbocharger Compressor Wheel</b>	2002 - 2004	( Performance Billet Compressor Wheel)	<b>599 TX 21005 000</b>
<b>Turbocharger Service Kit</b>	2002 - 2005	(Works for New)	<b>599 TS 21005 000</b>
	2004	(with California Emissions, Works for New)	<b>599 TS 21005 000</b>

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2001 - 2005		<b>GS33678</b>
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<b>6</b>		<b>400 CID (6.6L) OHV 32V V8 3.90" (103.0mm) GENERAL MOTORS; Diesel</b> VIN Code: '3' (2006)	<b>6</b>
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**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2006		<b>GS33678</b>
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<b>7</b>		<b>403 CID (6.6L) OHV 32V V8 3.90" (103.0mm) GENERAL MOTORS; Diesel</b> Engine Code: 'LLY', VIN Code: '2' (2004 - 2007)	<b>7</b>
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**Turbochargers**

<b>Turbocharger</b>	2006 - 2007	(Condition New, w/o Vane Position Sensor)	<b>599 TC 21006 000</b>
	2006 - 2007	(Condition Remanufactured, w/o Vane Position sensor)	<b>599 TC 21006 100</b>
	2006 - 2007	(Condition Remanufactured, w/Vane Position sensor)	<b>599 TC 21016 100</b>
	2004 - 2005	(Condition New, w/Vane Position sensor)	<b>599 TC 21103 000</b>
	2004 - 2005	(Condition Remanufactured, with Actuator)	<b>599 TC 21103 100</b>
	2004 - 2005	(Condition Remanufactured, w/Vane Position sensor)	<b>599 TC 21113 100</b>

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	2006 - 2007	( Condition New); VINs: 2, D	<b>599 TH 21006 000</b>
	2004	(Condition New)	<b>599 TH 21005 000</b>
<b>Turbocharger Compressor Wheel</b>	2006 - 2007	( Performance Billet Compressor Wheel); VINs: 2, D	<b>599 TX 21006 000</b>
	2004 - 2005	( Performance Billet Compressor Wheel)	<b>599 TX 21103 000</b>
<b>Turbocharger Service Kit</b>	2004 - 2007	(Works for New)	<b>599 TS 21005 000</b>
	2004	(with California Emissions, Works for New)	<b>599 TS 21005 000</b>

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	2004 - 2007		<b>GS33678</b>
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<b>8</b>		<b>403 CID (6.6L) OHV 32V V8 3.90" (103.0mm) GENERAL MOTORS; Diesel</b> Engine Code: 'LGH', VIN Code: 'L' (2010 - 2016)	<b>8</b>
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**Kits and Add-ons**

<b>Turbocharger Service Kit</b>	2010	(Works for New)	<b>599 TS 21005 000</b>
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**GMC Truck**

PART	YEAR	NOTES	PART NUMBER
<b>8 (cont.)</b>		<b>403 CID (6.6L) OHV 32V V8 3.90" (103.0mm) GENERAL MOTORS; Diesel</b> Engine Code: 'LGH', VIN Code: 'L' (2010 - 2016)	<b>8 (cont.)</b>

**Gaskets**

Turbocharger Mounting Gasket Set	2011 - 2016		GS33937
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<b>9</b>		<b>403 CID (6.6L) OHV 32V V8 3.90" (103.0mm) GENERAL MOTORS; Diesel</b> Engine Code: 'LMM', VIN Code: '6' (2007 - 2010)	<b>9</b>
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**Turbochargers**

Turbocharger	2007 - 2010	(Condition New, w/o Vane Position Sensor)	599 TC 21007 000
	2007 - 2010	(Condition Remanufactured, w/o Vane Position Sensor)	599 TC 21007 100
	2007 - 2010	(Condition Remanufactured, w/Vane Position sensor)	599 TC 21017 100

**Kits and Add-ons**

Turbocharger Cartridge	2007 - 2010	(Condition New)	599 TH 21007 000
Turbocharger Compressor Wheel	2007 - 2010	( Performance Billet Compressor Wheel)	599 TX 21007 000
Turbocharger Service Kit	2007 - 2010	(Works for New)	599 TS 21005 000

**Gaskets**

Turbocharger Mounting Gasket Set	2007 - 2010		GS33678
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<b>10</b>		<b>403 CID (6.6L) OHV 32V V8 3.90" (103.0mm) GENERAL MOTORS; Diesel</b> Engine Code: 'LML', VIN Code: '8' (2011 - 2016)	<b>10</b>
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**Turbochargers**

Turbocharger	2011 - 2016	(Condition Remanufactured, w/Vane Position sensor)	599 TC 20114 100
	2011 - 2016	(Condition Remanufactured, w/o Vane Position sensor)	599 TC 20194 100

**Gaskets**

Turbocharger Mounting Gasket Set	2011 - 2016		GS33937
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**HYUNDAI**

ENGINE	CODE	YEAR	BLOCK
97 CID (1.6L) DOHC 16V L4 HYUNDAI	E	2013 - 2017	1
97 CID (1.6L) DOHC 16V L4 HYUNDAI	B	2017 - 2018	2
1591 CC (1.6L) DOHC 16V L4 HYUNDAI	C	2018	3
97 CID (1.6L) DOHC 16V L4 HYUNDAI	A	2015 - 2018	4
122 CID (2.0L) DOHC 16V L4 HYUNDAI	D	2010 - 2012	5
122 CID (2.0L) DOHC 16V L4 HYUNDAI	B	2011 - 2014	6

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>97 CID (1.6L) DOHC 16V L4 3.36" (77.0mm)</b> VIN Code: 'E' (2013 - 2017)	<b>1</b>

**Gaskets**

Turbocharger Mounting Gasket Set	2013 - 2017		GS33944
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**HYUNDAI**

PART	YEAR	NOTES	PART NUMBER
<b>2</b>		<b>97 CID (1.6L) DOHC 16V L4 3.36" (77.0mm)</b> VIN Code: 'B' (2017 - 2018)	<b>2</b>

**Gaskets**

Turbocharger Mounting Gasket Set	2017 - 2018		GS33943
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<b>3</b>		<b>1591 CC (1.6L) DOHC 16V L4 3.36" (77.0mm)</b> VIN Code: 'C' (2018)	<b>3</b>
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**Gaskets**

Turbocharger Mounting Gasket Set	2018		GS33943
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<b>4</b>		<b>97 CID (1.6L) DOHC 16V L4 3.36" (77.0mm)</b> VIN Code: 'A' (2015 - 2018)	<b>4</b>
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**Gaskets**

Turbocharger Mounting Gasket Set	2015 - 2018		GS33943
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<b>5</b>		<b>122 CID (2.0L) DOHC 16V L4 3.39" (86.0mm)</b> VIN Code: 'D' (2010 - 2012)	<b>5</b>
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**Turbochargers**

Turbocharger	2010 - 2012	(Condition Remanufactured)	681 TC 20001 100
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**Kits and Add-ons**

Turbocharger Cartridge	2010 - 2012	(Condition New)	681 TH 20001 000
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**Gaskets**

Turbocharger Mounting Gasket Set	2010 - 2012		GS33917
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<b>6</b>		<b>122 CID (2.0L) DOHC 16V L4 3.39" (86.0mm)</b> VIN Code: 'B' (2011 - 2014)	<b>6</b>
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**Turbochargers**

Turbocharger	2011 - 2014	(Condition Remanufactured)	681 TC 20002 100
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**Gaskets**

Turbocharger Mounting Gasket Set	2011 - 2014		GS33760
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**HYUNDAI Truck**

ENGINE	CODE	YEAR	BLOCK
97 CID (1.6L) DOHC 16V L4 HYUNDAI	2	2016 - 2018	1
122 CID (2.0L) DOHC 16V L4 HYUNDAI	A	2013 - 2016	2

## HYUNDAI Truck

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>97 CID (1.6L) DOHC 16V L4 3.36" (77.0mm) HYUNDAI</b> VIN Code: '2' (2016 - 2018)	<b>1</b>
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2016 - 2018		GS33943

<b>2</b>		<b>122 CID (2.0L) DOHC 16V L4 3.39" (86.0mm) HYUNDAI</b> VIN Code: 'A' (2013 - 2016)	<b>2</b>
<b>Turbochargers</b>			
Turbocharger	2013 - 2016	(Condition Remanufactured)	681 TC 20002 100
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2013 - 2016		GS33760

## JEEP Truck

ENGINE	CODE	YEAR	BLOCK
83 CID (1.4L) SOHC 16V L4 FIAT	EAM	2015 - 2018	1
182 CID (3.0L) DOHC 24V V6 CHRYSLER Diesel	M	2007 - 2008	2
171 CID (2.8L) DOHC 16V L4 CHRYSLER Diesel	5	2005 - 2006	3

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>83 CID (1.4L) SOHC 16V L4 3.31" (71.9mm) FIAT</b> Engine Code: 'EAM', VIN Code: 'H' (2015 - 2018)	<b>1</b>
<b>Turbochargers</b>			
Turbocharger	2015 - 2018	(Condition New, with Actuator)	513 TC 20181 000
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2015 - 2018		GS33908

<b>2</b>		<b>182 CID (3.0L) DOHC 24V V6 3.62" (83.0mm) CHRYSLER; Diesel</b> VIN Code: 'M' (2007 - 2008)	<b>2</b>
<b>Turbochargers</b>			
Turbocharger	2007 - 2008	(Condition New, with Actuator)	001 TC 18126 000
Turbocharger	2007 - 2008	(Condition Remanufactured, with Actuator)	001 TC 18126 100
<b>Kits and Add-ons</b>			
Turbocharger Cartridge	2007 - 2008	(Condition New)	001 TH 18126 000
Turbocharger Mounting Kit	2007 - 2008	(Condition New)	001 TA 18126 000
Turbocharger Service Kit	2007 - 2008	(Works for New)	001 TS 18126 000

<b>3</b>		<b>171 CID (2.8L) DOHC 16V L4 3.94" (94.0mm) CHRYSLER; Diesel</b> VIN Code: '5' (2005 - 2006)	<b>3</b>
<b>Turbochargers</b>			
Turbocharger	2005 - 2006	(Condition New)	781 TC 20001 000
Turbocharger	2005 - 2006	(Condition Remanufactured)	781 TC 20001 100

# JEEP Truck

PART	YEAR	NOTES	PART NUMBER
<b>3</b> (cont.)		<b>171 CID (2.8L) DOHC 16V L4 3.94" (94.0mm) CHRYSLER; Diesel</b> VIN Code: '5' (2005 - 2006)	<b>3</b> (cont.)
<b>Kits and Add-ons</b>			
Turbocharger Service Kit	2005 - 2006	(Works for New)	030 TS 20113 000
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2005 - 2006	( Multi-Layered Steel)	GS33920

# KIA

ENGINE	CODE	YEAR	BLOCK
97 CID (1.6L) DOHC 16V L4 HYUNDAI	3	2014 - 2016	1
97 CID (1.6L) DOHC 16V L4 HYUNDAI	1	2016 - 2018	2
1591 CC (1.6L) DOHC 16V L4 HYUNDAI	A	2017 - 2018	3
122 CID (2.0L) DOHC 16V L4 HYUNDAI	6	2011 - 2015	4

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>97 CID (1.6L) DOHC 16V L4 3.36" (77.0mm) HYUNDAI</b> VIN Code: '3' (2014 - 2016)	<b>1</b>
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2014 - 2016		GS33944
<b>2</b>		<b>97 CID (1.6L) DOHC 16V L4 3.36" (77.0mm) HYUNDAI</b> VIN Code: '1' (2016 - 2018)	<b>2</b>
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2016 - 2018		GS33943
<b>3</b>		<b>1591 CC (1.6L) DOHC 16V L4 3.36" (77.0mm) HYUNDAI</b> VIN Code: 'A' (2017 - 2018)	<b>3</b>
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2017 - 2018		GS33943
<b>4</b>		<b>122 CID (2.0L) DOHC 16V L4 3.39" (86.0mm) HYUNDAI</b> VIN Code: '6' (2011 - 2015)	<b>4</b>
<b>Turbochargers</b>			
Turbocharger	2011 - 2015	(Condition Remanufactured)	681 TC 20002 100
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2011 - 2015		GS33760

# KIA Truck

ENGINE	CODE	YEAR	BLOCK
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## KIA Truck

ENGINE	CODE	YEAR	BLOCK
122 CID (2.0L) DOHC 16V L4 HYUNDAI	6	2011 - 2015	1

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>122 CID (2.0L) DOHC 16V L4 3.39" (86.0mm) HYUNDAI</b> VIN Code: '6' (2011 - 2015)	<b>1</b>
<b>Turbochargers</b>			
Turbocharger	2011 - 2015	(Condition Remanufactured)	681 TC 20002 100
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2011 - 2015		GS33760

## MAZDA

ENGINE	CODE	YEAR	BLOCK
1597 CC (1.6L) SOHC 8V L4 MAZDA		1988 - 1989	1
1597 CC (1.6L) DOHC 16V L4 MAZDA	B6T	1988 - 1989	2
2260 CC (2.3L) DOHC 16V L4 MAZDA	MZR	2006 - 2013	3

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>1597 CC (1.6L) SOHC 8V L4 3.29" (78.0mm)</b> (1988 - 1989)	<b>1</b>
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	1988 - 1989		GS33836

<b>2</b>		<b>1597 CC (1.6L) DOHC 16V L4 3.29" (78.0mm)</b> Engine Code: 'B6T' (1988 - 1989)	<b>2</b>
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	1988 - 1989		GS33836

<b>3</b>		<b>2260 CC (2.3L) DOHC 16V L4 3.70" (87.4mm)</b> Engine Code: 'MZR', VIN Codes: '3,4,L,M' (2006 - 2013)	<b>3</b>
<b>Turbochargers</b>			
Turbocharger	2006 - 2013	(Condition New)	627 TC 20002 000
	2006 - 2013	(Condition Remanufactured)	627 TC 20002 100
<b>Kits and Add-ons</b>			
Turbocharger Cartridge	2006 - 2013	(Condition New)	627 TH 20002 000
Turbocharger Service Kit	2006 - 2013	(Works for New)	627 TS 20001 000
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2007 - 2013		GS33878

## MAZDA Truck

ENGINE	CODE	YEAR	BLOCK
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# MAZDA Truck

ENGINE	CODE	YEAR	BLOCK
2260 CC (2.3L) DOHC 16V L4 MAZDA	MZR	2007 - 2012	1

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>2260 CC (2.3L) DOHC 16V L4 3.70" (87.4mm) MAZDA</b> Engine Code: 'MZR', VIN Codes: '3,L' (2007 - 2012)	<b>1</b>

### Turbochargers

Turbocharger	2007 - 2012	(Condition New, with Actuator)	627 TC 20001 000
	2007 - 2012	(Condition Remanufactured, with Actuator)	627 TC 20001 100

### Kits and Add-ons

Turbocharger Cartridge	2012	(Condition New)	627 TH 20002 000
	2007 - 2011	(Condition New)	627 TH 20001 000
Turbocharger Service Kit	2007 - 2012	(Works for New)	627 TS 20001 000

### Gaskets

Turbocharger Mounting Gasket Set	2007 - 2012		GS33897
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# MERCEDES-BENZ

ENGINE	CODE	YEAR	BLOCK
1991 CC (2.0L) DOHC 16V L4 MERCEDES-BENZ FLEX	270.920	2014 - 2018	1
1991 CC (2.0L) DOHC 16V L4 MERCEDES-BENZ	274.920	2015 - 2018	2
2987 CC (3.0L) DOHC 24V V6 MERCEDES-BENZ Diesel	642.850	2007 - 2009,2011 - 2013	3
2987 CC (3.0L) DOHC 24V V6 MERCEDES-BENZ Diesel	642.920	2007 - 2009,2011 - 2013	3
2987 CC (3.0L) DOHC 24V V6 MERCEDES-BENZ Diesel	642.950	2007 - 2008	4
2987 CC (3.0L) DOHC 24V V6 MERCEDES-BENZ Diesel	642.870	2009 - 2013	5
2998 CC (3.0L) SOHC 10V L5 MERCEDES-BENZ Diesel		1982 - 1985	6

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>1991 CC (2.0L) DOHC 16V L4 3.62" (83.0mm); FLEX</b> Engine Code: '270.920' (2014 - 2018)	<b>1</b>

### Gaskets

Turbocharger Mounting Gasket Set	2014 - 2018		GS33935
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<b>2</b>		<b>1991 CC (2.0L) DOHC 16V L4 3.62" (83.0mm)</b> Engine Code: '274.920' (2015 - 2018)	<b>2</b>
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### Gaskets

Turbocharger Mounting Gasket Set	2015 - 2018		GS33936
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<b>3</b>		<b>2987 CC (3.0L) DOHC 24V V6 3.62" (83.0mm); Diesel</b> Engine Codes: '642.850,642.920' (2007 - 2009,2011 - 2013)	<b>3</b>
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### Turbochargers

Turbocharger	2011 - 2013	(Condition New)	001 TC 18126 000
	2011 - 2013	(Condition Remanufactured)	001 TC 18126 100
	2008 - 2009	(Condition Remanufactured)	001 TC 18126 100
	2007 - 2009	(Condition New)	001 TC 18126 000



**MERCEDES-BENZ**

PART	YEAR	NOTES	PART NUMBER
<b>3</b> (cont.)		<b>2987 CC (3.0L) DOHC 24V V6 3.62" (83.0mm); Diesel</b> Engine Codes: '642.850,642.920' (2007 - 2009,2011 - 2013)	<b>3</b> (cont.)

**Kits and Add-ons**

<b>Turbocharger Mounting Kit</b>	2011 - 2013	(Condition New)	001 TA 18126 000
	2007 - 2009	(Condition New)	001 TA 18126 000

<b>4</b>		<b>2987 CC (3.0L) DOHC 24V V6 3.62" (83.0mm); Diesel</b> Engine Code: '642.950' (2007 - 2008)	<b>4</b>
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**Turbochargers**

<b>Turbocharger</b>	2007 - 2008	(Condition New, With Actuator)	001 TC 18127 000
	2007 - 2008	(Condition Remanufactured, With Actuator)	001 TC 18127 100

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	2007 - 2008	(Condition New)	001 TH 18126 000
<b>Turbocharger Service Kit</b>	2007 - 2008	(Works for New)	001 TS 18126 000

<b>5</b>		<b>2987 CC (3.0L) DOHC 24V V6 3.62" (83.0mm); Diesel</b> Engine Code: '642.870' (2009 - 2013)	<b>5</b>
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**Turbochargers**

<b>Turbocharger</b>	2009 - 2013	(Condition New, With Actuator)	001 TC 18126 000
	2009 - 2013	(Condition Remanufactured, With Actuator)	001 TC 18126 100

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	2009 - 2012	(Condition New)	001 TH 18126 000
<b>Turbocharger Mounting Kit</b>	2009 - 2012	(Condition New)	001 TA 18126 000
<b>Turbocharger Service Kit</b>	2009 - 2012	(Works for New)	001 TS 18126 000

<b>6</b>		<b>2998 CC (3.0L) SOHC 10V L5 3.64" (91.0mm); Diesel</b> (1982 - 1985)	<b>6</b>
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**Turbochargers**

<b>Turbocharger</b>	1982 - 1985	(Condition Remanufactured)	001 TC 21103 100
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**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	1982 - 1984		GS33927
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**MERCEDES-BENZ Truck**

ENGINE	CODE	YEAR	BLOCK
1991 CC (2.0L) DOHC 16V L4 MERCEDES-BENZ FLEX	270.920	2015 - 2018	1
1991 CC (2.0L) DOHC 16V L4 MERCEDES-BENZ	274.920	2016 - 2018	2
2987 CC (3.0L) DOHC 24V V6 MERCEDES-BENZ Diesel	642.820	2009 - 2012	3
2987 CC (3.0L) DOHC 24V V6 MERCEDES-BENZ Diesel	642.898	2009 - 2012	3
2987 CC (3.0L) DOHC 24V V6 MERCEDES-BENZ Diesel	642.940	2007 - 2008	4
2987 CC (3.0L) DOHC 24V V6 MERCEDES-BENZ Diesel	642.896	2013 - 2016	5

**MERCEDES-BENZ Truck**

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>1991 CC (2.0L) DOHC 16V L4 3.62" (83.0mm) MERCEDES-BENZ; FLEX</b> Engine Code: '270.920' (2015 - 2018)	<b>1</b>

**Gaskets**

Turbocharger Mounting Gasket Set	2015 - 2018		GS33935
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<b>2</b>		<b>1991 CC (2.0L) DOHC 16V L4 3.62" (83.0mm) MERCEDES-BENZ</b> Engine Code: '274.920' (2016 - 2018)	<b>2</b>
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**Gaskets**

Turbocharger Mounting Gasket Set	2016 - 2018		GS33936
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<b>3</b>		<b>2987 CC (3.0L) DOHC 24V V6 3.62" (83.0mm) MERCEDES-BENZ; Diesel</b> Engine Codes: '642.820,642.898' (2009 - 2012)	<b>3</b>
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**Turbochargers**

Turbocharger	2009 - 2012	(Condition New)	001 TC 18126 000
	2009 - 2012	(Condition Remanufactured)	001 TC 18126 100

**Kits and Add-ons**

Turbocharger Cartridge	2009 - 2012	(Condition New)	001 TH 18126 000
Turbocharger Mounting Kit	2009 - 2012	(Condition New)	001 TA 18126 000
Turbocharger Service Kit	2009 - 2012	(Works for New)	001 TS 18126 000

<b>4</b>		<b>2987 CC (3.0L) DOHC 24V V6 3.62" (83.0mm) MERCEDES-BENZ; Diesel</b> Engine Code: '642.940' (2007 - 2008)	<b>4</b>
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**Turbochargers**

Turbocharger	2007 - 2008	(Condition New, With Actuator)	001 TC 18127 000
	2007 - 2008	(Condition Remanufactured, With Actuator)	001 TC 18127 100

**Kits and Add-ons**

Turbocharger Cartridge	2007 - 2008	(Condition New)	001 TH 18126 000
Turbocharger Service Kit	2007 - 2008	(Works for New)	001 TS 18126 000

<b>5</b>		<b>2987 CC (3.0L) DOHC 24V V6 3.62" (83.0mm) MERCEDES-BENZ; Diesel</b> Engine Code: '642.896' (2013 - 2016)	<b>5</b>
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**Turbochargers**

Turbocharger	2013 - 2016	(Condition New)	001 TC 18126 000
	2013 - 2015	(Condition Remanufactured)	001 TC 18126 100

**Kits and Add-ons**

Turbocharger Mounting Kit	2013 - 2015	(Condition New)	001 TA 18126 000
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**MINI**

ENGINE	CODE	YEAR	BLOCK
1598 CC (1.6L) DOHC 16V L4 BMW	N18B16A	2011 - 2016	1
1598 CC (1.6L) DOHC 16V L4 BMW	N14B16C	2009 - 2012	2
1598 CC (1.6L) DOHC 16V L4 BMW	N18B16C	2013 - 2016	3
1598 CC (1.6L) DOHC 16V L4 BMW	N14B16A	2007 - 2010	4
1499 CC (1.5L) DOHC 12V L3 BMW	B38A15M0	2014 - 2015	5

ENGINE	CODE	YEAR	BLOCK
1499 CC (1.5L) DOHC 12V L3 BMW	B36A15M0	2016 - 2017	6

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>1598 CC (1.6L) DOHC 16V L4 3.38" (77.0mm) BMW</b> Engine Code: 'N18B16A' (2011 - 2016)	<b>1</b>

## Turbochargers

Turbocharger	2011 - 2016	(Condition New)	082 TC 20186 000
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## Gaskets

Turbocharger Mounting Gasket Set	2011 - 2016		GS33906
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<b>2</b>		<b>1598 CC (1.6L) DOHC 16V L4 3.38" (77.0mm) BMW</b> Engine Code: 'N14B16C' (2009 - 2012)	<b>2</b>
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## Turbochargers

Turbocharger	2009 - 2012	(Condition New)	082 TC 20187 000
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## Gaskets

Turbocharger Mounting Gasket Set	2009 - 2012		GS33906
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<b>3</b>		<b>1598 CC (1.6L) DOHC 16V L4 3.38" (77.0mm) BMW</b> Engine Code: 'N18B16C' (2013 - 2016)	<b>3</b>
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## Gaskets

Turbocharger Mounting Gasket Set	2013 - 2016		GS33906
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<b>4</b>		<b>1598 CC (1.6L) DOHC 16V L4 3.38" (77.0mm) BMW</b> Engine Code: 'N14B16A' (2007 - 2010)	<b>4</b>
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## Turbochargers

Turbocharger	2007 - 2010	(Condition New)	082 TC 20181 000
	2007 - 2010	(Condition Remanufactured)	082 TC 20181 100

## Kits and Add-ons

Turbocharger Cartridge	2007 - 2010	(Condition New)	082 TH 20181 000
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## Gaskets

Turbocharger Mounting Gasket Set	2007 - 2010		GS33906
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<b>5</b>		<b>1499 CC (1.5L) DOHC 12V L3 3.72" (82.0mm) BMW</b> Engine Code: 'B38A15M0' (2014 - 2015)	<b>5</b>
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## Turbochargers

Turbocharger	2014 - 2015	(Condition New)	081 TC 23500 000
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## Gaskets

Turbocharger Mounting Gasket Set	2014 - 2015		GS33906
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**MINI**

PART	YEAR	NOTES	PART NUMBER
<b>6</b>		<b>1499 CC (1.5L) DOHC 12V L3 3.72" (82.0mm) BMW</b> Engine Code: 'B36A15M0' (2016 - 2017)	<b>6</b>
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2016 - 2017		GS33906

**MITSUBISHI**

ENGINE	CODE	YEAR	BLOCK
122 CID (2.0L) DOHC 16V L4 MITSUBISHI	F	1993 - 1999	1
122 CID (2.0L) DOHC 16V L4 MITSUBISHI	U	1990 - 1992	2
156 CID (2.6L) SOHC 8V L4 MITSUBISHI	N	1985 - 1989	3
156 CID (2.6L) SOHC 8V L4 MITSUBISHI	7	1983	4
156 CID (2.6L) SOHC 8V L4 MITSUBISHI	H	1984 - 1987	5
181 CID (3.0L) DOHC 24V V6 MITSUBISHI	C	1991 - 1992	6
181 CID (3.0L) DOHC 24V V6 MITSUBISHI	K	1993 - 1999	7

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>122 CID (2.0L) DOHC 16V L4 3.46" (85.0mm)</b> Engine Codes: '4G63,4G63T', VIN Code: 'F' (1993 - 1999)	<b>1</b>
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	1993 - 1999		GS33311

<b>2</b>		<b>122 CID (2.0L) DOHC 16V L4 3.46" (85.0mm)</b> VIN Code: 'U' (1990 - 1992)	<b>2</b>
<b>Turbochargers</b>			
Turbocharger	1990 - 1992	(Condition Remanufactured, Manual Transmission)	513 TC 20186 100
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	1990 - 1992		GS33311

<b>3</b>		<b>156 CID (2.6L) SOHC 8V L4 3.86" (91.1mm)</b> VIN Code: 'N' (1985 - 1989)	<b>3</b>
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	1985 - 1989		GS33077

<b>4</b>		<b>156 CID (2.6L) SOHC 8V L4 3.86" (91.1mm)</b> VIN Code: '7' (1983)	<b>4</b>
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	1983		GS33077

**MITSUBISHI**

PART	YEAR	NOTES	PART NUMBER
<b>5</b>		<b>156 CID (2.6L) SOHC 8V L4 3.86" (91.1mm)</b> VIN Code: 'H' (1984 - 1987)	<b>5</b>

**Gaskets**

Turbocharger Mounting Gasket Set	1984 - 1987		GS33077
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<b>6</b>		<b>181 CID (3.0L) DOHC 24V V6 2.99" (91.1mm)</b> Engine Code: '6G72-T', VIN Code: 'C' (1991 - 1992)	<b>6</b>
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**Gaskets**

Turbocharger Mounting Gasket Set	1991 - 1992		GS33834
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<b>7</b>		<b>181 CID (3.0L) DOHC 24V V6 2.99" (91.1mm)</b> Engine Codes: '6G72T,6G72-T', VIN Code: 'K' (1993 - 1999)	<b>7</b>
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**Gaskets**

Turbocharger Mounting Gasket Set	1993 - 1999		GS33834
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**NISSAN**

ENGINE	CODE	YEAR	BLOCK
1809 CC (1.8L) SOHC 8V L4 NISSAN	CA18ET	1985 - 1986	1
2960 CC (3.0L) SOHC 12V V6 NISSAN	VG30T	1984 - 1987	2

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>1809 CC (1.8L) SOHC 8V L4 3.29" (83.0mm)</b> Engine Code: 'CA18ET', VIN Code: 'C' (1985 - 1986)	<b>1</b>

**Turbochargers**

Turbocharger	1985 - 1986	(Condition Remanufactured)	640 TC 20002 100
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<b>2</b>		<b>2960 CC (3.0L) SOHC 12V V6 3.27" (87.1mm)</b> Engine Code: 'VG30T', VIN Code: 'C' (1984 - 1987)	<b>2</b>
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**Turbochargers**

Turbocharger	1984 - 1987	(Condition Remanufactured)	640 TC 20003 100
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**NISSAN Truck**

ENGINE	CODE	YEAR	BLOCK
1618 CC (1.6L) DOHC 16V L4 NISSAN	MR16DDT	2011 - 2017	1

**NISSAN Truck**

PART	YEAR	NOTES	PART NUMBER
<b>1</b>	<b>1618 CC (1.6L) DOHC 16V L4 3.19" (79.7mm) NISSAN</b> Engine Code: 'MR16DDT' (2011 - 2017)		<b>1</b>
<b>Turbochargers</b>			
Turbocharger	2014 - 2017	(Condition New, with Actuator)	640 TC 20001 000
	2012	(Condition New, with Actuator)	640 TC 20001 000
	2011	(Condition New, with Actuator)	640 TC 20001 000
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2011 - 2017		GS33899

**SAAB**

ENGINE	CODE	YEAR	BLOCK
1985 CC (2.0L) DOHC 16V L4 SAAB	B207L	2003,2005	1
1985 CC (2.0L) DOHC 16V L4 SAAB	B207R	2003,2005 - 2011	2
181 CID (3.0L) DOHC 24V V6 GM EUROPE	B308E	2000 - 2003	3
1985 CC (2.0L) DOHC 16V L4 SAAB	B204L	1994 - 1999	4
1985 CC (2.0L) DOHC 16V L4 SAAB	B205R	2000 - 2003	5
140 CID (2.3L) DOHC 16V L4 SAAB	B235R	1999 - 2003,2005 - 2009	6
1985 CC (2.0L) DOHC 16V L4 SAAB	B204R	1999 - 2001	7
1985 CC (2.0L) DOHC 16V L4 SAAB	B205L	1999 - 2001	7
140 CID (2.3L) DOHC 16V L4 SAAB	B235E	1999 - 2003,2005	8
1985 CC (2.0L) DOHC 16V L4 SAAB	B202R	1994	9
140 CID (2.3L) DOHC 16V L4 SAAB	B235L	2004 - 2005	10
1994 CC (2.0L) DOHC 16V H4 SUBARU	EJ205	2005	11
2458 CC (2.5L) SOHC 16V H4 SUBARU	EJ253	2006	12
2458 CC (2.5L) DOHC 16V H4 SUBARU	EJ255	2006	13

PART	YEAR	NOTES	PART NUMBER
<b>1</b>	<b>1985 CC (2.0L) DOHC 16V L4 3.39" (86.0mm)</b> Engine Code: 'B207L' (2003,2005)		<b>1</b>
<b>Turbochargers</b>			
Turbocharger	2005	(Condition New, with Actuator)	479 TC 20177 000
	2005	(Condition Remanufactured, with Actuator)	479 TC 20177 100
	2003	(Condition New, with Actuator)	479 TC 20177 000
	2003	(Condition Remanufactured, with Actuator)	479 TC 20177 100
<b>Kits and Add-ons</b>			
Turbocharger Service Kit	2005	(Works for New)	479 TS 20175 000
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2005	( Beaded Steel)	GS33526
	2003	( Beaded Steel)	GS33526

<b>2</b>	<b>1985 CC (2.0L) DOHC 16V L4 3.39" (86.0mm)</b> Engine Code: 'B207R', VIN Code: 'Y' (2003,2005 - 2011)		<b>2</b>
<b>Turbochargers</b>			
Turbocharger	2011	(Condition New)	479 TC 20179 000
	2011	(Condition Remanufactured)	479 TC 20179 100
	2005 - 2010	(Condition New)	479 TC 20179 000

PART	YEAR	NOTES	PART NUMBER
<b>2</b> (cont.)	<b>1985 CC (2.0L) DOHC 16V L4 3.39" (86.0mm)</b> Engine Code: 'B207R', VIN Code: 'Y' (2003,2005 - 2011)		<b>2</b> (cont.)

## Turbochargers

Turbocharger (cont.)	2005 - 2010	(Condition Remanufactured)	479 TC 20179 100
	2003	(Condition New)	479 TC 20179 000
	2003	(Condition Remanufactured)	479 TC 20179 100

## Kits and Add-ons

Turbocharger Cartridge	2005 - 2011	(Condition New)	479 TH 20179 000
	2003	(Condition New)	479 TH 20179 000
Turbocharger Service Kit	2005	(Works for New)	479 TS 20175 000

## Gaskets

Turbocharger Mounting Gasket Set	2005 - 2011	( Beaded Steel)	GS33526
	2003	( Beaded Steel)	GS33526

<b>3</b>	<b>181 CID (3.0L) DOHC 24V V6 3.35" (86.0mm) GM EUROPE</b> Engine Code: 'B308E', VIN Code: 'Z' (2000 - 2003)		<b>3</b>
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## Turbochargers

Turbocharger	2000 - 2003	(Condition New)	479 TC 20185 000
	2000 - 2003	(Condition Remanufactured)	479 TC 20185 100

## Kits and Add-ons

Turbocharger Cartridge	2000 - 2003	(Condition New)	479 TH 20185 000
Turbocharger Service Kit	2000 - 2003	(Works for New)	030 TS 20113 000

<b>4</b>	<b>1985 CC (2.0L) DOHC 16V L4 3.07" (90.0mm)</b> Engine Code: 'B204L', VIN Code: 'N' (1994 - 1999)		<b>4</b>
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## Turbochargers

Turbocharger	1999	(Condition New)	479 TC 20174 000
	1994 - 1998	(Condition Remanufactured)	479 TC 20176 100

## Kits and Add-ons

Turbocharger Cartridge	1994 - 1999	(Condition New)	479 TH 20176 000
Turbocharger Service Kit	1999	(Works for New)	479 TS 20175 000
	1994 - 1998	(Works for New)	479 TS 20176 000

## Gaskets

Turbocharger Mounting Gasket Set	1994 - 1999	( Beaded Steel)	GS33522
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<b>5</b>	<b>1985 CC (2.0L) DOHC 16V L4 3.07" (90.0mm)</b> Engine Code: 'B205R', VIN Code: 'K' (2000 - 2003)		<b>5</b>
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## Turbochargers

Turbocharger	2000 - 2003	(Condition New, with Actuator)	479 TC 20178 000
	2000 - 2003	(Condition Remanufactured, with Actuator)	479 TC 20178 100

## Kits and Add-ons

Turbocharger Cartridge	2000 - 2003	(Condition New)	479 TH 20178 000
Turbocharger Service Kit	2000 - 2003	(Works for New)	479 TS 20175 000

## Gaskets

Turbocharger Mounting Gasket Set	2000 - 2003	( Beaded Steel)	GS33522
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PART	YEAR	NOTES	PART NUMBER
<b>6</b>		<b>140 CID (2.3L) DOHC 16V L4 3.54" (90.0mm)</b> Engine Code: 'B235R', VIN Code: 'G' (1999 - 2003,2005 - 2009)	<b>6</b>

## Turbochargers

Turbocharger	2005 - 2009	(Condition New, with Actuator)	479 TC 20178 000
	2005 - 2009	(Condition Remanufactured, with Actuator)	479 TC 20178 100
	1999 - 2003	(Condition New, with Actuator)	479 TC 20178 000
	1999 - 2003	(Condition Remanufactured, with Actuator)	479 TC 20178 100

## Kits and Add-ons

Turbocharger Cartridge	2005	(Condition New)	479 TH 20178 000
	1999 - 2003	(Condition New)	479 TH 20178 000
Turbocharger Service Kit	2005	(Works for New)	479 TS 20178 000
	1999 - 2003	(Works for New)	479 TS 20178 000

## Gaskets

Turbocharger Mounting Gasket Set	2005 - 2009	( Beaded Steel)	GS33522
	1999 - 2003	( Beaded Steel)	GS33522

<b>7</b>		<b>1985 CC (2.0L) DOHC 16V L4 3.07" (90.0mm)</b> Engine Codes: 'B204R,B205L', VIN Codes: 'H,P' (1999 - 2001)	<b>7</b>
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## Turbochargers

Turbocharger	1999 - 2001	(Condition New)	479 TC 20175 000
	1999 - 2001	(Condition Remanufactured)	479 TC 20175 100

## Kits and Add-ons

Turbocharger Cartridge	1999 - 2001	(Condition New)	479 TH 20175 000
Turbocharger Service Kit	1999 - 2001	(Works for New)	479 TS 20175 000

## Gaskets

Turbocharger Mounting Gasket Set	1999 - 2001	( Beaded Steel)	GS33522
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<b>8</b>		<b>140 CID (2.3L) DOHC 16V L4 3.54" (90.0mm)</b> Engine Code: 'B235E', VIN Code: 'E' (1999 - 2003,2005)	<b>8</b>
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## Turbochargers

Turbocharger	2005	(Condition New)	479 TC 20175 000
	2005	(Condition Remanufactured)	479 TC 20175 100
	1999 - 2003	(Condition New)	479 TC 20175 000
	1999 - 2003	(Condition Remanufactured)	479 TC 20175 100

## Kits and Add-ons

Turbocharger Cartridge	2005	(Condition New)	479 TH 20175 000
	1999 - 2003	(Condition New)	479 TH 20175 000

## Gaskets

Turbocharger Mounting Gasket Set	2005	( Beaded Steel)	GS33522
	1999 - 2003	( Beaded Steel)	GS33522

<b>9</b>		<b>1985 CC (2.0L) DOHC 16V L4 3.07" (90.0mm)</b> Engine Code: 'B202R', VIN Code: 'T' (1994)	<b>9</b>
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## Gaskets

Turbocharger Mounting Gasket Set	1994	( Beaded Steel)	GS33522
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PART	YEAR	NOTES	PART NUMBER
<b>10</b>		<b>140 CID (2.3L) DOHC 16V L4 3.54" (90.0mm)</b> Engine Code: 'B235L' (2004 - 2005)	<b>10</b>

## Turbochargers

Turbocharger	2004 - 2005	(Condition New, with Actuator)	479 TC 20178 000
	2004 - 2005	(Condition Remanufactured, with Actuator)	479 TC 20178 100

## Kits and Add-ons

Turbocharger Cartridge	2004 - 2005	(Condition New)	479 TH 20178 000
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## Gaskets

Turbocharger Mounting Gasket Set	2004 - 2005	( Beaded Steel)	GS33522
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<b>11</b>		<b>1994 CC (2.0L) DOHC 16V H4 2.95" (92.0mm) SUBARU</b> Engine Code: 'EJ205' (2005)	<b>11</b>
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## Turbochargers

Turbocharger	2005	(Condition Remanufactured)	745 TC 20003 100
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## Kits and Add-ons

Turbocharger Cartridge	2005	(Condition New)	745 TH 20002 000
Turbocharger Service Kit	2005	(Works for New)	745 TS 20002 000

## Gaskets

Turbocharger Mounting Gasket Set	2005		GS33536
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<b>12</b>		<b>2458 CC (2.5L) SOHC 16V H4 3.11" (99.5mm) SUBARU</b> Engine Code: 'EJ253' (2006)	<b>12</b>
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## Turbochargers

Turbocharger	2006	(Condition New)	745 TC 20004 000
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<b>13</b>		<b>2458 CC (2.5L) DOHC 16V H4 3.11" (99.5mm) SUBARU</b> Engine Code: 'EJ255' (2006)	<b>13</b>
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## Kits and Add-ons

Turbocharger Cartridge	2006	(Condition New)	745 TH 20002 000
Turbocharger Service Kit	2006	(Works for New)	745 TS 20002 000

## Gaskets

Turbocharger Mounting Gasket Set	2006		GS33536
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## SMART

ENGINE	CODE	YEAR	BLOCK
61 CID (1.0L) DOHC 12V L3 MITSUBISHI	132.910	2008 - 2010	1

**SMART**

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>61 CID (1.0L) DOHC 12V L3 3.22" (71.9mm) MITSUBISHI</b> Engine Code: '132.910' (2008 - 2010)	<b>1</b>
<b>Turbochargers</b>			
Turbocharger	2008 - 2010	(Condition New)	222 TC 20001 000
	2008 - 2010	(Condition Remanufactured)	222 TC 20001 100

**SUBARU**

ENGINE	CODE	YEAR	BLOCK
1781 CC (1.8L) SOHC 8V H4 SUBARU	4	1985 - 1990	1
1781 CC (1.8L) SOHC 8V H4 SUBARU	5	1985 - 1990	1
1781 CC (1.8L) SOHC 8V H4 SUBARU	7	1985 - 1990	1
1781 CC (1.8L) SOHC 8V H4 SUBARU	4	1985 - 1990	2
1781 CC (1.8L) SOHC 8V H4 SUBARU	5	1985 - 1990	2
1781 CC (1.8L) SOHC 8V H4 SUBARU	7	1985 - 1990	2
1781 CC (1.8L) OHV 8V H4 SUBARU	4	1985 - 1986	3
1781 CC (1.8L) OHV 8V H4 SUBARU	5	1985 - 1986	3
1994 CC (2.0L) DOHC 16V H4 SUBARU	EJ205	2002 - 2005	4
2458 CC (2.5L) DOHC 16V H4 SUBARU	EJ257	2004 - 2019	5
2458 CC (2.5L) SOHC 16V H4 SUBARU	EJ253	2005 - 2008,2010 - 2012	6
2458 CC (2.5L) SOHC 16V H4 SUBARU	EJ251	2002 - 2004	7
2458 CC (2.5L) DOHC 16V H4 SUBARU	EJ255	2005 - 2014	8

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>1781 CC (1.8L) SOHC 8V H4 2.63" (92.0mm)</b> VIN Codes: '4,5,7' (1985 - 1990)	<b>1</b>
<b>Turbochargers</b>			
Turbocharger	1985-1990	(Condition Remanufactured); VINs: 5, 7	745 TC 20009 100

<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	1985 - 1990		GS33145

<b>2</b>		<b>1781 CC (1.8L) SOHC 8V H4 2.63" (92.0mm)</b> VIN Codes: '4,5,7' (1985 - 1990)	<b>2</b>
<b>Turbochargers</b>			
Turbocharger	1985	(Condition Remanufactured); VINs: 5, 7	745 TC 20009 100

<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	1985 - 1990		GS33145

<b>3</b>		<b>1781 CC (1.8L) OHV 8V H4 2.63" (92.0mm)</b> VIN Codes: '4,5' (1985 - 1986)	<b>3</b>
<b>Turbochargers</b>			
Turbocharger	1985 - 1986	(Condition Remanufactured); VINs: 5, 7	745 TC 20009 100

<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	1985 - 1986		GS33145

PART	YEAR	NOTES	PART NUMBER
<b>4</b>	<b>1994 CC (2.0L) DOHC 16V H4 2.95" (92.0mm)</b>	<b>Engine Code: 'EJ205' (2002 - 2005)</b>	<b>4</b>

**Turbochargers**

Turbocharger	2002 - 2005	(Condition Remanufactured)	745 TC 20003 100
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**Kits and Add-ons**

Turbocharger Cartridge	2002 - 2005	(Condition New)	745 TH 20002 000
Turbocharger Service Kit	2002 - 2005	(Works for New)	745 TS 20002 000

**Gaskets**

Turbocharger Mounting Gasket Set	2002 - 2005		GS33536
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<b>5</b>	<b>2458 CC (2.5L) DOHC 16V H4 3.11" (99.5mm)</b>	<b>Engine Code: 'EJ257' (2004 - 2019)</b>	<b>5</b>
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**Turbochargers**

Turbocharger	2008 - 2019	(Condition New)	745 TC 20007 000
	2008 - 2019	(Condition Remanufactured)	745 TC 20007 100
	2004 - 2007	(Condition New)	745 TC 20005 000
	2004 - 2007	(Condition Remanufactured)	745 TC 20005 100

**Kits and Add-ons**

Turbocharger Cartridge	2004 - 2007	(Condition New)	745 TH 20005 000
Turbocharger Service Kit	2008 - 2016	(Works for New)	745 TS 20005 000

**Gaskets**

Turbocharger Mounting Gasket Set	2004 - 2014		GS33536
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<b>6</b>	<b>2458 CC (2.5L) SOHC 16V H4 3.11" (99.5mm)</b>	<b>Engine Code: 'EJ253' (2005 - 2008,2010 - 2012)</b>	<b>6</b>
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**Turbochargers**

Turbocharger	2010 - 2012	(Condition New)	745 TC 20001 000
	2010 - 2012	(Condition Remanufactured)	745 TC 20001 100
	2005 - 2008	(Condition New)	745 TC 20004 000

<b>7</b>	<b>2458 CC (2.5L) SOHC 16V H4 3.11" (99.5mm)</b>	<b>Engine Code: 'EJ251' (2002 - 2004)</b>	<b>7</b>
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**Turbochargers**

Turbocharger	2002 - 2004	(Condition New)	745 TC 20004 000
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<b>8</b>	<b>2458 CC (2.5L) DOHC 16V H4 3.11" (99.5mm)</b>	<b>Engine Code: 'EJ255' (2005 - 2014)</b>	<b>8</b>
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**Turbochargers**

Turbocharger	2013 - 2014	(Condition New, Manual Transmission)	745 TC 20001 000
	2013 - 2014	(Condition Remanufactured, Manual Transmission)	745 TC 20001 100
	2010 - 2012	(Condition New, Manual Transmission)	745 TC 20001 000
	2010 - 2012	(Condition Remanufactured, Manual Transmission)	745 TC 20001 100
	2008 - 2010	(Condition New, Automatic Transmission)	745 TC 20008 000
	2008 - 2010	(Condition Remanufactured, Automatic Transmission)	745 TC 20008 100
	2008 - 2009	(Condition New, Manual Transmission)	745 TC 20001 000

**SUBARU**

PART	YEAR	NOTES	PART NUMBER
<b>8 (cont.)</b>	<b>2458 CC (2.5L) DOHC 16V H4 3.11" (99.5mm)</b> Engine Code: 'EJ255' (2005 - 2014)		<b>8 (cont.)</b>
<b>Turbochargers</b>			
Turbocharger (cont.)	2008 - 2009	(Condition Remanufactured, Manual Transmission)	745 TC 20001 100
	2007 - 2009	(Condition New)	745 TC 20006 000
	2007 - 2009	(Condition Remanufactured)	745 TC 20006 100
	2006 - 2007	(Condition New, without STI model, with Actuator)	745 TC 20002 000
	2006	(Condition New)	607 TC 20180 000
	2005 - 2006	(Condition Remanufactured)	607 TC 20180 100
	2005	(Condition New)	607 TC 20180 000
<b>Kits and Add-ons</b>			
Turbocharger Cartridge	2007 - 2009	(Condition New)   LEGACY, OUTBACK	745 TH 20006 000
	2006 - 2008	(Condition New)   IMPREZA	745 TH 20002 000
	2005 - 2006	(Condition New)   LEGACY, OUTBACK	745 TH 20180 000
Turbocharger Service Kit	2009 - 2010	(Works for New)   IMPREZA	745 TS 20001 000
	2005 - 2009	(Works for New)   LEGACY, OUTBACK	745 TS 20180 000
	2006 - 2008	(Works for New)   IMPREZA	745 TS 20002 000
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2005 - 2014		GS33536

**SUBARU Truck**

ENGINE	CODE	YEAR	BLOCK
2458 CC (2.5L) DOHC 16V H4 SUBARU	EJ255	2004 - 2013	1
2458 CC (2.5L) SOHC 16V H4 SUBARU	EJ251	2004 - 2008	2
2458 CC (2.5L) SOHC 16V H4 SUBARU	EJ253	2004 - 2008	2

PART	YEAR	NOTES	PART NUMBER
<b>1</b>	<b>2458 CC (2.5L) DOHC 16V H4 3.11" (99.5mm) SUBARU</b> Engine Code: 'EJ255' (2004 - 2013)		<b>1</b>
<b>Turbochargers</b>			
Turbocharger	2009 - 2013	(Condition New)	745 TC 20008 000
	2009 - 2013	(Condition Remanufactured)	745 TC 20008 100
	2006 - 2008	(Condition New, without STI model, with Actuator)	745 TC 20002 000
	2004	(Condition New)	745 TC 20004 000
<b>Kits and Add-ons</b>			
Turbocharger Cartridge	2004 - 2008	(Condition New)	745 TH 20002 000
Turbocharger Service Kit	2009 - 2013	(Works for New)	745 TS 20001 000
	2004 - 2008	(Works for New)	745 TS 20002 000
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2004 - 2013		GS33536

**SUBARU Truck**

PART	YEAR	NOTES	PART NUMBER
<b>2</b>		<b>2458 CC (2.5L) SOHC 16V H4 3.11" (99.5mm) SUBARU</b> Engine Codes: 'EJ251,EJ253' (2004 - 2008)	<b>2</b>
<b>Turbochargers</b>			
Turbocharger	2004 - 2008	(Condition New)	745 TC 20004 000

**VOLVO**

ENGINE	CODE	YEAR	BLOCK
2521 CC (2.5L) DOHC 20V L5 VOLVO	B5254T3	2005 - 2013	1
2521 CC (2.5L) DOHC 20V L5 VOLVO	B5254T7	2005 - 2013	1
2521 CC (2.5L) DOHC 20V L5 VOLVO	B5254T2	2003 - 2009	2
1948 CC (1.9L) DOHC 16V L4 VOLVO	B4204T	2000 - 2004	3
1948 CC (1.9L) DOHC 16V L4 VOLVO	B4204T2	2000 - 2004	3
1948 CC (1.9L) DOHC 16V L4 VOLVO	B4204T3	2000 - 2004	3
1948 CC (1.9L) DOHC 16V L4 VOLVO	B4204T4	2000 - 2004	3
2435 CC (2.4L) DOHC 20V L5 VOLVO	B5244T7	2003 - 2004	4
2435 CC (2.4L) DOHC 20V L5 VOLVO	B5244T3	2001 - 2003	5
2435 CC (2.4L) DOHC 20V L5 VOLVO	B5244T	2000 - 2002	6
2521 CC (2.5L) DOHC 20V L5 VOLVO	B5254T3	2004 - 2005	7
2316 CC (2.3L) SOHC 8V L4 VOLVO	B230FT	1985 - 1988	8

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>2521 CC (2.5L) DOHC 20V L5 3.67" (83.0mm)</b> Engine Codes: 'B5254T3,B5254T7' (2005 - 2013)	<b>1</b>
<b>Turbochargers</b>			
Turbocharger	2005 - 2013	(Condition Remanufactured)	038 TC 20003 100
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2005 - 2013		GS33922

PART	YEAR	NOTES	PART NUMBER
<b>2</b>		<b>2521 CC (2.5L) DOHC 20V L5 3.67" (83.0mm)</b> Engine Code: 'B5254T2', VIN Code: '59' (2003 - 2009)	<b>2</b>
<b>Turbochargers</b>			
Turbocharger	2003 - 2009	(Condition New, with Actuator)	038 TC 20001 000
Turbocharger	2003 - 2009	(Condition Remanufactured)	038 TC 20001 100
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2003 - 2009		GS33915

PART	YEAR	NOTES	PART NUMBER
<b>3</b>		<b>1948 CC (1.9L) DOHC 16V L4 3.54" (83.0mm)</b> Engine Codes: 'B4204T,B4204T2,B4204T3,B4204T4', VIN Code: '25' (2000 - 2004)	<b>3</b>
<b>Turbochargers</b>			
Turbocharger	2000 - 2004	(Condition New, with Actuator)	038 TC 20002 000
Turbocharger	2000 - 2004	(Condition Remanufactured, with Actuator)	038 TC 20002 100
<b>Gaskets</b>			
Turbocharger Mounting Gasket Set	2000 - 2004		GS33916

PART	YEAR	NOTES	PART NUMBER
<b>4</b>	<b>2435 CC (2.4L) DOHC 20V L5 3.54" (83.0mm)</b>	<b>Engine Code: 'B5244T7', VIN Code: '63' (2003 - 2004)</b>	<b>4</b>

**Turbochargers**

Turbocharger	2003 - 2004	(Condition New, w/ 1 Oil Feedline Outlet)	038 TC 20007 000
	2003 - 2004	(Condition Remanufactured, w/ 1 Oil Feedline Outlet)	038 TC 20007 100
	2003 - 2004	(Condition New, w/ 2 Oil Feedline Outlet)	038 TC 20008 000
	2003 - 2004	(Condition Remanufactured, w/ 2 Oil Feedline Outlet)	038 TC 20008 100

<b>5</b>	<b>2435 CC (2.4L) DOHC 20V L5 3.54" (83.0mm)</b>	<b>Engine Code: 'B5244T3' (2001 - 2003)</b>	<b>5</b>
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**Turbochargers**

Turbocharger	2001 - 2003	(Condition New, w/ 1 Oil Feedline Outlet)	038 TC 20007 000
	2001 - 2003	(Condition Remanufactured, w/ 1 Oil Feedline Outlet)	038 TC 20007 100
	2001 - 2003	(Condition New, w/ 2 Oil Feedline Outlet)	038 TC 20008 000
	2001 - 2003	(Condition Remanufactured, w/ 2 Oil Feedline Outlet)	038 TC 20008 100

<b>6</b>	<b>2435 CC (2.4L) DOHC 20V L5 3.54" (83.0mm)</b>	<b>Engine Code: 'B5244T', VIN Code: '56' (2000 - 2002)</b>	<b>6</b>
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**Turbochargers**

Turbocharger	2001 - 2002	(Condition New, w/ 1 Oil Feedline Outlet)	038 TC 20007 000
	2001 - 2002	(Condition Remanufactured, w/ 1 Oil Feedline Outlet)	038 TC 20007 100
	2001 - 2002	(Condition New, w/ 2 Oil Feedline Outlet)	038 TC 20008 000
	2001 - 2002	(Condition Remanufactured, w/ 2 Oil Feedline Outlet)	038 TC 20008 100
	2000	(Condition New, From Engine #(s) 2375009, w/ 1 Oil Feedline Outlet)	038 TC 20007 000
	2000	(Condition Remanufactured, From Engine #(s) 2375009, w/ 1 Oil Feedline Outlet)	038 TC 20007 100
	2000	(Condition New, From Engine #(s) 2375009, w/2 Oil Feedline Outlets)	038 TC 20008 000
	2000	(Condition Remanufactured, From Engine #(s) 2375009, w/2 Oil Feedline Outlets)	038 TC 20008 100

<b>7</b>	<b>2521 CC (2.5L) DOHC 20V L5 3.55" (83.3mm)</b>	<b>Engine Code: 'B5254T3', VIN Code: '68' (2004 - 2005)</b>	<b>7</b>
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**Turbochargers**

Turbocharger	2004 - 2005	(Condition Remanufactured)	038 TC 20003 100
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**Gaskets**

Turbocharger Mounting Gasket Set	2004 - 2005		GS33922
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<b>8</b>	<b>2316 CC (2.3L) SOHC 8V L4 3.15" (96.0mm)</b>	<b>Engine Code: 'B230FT', VIN Code: '8' (1985 - 1988)</b>	<b>8</b>
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**Turbochargers**

Turbocharger	1987 - 1988	(Condition Remanufactured)	038 TC 20005 100
	1985 - 1986	(Condition Remanufactured, w/Oil Cooling)	038 TC 20004 100
	1985 - 1986	(Condition Remanufactured, w/Water Cooling)	038 TC 20006 100



## VOLVO Truck

ENGINE	CODE	YEAR	BLOCK
2521 CC (2.5L) DOHC 20V L5 VOLVO	B5254T2	2003 - 2006	1

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>2521 CC (2.5L) DOHC 20V L5 3.67" (83.0mm) VOLVO</b> Engine Code: 'B5254T2', VIN Code: '59' (2003 - 2006)	<b>1</b>

### Turbochargers

Turbocharger	2003 - 2006	(Condition New, with Actuator)	038 TC 20001 000
	2003 - 2006	(Condition Remanufactured)	038 TC 20001 100

### Gaskets

Turbocharger Mounting Gasket Set	2005 - 2006		GS33915
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## VW

ENGINE	CODE	YEAR	BLOCK
116 CID (1.9L) SOHC 8V L4 VW Diesel	ALH	1998 - 2004	1
116 CID (1.9L) SOHC 8V L4 VW Diesel	1Z	1996 - 1999	2
116 CID (1.9L) SOHC 8V L4 VW Diesel	AHU	1996 - 1999	2
116 CID (1.9L) SOHC 8V L4 VW Diesel	AAZ	1996	3
116 CID (1.9L) SOHC 8V L4 VW Diesel	BEW	2004 - 2006	4
116 CID (1.9L) SOHC 8V L4 VW Diesel	BRM	2005 - 2006	5
1781 CC (1.8L) DOHC 20V L4 VW	AWW	2001	6
1781 CC (1.8L) DOHC 20V L4 VW	AWD	2000 - 2001	7
1781 CC (1.8L) DOHC 20V L4 VW	ATW	2000 - 2005	8
1781 CC (1.8L) DOHC 20V L4 VW	AUG	2000 - 2005	8
1781 CC (1.8L) DOHC 20V L4 VW	AWM	2000 - 2005	8
1781 CC (1.8L) DOHC 20V L4 VW	AWV	2001 - 2004	9
1781 CC (1.8L) DOHC 20V L4 VW	APH	1999 - 2001	10
1781 CC (1.8L) DOHC 20V L4 VW	AWP	2002 - 2006	11
120 CID (2.0L) DOHC 16V L4 VW Diesel	CRUA	2015	12
1781 CC (1.8L) DOHC 20V L4 VW	BKF	2005	13
120 CID (2.0L) SOHC 8V L4 VW Diesel	BHW	2004 - 2005	14
120 CID (2.0L) DOHC 16V L4 VW Diesel	CBEA	2009 - 2014	15
120 CID (2.0L) DOHC 16V L4 VW Diesel	CJAA	2009 - 2014	15
120 CID (2.0L) DOHC 16V L4 VW Diesel	CVCA	2015	16
1781 CC (1.8L) DOHC 20V L4 VW	AEB	1998 - 1999	17
121 CID (2.0L) DOHC 16V L4 VW	CCTA	2008 - 2017	18
121 CID (2.0L) DOHC 16V L4 VW	CBFA	2008 - 2017	19
121 CID (2.0L) DOHC 16V L4 VW	BPY	2006 - 2009	20
121 CID (2.0L) DOHC 16V L4 VW	CRZA	2012 - 2013	21

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>116 CID (1.9L) SOHC 8V L4 3.76" (79.5mm); Diesel</b> Engine Code: 'ALH', VIN Code: 'F' (1998 - 2004)	<b>1</b>

### Turbochargers

Turbocharger	2004	(Condition New, With Manifold/Actuator)	030 TC 15116 000
	2002 - 2004	(Condition Remanufactured, With Manifold/Actuator)	030 TC 15116 100
	2002 - 2003	(Condition New, With Manifold/Actuator)	030 TC 14233 000
	2001 - 2003	(Condition New, From 10/01/2001, With Manifold/Actuator)	030 TC 15116 000
	2001	(Condition New, To 09/30/2001, With Manifold/Actuator)	030 TC 14233 000

PART	YEAR	NOTES	PART NUMBER
<b>1</b> (cont.)		<b>116 CID (1.9L) SOHC 8V L4 3.76" (79.5mm); Diesel</b> Engine Code: 'ALH', VIN Code: 'F' (1998 - 2004)	<b>1</b> (cont.)

**Turbochargers**

<b>Turbocharger (cont.)</b>	1999 - 2000	(Condition New, From Vin # 9M1075841, From Vin # 1C1430001, With Manifold/Actuator)	<b>030 TC 15116 000</b>
	1998 - 2000	(Condition New, With Manifold/Actuator)	<b>030 TC 14233 000</b>

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	1998 - 2004	(Condition New)	<b>030 TH 14233 000</b>
<b>Turbocharger Mounting Kit</b>	2002 - 2004	(Condition New)	<b>030 TA 15116 000</b>
	1998 - 2003	(Condition New)	<b>030 TA 14233 000</b>
	2001	(Condition New, From Vin # 9M1075841)	<b>030 TA 15116 000</b>
	2001	(Condition New, From Vin # 1C1430001)	<b>030 TA 15116 000</b>
	2001	(Condition New)   GOLF	<b>030 TA 15116 000</b>
	1999 - 2000	(Condition New)	<b>030 TA 15116 000</b>
<b>Turbocharger Service Kit</b>	1998 - 2004	(Works for New)	<b>030 TS 20113 000</b>

<b>2</b>		<b>116 CID (1.9L) SOHC 8V L4 3.76" (79.5mm); Diesel</b> Engine Codes: '1Z,AHU', VIN Codes: 'F,G' (1996 - 1999)	<b>2</b>
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**Turbochargers**

<b>Turbocharger</b>	1996 - 1999	(Condition New, With Manifold/Actuator)	<b>030 TC 14156 000</b>
	1996 - 1999	(Condition Remanufactured)	<b>030 TC 14156 100</b>

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	1996 - 1999	(Condition New)	<b>030 TH 14156 000</b>
<b>Turbocharger Mounting Kit</b>	1996 - 1997	(Condition New)	<b>030 TA 14156 000</b>
<b>Turbocharger Service Kit</b>	1996 - 1999	(Works for New)	<b>030 TS 20115 000</b>

<b>3</b>		<b>116 CID (1.9L) SOHC 8V L4 3.76" (79.5mm); Diesel</b> Engine Code: 'AAZ' (1996)	<b>3</b>
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**Turbochargers**

<b>Turbocharger</b>	1996	(Condition New, With Manifold/Actuator)	<b>030 TC 14050 000</b>
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**Kits and Add-ons**

<b>Turbocharger Mounting Kit</b>	1996	(Condition New)	<b>030 TA 14050 000</b>
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<b>4</b>		<b>116 CID (1.9L) SOHC 8V L4 3.76" (79.5mm); Diesel</b> Engine Code: 'BEW' (2004 - 2006)	<b>4</b>
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**Turbochargers**

<b>Turbocharger</b>	2004 - 2006	(Condition New, With Manifold/Actuator)	<b>030 TC 20001 000</b>
	2004 - 2006	(Condition Remanufactured, With Manifold/Actuator)	<b>030 TC 20001 100</b>

**Kits and Add-ons**

<b>Turbocharger Cartridge</b>	2004 - 2006	(Condition New)	<b>030 TH 20001 000</b>
<b>Turbocharger Service Kit</b>	2004 - 2006	(Works for New)	<b>030 TS 20116 000</b>

<b>5</b>		<b>116 CID (1.9L) SOHC 8V L4 3.76" (79.5mm); Diesel</b> Engine Code: 'BRM' (2005 - 2006)	<b>5</b>
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**Turbochargers**

<b>Turbocharger</b>	2005 - 2006	(Condition New, With Manifold/Actuator)	<b>030 TC 20011 000</b>
	2005 - 2006	(Condition Remanufactured, With Manifold/Actuator)	<b>030 TC 20011 100</b>

PART	YEAR	NOTES	PART NUMBER
<b>5</b> (cont.)		<b>116 CID (1.9L) SOHC 8V L4 3.76" (79.5mm); Diesel</b> Engine Code: 'BRM' (2005 - 2006)	<b>5</b> (cont.)

## Kits and Add-ons

Turbocharger Service Kit	2005 - 2006	(Works for New)	030 TS 20113 000
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<b>6</b>		<b>1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm)</b> Engine Code: 'AWW' (2001)	<b>6</b>
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## Turbochargers

Turbocharger	2001	(Condition New)	030 TC 21202 000
	2001	(Condition Remanufactured)	030 TC 21202 100

## Kits and Add-ons

Turbocharger Cartridge	2001	(Condition New, From Chassis # 9M-1-056-881)	030 TH 21201 000
	2001	(Condition New)	030 TH 21201 000
	2001	(Condition New, To Chassis # 9M-1-056-880)	030 TH 21203 000
Turbocharger Mounting Kit	2001	(Condition New)	030 TA 21201 000
Turbocharger Service Kit	2001	(To Chassis # 9M-1-056-880, Works for New)	030 TS 20115 000

<b>7</b>		<b>1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm)</b> Engine Code: 'AWD' (2000 - 2001)	<b>7</b>
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## Turbochargers

Turbocharger	2000 - 2001	(Condition New)	030 TC 21202 000
	2000 - 2001	(Condition Remanufactured)	030 TC 21202 100

## Kits and Add-ons

Turbocharger Cartridge	2001	(Condition New, To Chassis # 9M-1-056-880)	030 TH 21203 000
	2000 - 2001	(Condition New)	030 TH 21203 000
Turbocharger Mounting Kit	2000 - 2001	(Condition New)	030 TA 21201 000
Turbocharger Service Kit	2001	(To Chassis # 9M-1-056-880, Works for New)	030 TS 20115 000
	2000 - 2001	(Works for New)	030 TS 20115 000

<b>8</b>		<b>1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm)</b> Engine Codes: 'ATW,AUG,AWM' (2000 - 2005)	<b>8</b>
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## Turbochargers

Turbocharger	2000 - 2005	(Condition New, With Manifold/Actuator)	030 TC 14082 000
	2000 - 2005	(Condition Remanufactured, With Manifold/Actuator)	030 TC 14082 100
	2000 - 2005	(Condition New, K04 Upgrade for Stock Turbo)	030 TC 14665 000

## Kits and Add-ons

Turbocharger Cartridge	2000 - 2005	(Condition New)	030 TH 14665 000
Turbocharger Mounting Kit	2000 - 2005	(Condition New)	030 TA 14082 000
	2000 - 2005	(Condition New, K04 Upgrade for Stock Turbo)	030 TA 14665 000
Turbocharger Service Kit	2000 - 2005	(Works for New)	030 TS 20114 000

<b>9</b>		<b>1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm)</b> Engine Code: 'AWV' (2001 - 2004)	<b>9</b>
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## Turbochargers

Turbocharger	2001 - 2004	(Condition New)	030 TC 21205 000
	2001 - 2004	(Condition Remanufactured)	030 TC 21205 100

PART	YEAR	NOTES	PART NUMBER
<b>9</b> (cont.)	<b>1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm)</b> Engine Code: 'AWV' (2001 - 2004)		<b>9</b> (cont.)
<b>Kits and Add-ons</b>			
Turbocharger Mounting Kit	2001 - 2004	(Condition New)	030 TA 21201 000
Turbocharger Service Kit	2001 - 2004	(Works for New)	030 TS 20115 000
<b>10</b>	<b>1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm)</b> Engine Code: 'APH' (1999 - 2001)		<b>10</b>
<b>Turbochargers</b>			
Turbocharger	1999 - 2001	(Condition New)	030 TC 21203 000
	1999 - 2001	(Condition Remanufactured)	030 TC 21203 100
<b>Kits and Add-ons</b>			
Turbocharger Cartridge	1999 - 2001	(Condition New)	030 TH 21203 000
Turbocharger Mounting Kit	2001	(Condition New)	030 TA 21201 000
Turbocharger Service Kit	1999 - 2001	(Works for New)	030 TS 20115 000
<b>11</b>	<b>1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm)</b> Engine Code: 'AWP' (2002 - 2006)		<b>11</b>
<b>Turbochargers</b>			
Turbocharger	2002 - 2006	(Condition New)	030 TC 21201 000
	2002 - 2006	(Condition Remanufactured)	030 TC 21201 100
<b>Kits and Add-ons</b>			
Turbocharger Cartridge	2002 - 2006	(Condition New)	030 TH 21201 000
Turbocharger Mounting Kit	2002 - 2006	(Condition New)	030 TA 21201 000
<b>12</b>	<b>120 CID (2.0L) DOHC 16V L4 3.76" (81.0mm); Diesel</b> Engine Code: 'CRUA' (2015)		<b>12</b>
<b>Turbochargers</b>			
Turbocharger	2015	(Condition New)	030 TC 11002 000
<b>Kits and Add-ons</b>			
Turbocharger Mounting Kit	2015	(Condition New)	030 TA 11002 000
<b>13</b>	<b>1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm)</b> Engine Code: 'BKF' (2005)		<b>13</b>
<b>Kits and Add-ons</b>			
Turbocharger Cartridge	2005	(Condition New)	030 TH 21201 000
Turbocharger Mounting Kit	2005	(Condition New)	030 TA 21201 000
<b>14</b>	<b>120 CID (2.0L) SOHC 8V L4 3.76" (81.0mm); Diesel</b> Engine Code: 'BHW' (2004 - 2005)		<b>14</b>
<b>Turbochargers</b>			
Turbocharger	2004 - 2005	(Condition New, With Manifold/Actuator)	030 TC 14364 000
	2004 - 2005	(Condition Remanufactured, With Manifold/Actuator)	030 TC 14364 100
<b>Kits and Add-ons</b>			
Turbocharger Mounting Kit	2004 - 2005	(Condition New)	030 TA 14364 000

PART	YEAR	NOTES	PART NUMBER
<b>15</b>		<b>120 CID (2.0L) DOHC 16V L4 3.76" (81.0mm); Diesel</b> Engine Codes: 'CBEA,CJAA' (2009 - 2014)	<b>15</b>

## Turbochargers

Turbocharger	2009 - 2014	(Condition New, With Manifold/Actuator)	030 TC 20023 000
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## Kits and Add-ons

Turbocharger Mounting Kit	2009 - 2014	(Condition New)	030 TA 20023 000
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<b>16</b>		<b>120 CID (2.0L) DOHC 16V L4 3.76" (81.0mm); Diesel</b> Engine Code: 'CVCA' (2015)	<b>16</b>
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## Turbochargers

Turbocharger	2015	(Condition New)	030 TC 11004 000
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## Kits and Add-ons

Turbocharger Mounting Kit	2015	(Condition New)	030 TA 11004 000
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<b>17</b>		<b>1781 CC (1.8L) DOHC 20V L4 3.40" (81.0mm)</b> Engine Code: 'AEB' (1998 - 1999)	<b>17</b>
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## Turbochargers

Turbocharger	1998 - 1999	(Condition New, With Manifold/Actuator)	030 TC 14306 000
	1998 - 1999	(Condition Remanufactured, With Manifold/Actuator)	030 TC 14306 100
	1998 - 1999	(Condition New, K04 Upgrade for Stock Turbo)	030 TC 14665 000

## Kits and Add-ons

Turbocharger Cartridge	1998 - 1999	(Condition New)	030 TH 14665 000
Turbocharger Mounting Kit	1998 - 1999	(Condition New)	030 TA 14306 000
	1998 - 1999	(Condition New, K04 Upgrade for Stock Turbo)	030 TA 14665 000
Turbocharger Service Kit	1998 - 1999	(Works for New)	030 TS 20114 000

<b>18</b>		<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm)</b> Engine Code: 'CCTA' (2008 - 2017)	<b>18</b>
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## Turbochargers

Turbocharger	2008 - 2017	(Condition Remanufactured)	030 TC 20024 100
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## Gaskets

Turbocharger Mounting Gasket Set	2008 - 2017		GS33921
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<b>19</b>		<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm)</b> Engine Code: 'CBFA' (2008 - 2017)	<b>19</b>
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## Turbochargers

Turbocharger	2008 - 2017	(Condition New, With Manifold/Actuator)	030 TC 20021 000
	2008 - 2017	(Condition Remanufactured, With Manifold/Actuator)	030 TC 20021 100

## Kits and Add-ons

Turbocharger Mounting Kit	2008 - 2017	(Condition New)	030 TA 14638 000
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<b>20</b>		<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm)</b> Engine Code: 'BPY' (2006 - 2009)	<b>20</b>
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## Turbochargers

Turbocharger	2006 - 2009	(Condition New, With Manifold/Actuator)	030 TC 20022 000
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PART	YEAR	NOTES	PART NUMBER
<b>20 (cont.)</b>		<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm)</b> Engine Code: 'BPY' (2006 - 2009)	<b>20 (cont.)</b>

**Turbochargers**

Turbocharger (cont.)	2006 - 2009	(Condition Remanufactured)	030 TC 20022 100
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**Kits and Add-ons**

Turbocharger Cartridge	2006 - 2009	(Condition New)	030 TH 20022 000
Turbocharger Mounting Kit	2006 - 2009	(Condition New)	030 TA 14638 000

<b>21</b>		<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm)</b> Engine Code: 'CRZA' (2012 - 2013)	<b>21</b>
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**Turbochargers**

Turbocharger	2012 - 2013	(Condition New, With Manifold)	030 TC 14638 000
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**VW Truck**

ENGINE	CODE	YEAR	BLOCK
121 CID (2.0L) DOHC 16V L4 VW	CCTA	2009 - 2018	1

PART	YEAR	NOTES	PART NUMBER
<b>1</b>		<b>121 CID (2.0L) DOHC 16V L4 3.65" (82.5mm) VW</b> Engine Code: 'CCTA' (2009 - 2018)	<b>1</b>

**Turbochargers**

Turbocharger	2009 - 2018	(Condition Remanufactured)	030 TC 20024 100
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**Gaskets**

Turbocharger Mounting Gasket Set	2009 - 2018		GS33921
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Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.	Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.
3500 MKII	6	426	7.0	4.250 / 5	1	670T	6	426	7.0	4.250 / 5	1
3700	6	426	7.0	4.250 / 5	1	D3500	6	426	7.0	4.250 / 5	1
670-I	6	426	7.0	4.250 / 5	1						

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>1</b>	Engine Codes: '3500 MKII, 3700, 670-I, 670T, D3500' 6 Cyl, 7.0L / 426 CID, Bore 108.0mm / 4.250", Stroke 127.0mm / 5.000"		<b>1</b>

**Turbochargers**

Turbocharger	(Condition New)	4029146 4036393	447 TC 24041 000



Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.	Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.
3054	4	243	4.0	3.937 / 5	1	3406E	6	893	14.6	5.400 / 6.5	15
3066	6	389	6.4	4.016 / 5.1	2	3456	6	996	15.8	5.500 / 6.8	17
3116	6	403	6.6	4.134 / 5	3	3508	8	2115	34.7	6.700 / 7.5	18
3126	6	442	7.2	4.331 / 5	4	C11	6	667	11.1	5.118 / 5.1	13
3126B	6	441	7.2	4.332 / 5	6	C13	6	763	12.5	5.118 / 6.8	14
3176	6	629	10.3	4.921 / 5.5	12	C15	6	928	15.2	5.400 / 6.7	16
3204	4	318	2.5	4.500 / 5	8	C16	6	964	15.8	5.512 / 6.8	17
3304	4	425	7.0	4.750 / 6	11	C7	6	441	7.2	4.331 / 5	5
3306	6	638	10.5	4.750 / 6	10	C9	6	537	8.8	4.410 / 5.9	7
3406	6	893	14.6	5.400 / 6.5	15	D333C	6	638	10.5	4.750 / 6	9

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>1</b>	<b>Engine Code: '3054'</b> 4 Cyl, 4.0L / 243 CID, Bore 100.0mm / 3.937", Stroke 127.0mm / 5.000"		<b>1</b>

### Turbochargers

Turbocharger	(Condition New)	OE INTERCHANGE NUMBER	PART NUMBER
		0R4543 7C3446 7C4930	127 TC 20187 000

<b>2</b>	<b>Engine Code: '3066'</b> 6 Cyl, 6.4L / 389 CID, Bore 102.0mm / 4.016", Stroke 130.0mm / 5.118"		<b>2</b>
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### Turbochargers

Turbocharger	(Condition New)	OE INTERCHANGE NUMBER	PART NUMBER
		518018	127 TC 15123 000

<b>3</b>	<b>Engine Code: '3116'</b> 6 Cyl, 6.6L / 403 CID, Bore 105.0mm / 4.134", Stroke 127.0mm / 5.000"; Turbocharged		<b>3</b>
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### Turbochargers

Turbocharger	(Condition New)	OE INTERCHANGE NUMBER	PART NUMBER
		0R9802 10R0364 1981845	127 TC 21101 000

<b>4</b>	<b>Engine Code: '3126'</b> 6 Cyl, 7.2L / 442 CID, Bore 110.0mm / 4.331", Stroke 127.0mm / 5.000"		<b>4</b>
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### Turbochargers

Turbocharger	(Condition New)	OE INTERCHANGE NUMBER	PART NUMBER
		0R9865 1559661	127 TC 21005 000
		0R7569 1660327	127 TC 21208 000
		10R1795 2375271	127 TC 21211 000

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>4</b> (cont.)	<b>Engine Code: '3126'</b> 6 Cyl, 7.2L / 442 CID, Bore 110.0mm / 4.331", Stroke 127.0mm / 5.000"		<b>4</b> (cont.)

**Turbochargers**

<b>Turbocharger Service Kit</b>	Equivalent To Borg Warner 318394 S300 Turbocharger Service Kit	Exclusive	<b>127 TS 21206 100</b>
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<b>5</b>	<b>Engine Code: 'C7'</b> 6 Cyl, 7.2L / 441 CID, Bore 110.0mm / 4.331", Stroke 127.0mm / 5.000"; Turbocharged		<b>5</b>
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**Turbochargers**

<b>Turbocharger</b>	(Condition New)	10R1888 2321811 2913997	<b>127 TC 21204 000</b>
	(Condition New)	10R1103 10R3280 2283228	<b>127 TC 21206 000</b>
	(Condition New)	10R1795 2375271	<b>127 TC 21211 000</b>

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	Consolidated Set	2690064 3125932	<b>GS33660</b>
	Consolidated Set	3184348 3189648 3255171	<b>GS33666</b>

<b>6</b>	<b>Engine Code: '3126B'</b> 6 Cyl, 7.2L / 441 CID, Bore 110.0mm / 4.332", Stroke 127.0mm / 5.000"; Turbocharged-Intercooled		<b>6</b>
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**Turbochargers**

<b>Turbocharger</b>	(Condition New)	0R9865 1559661	<b>127 TC 21005 000</b>
	(Condition New)	0R7569 1660327	<b>127 TC 21208 000</b>

<b>7</b>	<b>Engine Code: 'C9'</b> 6 Cyl, 8.8L / 537 CID, Bore 112.0mm / 4.410", Stroke 149.1mm / 5.870"; Turbocharged		<b>7</b>
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**Turbochargers**

<b>Turbocharger</b>	(Condition New)	10R8733 2847707	<b>127 TC 21202 000</b>
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PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>8</b>	<b>Engine Code: '3204'</b> 4 Cyl, 2.5L / 318 CID, Bore 114.3mm / 4.500", Stroke 127.0mm / 5.000"		<b>8</b>

**Turbochargers**

<b>Turbocharger</b>	(Condition New)	0R5824 6N6515	<b>127 TC 15121 000</b>
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<b>9</b>	<b>Engine Code: 'D333C'</b> 6 Cyl, 10.5L / 638 CID, Bore 120.7mm / 4.750", Stroke 152.4mm / 6.000"		<b>9</b>
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**Turbochargers**

<b>Turbocharger</b>	(Condition New)	0R5809 4N8969	<b>127 TC 17332 000</b>
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<b>10</b>	<b>Engine Code: '3306'</b> 6 Cyl, 10.5L / 638 CID, Bore 120.7mm / 4.750", Stroke 152.4mm / 6.000"		<b>10</b>
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**Turbochargers**

<b>Turbocharger</b>	(Condition New)	0R5807 7N7748	<b>127 TC 15122 000</b>
	(Condition New)	2191911	<b>127 TC 20186 000</b>
	(Condition New)	0R5812 4N9618	<b>127 TC 21102 000</b>
	(Condition New)	0R5385 4N9544	<b>127 TC 21103 000</b>
	(Condition New)	0R6342 7C8632	<b>127 TC 21104 000</b>
	(Condition New)	0R7213 1430522	<b>127 TC 24164 000</b>
	(Condition New)	0R6829 1106979	<b>127 TC 24169 000</b>
	(Condition New)	0R6376 4P9584	<b>127 TC 24174 000</b>
	(Condition New)	0R5799 4N6859	<b>127 TC 27057 000</b>
<b>Turbocharger Cartridge</b>	For OE Turbochargers 4N8969, Recon 0R5809	0R5809 6N1524	<b>127 TH 17332 000</b>
	For OE Turbochargers 1137924, Recon 0R6882	0R6884 2146914	<b>127 TH 20004 000</b>
	For OE Turbochargers 7C7577, Recon 0R6697	313716 7C7599	<b>127 TH 20005 000</b>

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>11</b>	<b>Engine Code: '3304'</b> 4 Cyl, 7.0L / 425 CID, Bore 120.7mm / 4.750", Stroke 152.4mm / 6.000"		<b>11</b>

**Turbochargers**

Turbocharger	(Condition New)	0R5796 7N4651	127 TC 15120 000
	(Condition New)	0R5799 4N6859	127 TC 27057 000
Turbocharger Cartridge	For OE Turbochargers 4N6858, 1W5160, 2W1953, 2W7095, 7N1709, 7N4651, 7N9851, 1108762, Recon 0R5799, 0R5796, 0R6710, 20R3168	0R5888 4N6860	127 TH 27057 000

<b>12</b>	<b>Engine Code: '3176'</b> 6 Cyl, 10.3L / 629 CID, Bore 125.0mm / 4.921", Stroke 139.7mm / 5.500"; Turbocharged		<b>12</b>
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**Turbochargers**

Turbocharger	(Condition New)	0R6877	127 TC 24088 000
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<b>13</b>	<b>Engine Code: 'C11'</b> 6 Cyl, 11.1L / 667 CID, Bore 130.0mm / 5.118", Stroke 130.0mm / 5.120"; Turbocharged		<b>13</b>
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**Turbochargers**

Turbocharger	(Condition New)	10R2027 2395581	127 TC 21205 000
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<b>14</b>	<b>Engine Code: 'C13'</b> 6 Cyl, 12.5L / 763 CID, Bore 130.0mm / 5.118", Stroke 173.2mm / 6.818"; Turbocharged		<b>14</b>
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**Turbochargers**

Turbocharger	Prefix JAM, High Pressure Turbocharger (Condition New)	10R8733 2847707	127 TC 21202 000
	(Condition New)	10R2027 2395581	127 TC 21205 000

<b>15</b>	<b>Engine Codes: '3406, 3406E'</b> 6 Cyl, 14.6L / 893 CID, Bore 137.2mm / 5.400", Stroke 165.1mm / 6.500"; Turbocharged		<b>15</b>
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**Turbochargers**

Turbocharger	(Condition New)	0R5796 7N4651	127 TC 15120 000
	(Condition New)	0R5733 0R6957	127 TC 21003 000
	(Condition New)	0R6167 4P2061	127 TC 24100 000

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>15</b> <b>(cont.)</b>	<b>Engine Codes: '3406, 3406E'</b> 6 Cyl, 14.6L / 893 CID, Bore 137.2mm / 5.400", Stroke 165.1mm / 6.500"; Turbocharged		<b>15</b> <b>(cont.)</b>

**Turbochargers**

Turbocharger	Notes	OE Interchange Number	Part Number
	(Condition New), For 3406C And 3406E Engine	0R7087 0R7202 176-7716	127 TC 24111 000
	(Condition New)	0R7205 0R9928	127 TC 24112 000
	(Condition New)	0R7285 0R7924	127 TC 24113 000
	(Condition New)	0R7203 0R7923 1666752	127 TC 24114 000
	(Condition New)	0R7200 1418936 6I4574	127 TC 24116 000
	(Condition New)	0R6165 4P2059	127 TC 24162 000
	(Condition New)	0R6166 4P2060	127 TC 24163 000

<b>16</b>	<b>Engine Code: 'C15'</b> 6 Cyl, 15.2L / 928 CID, Bore 137.2mm / 5.400", Stroke 171.0mm / 6.732"		<b>16</b>
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**Turbochargers**

Turbocharger	Notes	OE Interchange Number	Part Number
	(Condition New)	261-6857	127 TC 20185 000
	(Condition New), High Pressure For Caterpillar C15	10R1887 10R2407 2514820	127 TC 21201 000
	(Condition New), Low Pressure For Caterpillar C15	10R1888 2321811 2913997	127 TC 21204 000

<b>17</b>	<b>Engine Codes: '3456, C16'</b> 6 Cyl, 15.8L / 996 CID, Bore 139.7mm / 5.500", Stroke 171.5mm / 6.750"; Turbocharged-Aftercooled		<b>17</b>
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**Turbochargers**

Turbocharger	Notes	OE Interchange Number	Part Number
	(Condition New)	0R7285 0R7924	127 TC 24113 000

<b>18</b>	<b>Engine Code: '3508'</b> 8 Cyl, 34.7L / 2115 CID, Bore 170.2mm / 6.700", Stroke 190.5mm / 7.500"		<b>18</b>
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**Turbochargers**

Turbocharger Cartridge	Notes	OE Interchange Number	Part Number
	For Turbocharges 7C2859, 1020280	7C2860	127 TH 20002 000

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
18 (cont.)	Engine Code: '3508' 8 Cyl, 34.7L / 2115 CID, Bore 170.2mm / 6.700", Stroke 190.5mm / 7.500"		18 (cont.)

**Turbochargers**

Turbocharger Cartridge	For Turbochargers 7W3483, 7W9410, 1020291, 1020297, 1020300, 1228043, 0R6796, 0R7162, 0R7164	0R6327 0R6801 0R7165 7W3570	127 TH 20003 000
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Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.	Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.
-	6	359	5.9	4.020 / 4.7	3	ISB 200	6	408	6.7	4.210 / 4.9	4
-	6	408	6.7	4.210 / 4.9	4	ISX, QSX 15L	6	912	15.0	5.400 / 6.7	9
4B-3.9	4	239	3.9	4.016 / 4.7	1	L10	6	611	10.0	4.921 / 5.4	8
6B-5.9	6	359	5.9	4.016 / 4.7	2	M11, ISM, QSM	6	661	10.8	4.921 / 5.8	7
6B-6.7	6	408	6.7	4.210 / 4.9	5	N14	6	855	14.0	5.500 / 6	11
6C-8.3, ISC, QSC	6	505	8.3	4.488 / 5.3	6	NT-855	6	855	14.0	5.500 / 6	12
ETJ	6	408	6.7	4.210 / 4.9	4	V-1710	12	1710	28.0	5.500 / 6	10

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>1</b>	<b>Engine Code: '4B-3.9'</b> 4 Cyl, 3.9L / 239 CID, Bore 102.0mm / 4.016", Stroke 120.0mm / 4.724"		<b>1</b>

**Turbochargers**

Turbocharger	Notes	OE Interchange Number	Part Number
Turbocharger	(Condition New), 4TA-390	3520030 3802290	<b>286 TC 14234 000</b>
	(Condition New), Elite 4BT	3800709	<b>286 TC 15390 000</b>
	(Condition New), Elite 4BTA	3802906	<b>286 TC 17385 000</b>

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>2</b>	<b>Engine Code: '6B-5.9'</b> 6 Cyl, 5.9L / 359 CID, Bore 102.0mm / 4.016", Stroke 120.0mm / 4.724"		<b>2</b>

**Turbochargers**

Turbocharger	Notes	OE Interchange Number	Part Number
Turbocharger	(Condition New)	3527047 3803108 4049440	<b>183 TC 24563 000</b>
	(Condition New), 6BT	3802289	<b>286 TC 14015 000</b>
	(Condition New), 6BT, 6CT	3802126 3910877 3919201	<b>286 TC 15267 000</b>
	(Condition New) 1999.5-2002 Ram 2500/3500, Manual Transmission, For Engines Rated 230-245 HP	3592766	<b>286 TC 21002 000</b>
	(Condition New) 1994-1995 Dodge Truck, For Automatic & Manual, For Engines Rated 160-175 HP, without 240 Horsepower Engine	3539911 3802839 3804964	<b>286 TC 21003 000</b>
	(Condition New) 1996-1998 Dodge Truck And Bus, with Federal Emissions, For Automatic, Engines Rated At 180 HP	3802678 3802992	<b>286 TC 21007 000</b>
	(Condition Remanufactured) 1996-1998 Dodge Truck And Bus, For Engines Rated At 180 HP, with Federal Emissions	3539369 3802992	<b>286 TC 21007 100</b>
	(Condition New), For Automatic & Manual, From 06/01/98 to 12/01/98, For Engines Rated At 215 HP	3539394 3802946	<b>286 TC 21008 000</b>
	(Condition New), Family HY35W	3599811 4035044	<b>286 TC 21010 000</b>
	(Condition New)	3800990	<b>286 TC 21103 000</b>
	(Condition New), with Diesel Tracking, with Actuator	4089642	<b>286 TC 25004 000</b>



PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>2</b> <b>(cont.)</b>	<b>Engine Code: '6B-5.9'</b> 6 Cyl, 5.9L / 359 CID, Bore 102.0mm / 4.016", Stroke 120.0mm / 4.724"		<b>2</b> <b>(cont.)</b>

**Turbochargers**

Turbocharger	(Condition New), with Actuator, Family HE351CW	4043600 4089673	286 TC 25042 000
	(Condition New)	3802770	286 TC 31102 000

**Gaskets**

Turbocharger Mounting Gasket Set		Exclusive	GS33582
		Exclusive	GS33583
	Contains OE#'s: 3931824, 3919369, 3678786, 3678603(2), And 4931365	See Note	GS33584

<b>3</b>	<b>Engine Code: "</b> 6 Cyl, 5.9L / 359 CID, Bore 102.0mm / 4.020", Stroke 120.0mm / 4.720"; Turbocharged		<b>3</b>
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**Turbochargers**

Turbocharger	1999.5-2002 Ram 2500/3500, Condition New, Manual Transmission, For Engines Rated 230-245 HP	3592766	286 TC 21002 000
	(Condition Remanufactured)		286 TC 21002 100
	(Condition New), Family HY35W	3599811 4035044	286 TC 21010 000
	(Condition Remanufactured)		286 TC 21010 100
	(Condition New), with Diesel Tracking, with Actuator	4089642	286 TC 25004 000
	(Condition Remanufactured), with Diesel Tracking		286 TC 25004 100
	(Condition New), with Actuator, Family HE351CW	4043600 4089673	286 TC 25042 000
	Condition Remanufactured		286 TC 25042 100
Turbocharger Cartridge	(Condition New)		286 TH 21002 000
	(Condition New)		286 TH 21010 000
	(Condition New)		286 TH 25004 000
	(Condition New)		286 TH 25042 000
Turbocharger Service Kit	Works for New		286 TS 20116 000
	Works for New		286 TS 20118 000

**Gaskets**

Turbocharger Mounting Gasket Set		Exclusive	GS33583
	Contains OE#'s: 3931824, 3919369, 3678786, 3678603(2), And 4931365	See Note	GS33584

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>4</b>	<b>Engine Codes: 'ETJ, ISB 200'</b> 6 Cyl, 6.7L / 408 CID, Bore 107.0mm / 4.210", Stroke 124.0mm / 4.880"; Turbocharged		<b>4</b>

**Turbochargers**

Turbocharger	(Condition Remanufactured), with Actuator pre-Flashed	4955361 4955361NX	286 TC 21101 100
	(Condition Remanufactured), New OEM Actuator pre-Flashed, Truck Only, Not For Cab And Chassis		286 TC 21104 100
Turbocharger Service Kit	Works for New		286 TS 21101 000

**Gaskets**

Turbocharger Mounting Gasket Set	Installation Kit, Contains OE#'s: Turbocharger Mounting Gasket 5260648(1)+Drainback Gasket 5264568(1)+O-Ring 3678603(2)+O-Ring 3678786(1)+O-Ring 3883284(1)+O-Ring 3922794(2)+O-Ring 3928624(2), Multi-Layered Steel	See Note	GS33616
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<b>5</b>	<b>Engine Code: '6B-6.7'</b> 6 Cyl, 6.7L / 408 CID, Bore 106.9mm / 4.210", Stroke 124.0mm / 4.880"; Turbocharged		<b>5</b>
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**Turbochargers**

Turbocharger	(Condition Remanufactured), with Actuator pre-Flashed	4955361 4955361NX	286 TC 21101 100
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**Gaskets**

Turbocharger Mounting Gasket Set	Installation Kit, Contains OE#'s: Turbocharger Mounting Gasket 5260648(1)+Drainback Gasket 5264568(1)+O-Ring 3678603(2)+O-Ring 3678786(1)+O-Ring 3883284(1)+O-Ring 3922794(2)+O-Ring 3928624(2), Multi-Layered Steel	See Note	GS33616
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<b>6</b>	<b>Engine Code: '6C-8.3, ISC, QSC'</b> 6 Cyl, 8.3L / 505 CID, Bore 114.0mm / 4.488", Stroke 135.1mm / 5.320"; Turbocharged-Aftercooled		<b>6</b>
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**Turbochargers**

Turbocharger	(Condition New)	3800400	183 TC 23538 000
	(Condition Remanufactured), 6CTA	3800400 4955657	183 TC 23538 100
	(Condition New), 6BT, 6CT	3802126 3910877 3919201	286 TC 15267 000
	(Condition New), Industrial	3538352 3804858	286 TC 21102 000
	(Condition New), 6CTA, Freightliner, Encore	3800383	286 TC 24929 000
	(Condition New)	3802770	286 TC 31102 000

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>6</b> (cont.)	<b>Engine Code: '6C-8.3, ISC, QSC'</b> 6 Cyl, 8.3L / 505 CID, Bore 114.0mm / 4.488", Stroke 135.1mm / 5.320"; Turbocharged-Aftercooled		<b>6</b> (cont.)

**Turbochargers**

Turbocharger	(Condition New)	3535619	286 TC 31104 000
		3535620	
		3535636	
		3802810	
		4044188	
Turbocharger Cartridge		4044990	183 TH 20002 000
		3533013	
		3533014	
		3533132	
		3533372	
		3533373	
		3535324	
		4027612	
		4027849	

<b>7</b>	<b>Engine Code: 'M11, ISM, QSM'</b> 6 Cyl, 10.8L / 661 CID, Bore 125.0mm / 4.921", Stroke 147.1mm / 5.790"; Turbocharged		<b>7</b>
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**Turbochargers**

Turbocharger	(Condition New), Truck And Bus	3590044 3800471	286 TC 21006 000
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<b>8</b>	<b>Engine Code: 'L10'</b> 6 Cyl, 10.0L / 611 CID, Bore 125.0mm / 4.921", Stroke 136.0mm / 5.354"; L10 Turbocharged and Turbocharged w/ Aftercooler.		<b>8</b>
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**Turbochargers**

Turbocharger	(Condition New), L10	3803586	183 TC 24276 000
	(Condition New), LTA10	3803570	183 TC 25331 000
	(Condition New), LTA10	3525238 3803024	286 TC 15235 000
	(Condition New), L10	3803109	286 TC 16102 000
	(Condition New), LTA10	3801489	286 TC 24275 000

<b>9</b>	<b>Engine Code: 'ISX, QSX 15L'</b> 6 Cyl, 15.0L / 912 CID, Bore 137.2mm / 5.400", Stroke 169.0mm / 6.653"		<b>9</b>
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**Turbochargers**

Turbocharger Service Kit	For Turbocharger 286 TC 21201 000	See Note	286 TS 21201 000
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PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>9</b> <b>(cont.)</b>	<b>Engine Code: 'ISX, QSX 15L'</b> 6 Cyl, 15.0L / 912 CID, Bore 137.2mm / 5.400", Stroke 169.0mm / 6.653"		<b>9</b> <b>(cont.)</b>

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	Contains: Turbo Mounting Gasket 3102314(1)+Turbo Mounting Gasket 3680324(1)+Turbo Mounting Gasket 3693798(1)+Connection Gasket 3684359(1)+Drainback Flange Gasket 3101268(1)+Grommet 3678762(4)+Sealing Washer 3684284(1)+O-Ring 3627695(3)+O-Ring 3678786(2)+O-Ring 3678603(1)+O-Ring 3678912(1)+O-Ring 3679139(1)+O-Ring 3682177(1)	3102314 3684359 3922794 4026884	<b>GS33617</b>
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<b>10</b>	<b>Engine Code: 'V-1710'</b> 12 Cyl, 28.0L / 1710 CID, Bore 139.7mm / 5.500", Stroke 152.4mm / 6.000"	<b>10</b>
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**Turbochargers**

<b>Turbocharger</b>	(Condition New)	3527047 3803108 4049440	<b>183 TC 24563 000</b>
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<b>11</b>	<b>Engine Code: 'N14'</b> 6 Cyl, 14.0L / 855 CID, Bore 139.7mm / 5.500", Stroke 152.4mm / 6.000"	<b>11</b>
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**Turbochargers**

<b>Turbocharger</b>	(Condition New), NTA14	3803583 3804800	<b>286 TC 24555 000</b>
	(Condition New), N14, Truck	3803584 3804801	<b>286 TC 24556 000</b>
	(Condition New)	3803553	<b>286 TC 24557 000</b>

<b>12</b>	<b>Engine Code: 'NT-855 '</b> 6 Cyl, 14.0L / 855 CID, Bore 139.7mm / 5.500", Stroke 152.4mm / 6.000"; Turbocharged-Aftercooled	<b>12</b>
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**Turbochargers**

<b>Turbocharger</b>	(Condition New)	3522866 3801613 3801617	<b>183 TC 24517 000</b>
	(Condition New)	3522872 3801599	<b>183 TC 24518 000</b>
	(Condition New)	3522867 3801614	<b>183 TC 24519 000</b>
	(Condition New)	3529040	<b>183 TC 24562 000</b>
	(Condition New)	3527047 3803108 4049440	<b>183 TC 24563 000</b>
	(Condition New)	3525998 3801918	<b>183 TC 24564 000</b>

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
12 (cont.)	Engine Code: 'NT-855 ' 6 Cyl, 14.0L / 855 CID, Bore 139.7mm / 5.500", Stroke 152.4mm / 6.000"; Turbocharged-Aftercooled		12 (cont.)

**Turbochargers**

Turbocharger	(Condition New)	3801591	286 TC 24516 000
	(Condition New)	3803553	286 TC 24557 000

Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.
60 Series (12.7L)	6	778	12.7	5.118 / 6.3	1
60 Series (14.0L)	6	855	14.0	5.236 / 6.6	2

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>1</b>	<b>Engine Code: '60 Series (12.7L)'</b> 6 Cyl, 12.7L / 778 CID, Bore 130.0mm / 5.118", Stroke 160.0mm / 6.299"; Turbocharged, SOHC		<b>1</b>

### Turbochargers

Turbocharger	Condition	OE Part Number	MAHLE Part Number
	(Condition New)	23528065	098 TC 21101 000
	(Condition New)	23504966 23504967	098 TC 24130 000
	(Condition New)	23503732 23507908	098 TC 24131 000
	(Condition New)	23508410	098 TC 24132 000
	(Condition New)	23508405 23528029	098 TC 24133 000
	(Condition New)	23515635 23516431	098 TC 24136 000
	(Condition New)	23523197	098 TC 24137 000
	(Condition New)	23528066	098 TC 25592 000
	(Condition New)	23528059	098 TC 25606 000

<b>2</b>	<b>Engine Code: '60 Series (14.0L)'</b> 6 Cyl, 14.0L / 855 CID, Bore 133.0mm / 5.236", Stroke 168.0mm / 6.614"; Turbocharged, SOHC		<b>2</b>
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### Turbochargers

Turbocharger	Condition	OE Part Number	MAHLE Part Number
	(Condition New)	23534361	098 TC 20173 000
	(Condition New)	23534775	098 TC 20195 000

Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.
-	6	473	7.8	/	1

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>1</b>	<b>7.8L Series</b> 6 Cyl, 7.8L / 473 CID; Turbocharged		<b>1</b>

**Turbochargers**

Turbocharger	(Condition New)	E7HN 6K682-EB	014 TC 31103 000
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Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.	Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.
-	8	445	7.3	4.110 / 4.2	1	DT466	6	466	7.6	4.300 / 5.4	4
-	8	445	7.3	4.110 / 4.2	2	DTA466	6	466	7.6	4.300 /	5
-	8	445	7.3	4.110 / 4.2	3						

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>1</b>	<b>Engine Code: "</b> 8 Cyl, 7.3L / 445 CID, Bore 104.4mm / 4.110", Stroke 106.2mm / 4.180"; Turbocharged		<b>1</b>

## Turbochargers

Turbocharger	(Condition Remanufactured), Vin K		014 TC 24004 100
Turbocharger Service Kit	Works for New		014 TS 24004 000

<b>2</b>	<b>Engine Code: "</b> 8 Cyl, 7.3L / 445 CID, Bore 104.4mm / 4.110", Stroke 106.2mm / 4.180"; Naturally Aspirated		<b>2</b>
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## Turbochargers

Turbocharger	(Condition Remanufactured), Vin K		014 TC 24004 100
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<b>3</b>	<b>Engine Code: "</b> 8 Cyl, 7.3L / 445 CID, Bore 104.4mm / 4.110", Stroke 106.2mm / 4.180"; Turbocharged		<b>3</b>
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## Turbochargers

Turbocharger	(Condition Remanufactured), Vin K		014 TC 24004 100
	(Condition New), 1994 to 1998.5, Turbo Only, A/R Rating 1.00, Family TP38		144 TC 24008 000
	(Condition New), Turbo Only, A/R Rating 0.84, Family TP38		144 TC 24010 000
Turbocharger Mount	(Condition Remanufactured)		144 TP 24007 100
Turbocharger Service Kit	Works for New		014 TS 24004 000

<b>4</b>	<b>Engine Code: 'DT466'</b> 6 Cyl, 7.6L / 466 CID, Bore 109.2mm / 4.300", Stroke 135.9mm / 5.350"; Turbocharged, NAVISTAR		<b>4</b>
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## Turbochargers

Turbocharger	(Condition New)		144 TC 21002 000
	(Condition New)		144 TC 21102 000

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
5	Engine Code: 'DTA466' 6 Cyl, 7.6L / 466 CID, Bore 109.2mm / 4.300", Stroke .0mm / .000"; Turbocharged, NAVISTAR From Engine S/N 618496		5

## Turbochargers

Turbocharger	(Condition New), Turbo Family: S300S024		144 TC 24267 000
	(Condition New), Turbo Family: T04E13		144 TC 24294 000

Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.	Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.
6068 PT	6	414	6.8	4.193 / 5	2	6466A	6	466	7.6	4.562 / 4.8	4
6068D/T	6	414	6.8	4.193 / 5	1	6466T	6	466	7.6	4.562 / 4.8	4
6081 PT	6	496	8.1	4.563 / 5.1	5	6466T/F/A	6	466	7.6	4.562 / 5	3

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>1</b>	<b>Engine Code: '6068D/T'</b> 6 Cyl, 6.8L / 414 CID, Bore 106.5mm / 4.193", Stroke 127.0mm / 5.000"		<b>1</b>

**Turbochargers**

Turbocharger	(Condition New)	RE60074	128 TC 20167 000
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<b>2</b>	<b>Engine Code: '6068 PT'</b> 6 Cyl, 6.8L / 414 CID, Bore 106.5mm / 4.193", Stroke 127.0mm / 5.000"		<b>2</b>
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**Turbochargers**

Turbocharger	(Condition New)	RE60074	128 TC 20167 000
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<b>3</b>	<b>Engine Code: '6466T/F/A'</b> 6 Cyl, 7.6L / 466 CID, Bore 115.9mm / 4.562", Stroke 127.0mm / 5.000"; Turbocharged-Aftercooled		<b>3</b>
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**Turbochargers**

Turbocharger	(Condition New)	RE19780	128 TC 24046 000
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<b>4</b>	<b>Engine Codes: '6466A, 6466T'</b> 6 Cyl, 7.6L / 466 CID, Bore 115.9mm / 4.562", Stroke 120.7mm / 4.750"; Turbocharged		<b>4</b>
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**Turbochargers**

Turbocharger	(Condition New)	AR87421 RE19784	128 TC 24045 000
	(Condition New)	RE19780	128 TC 24046 000

<b>5</b>	<b>Engine Code: '6081 PT'</b> 6 Cyl, 8.1L / 496 CID, Bore 115.9mm / 4.563", Stroke 128.5mm / 5.059"		<b>5</b>
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**Turbochargers**

Turbocharger	(Condition New)	SE500430	128 TC 24778 000
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Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.
E6	6	672	11.0	4.875 / 6	1
E7	6	730	11.9	4.875 / 6.5	2

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>1</b>	<b>Engine Code: 'E6'</b> 6 Cyl, 11.0L / 672 CID, Bore 123.8mm / 4.875", Stroke 152.4mm / 6.000"		<b>1</b>

**Turbochargers**

Turbocharger	Notes	OE Interchange Number	Part Number
Turbocharger	(Condition New), Mack Truck E6 With ETZ-673 Engine, Turbo Family: 4LE-303	631GC463 631GC5103	<b>193 TC 24651 000</b>
	(Condition New), Mack Truck E6 With ETZ-673A, ETZ-675 Engine, Turbo Family: 4LE-354	631GC487P1	<b>193 TC 24652 000</b>
	(Condition New), Mack Truck ENDT-676A, ETSX-675 Engine, Turbo Family: 4LE-292	631GC485A 631GC5100P2	<b>193 TC 24656 000</b>
	(Condition New), Mack Truck EM6-285, ETSZ-676A Engine, Turbo Family: 4LE-292	631GC5105P7	<b>193 TC 24657 000</b>

<b>2</b>	<b>Engine Code: 'E7'</b> 6 Cyl, 11.9L / 730 CID, Bore 123.8mm / 4.875", Stroke 165.1mm / 6.500"; 1979-2011		<b>2</b>
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**Turbochargers**

Turbocharger	Notes	OE Interchange Number	Part Number
Turbocharger	(Condition New), Mack Truck E7 12L, Turbo Family: S300A113	631GC5172AM5 631GC5172M5	<b>193 TC 24277 000</b>
	(Condition New), Mack Truck EM6-285, ETSZ-676A Engine, Turbo Family: 4LE-292	631GC5105P7	<b>193 TC 24657 000</b>

Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.	Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.
OM 366 LA	6	366	6.0	3.839 / 5.2	4	OM 904 LA	4	259	4.3	4.016 / 5.1	5
OM 612 LA	5	164	2.7	3.465 / 3.5	3	EPA98 / Euro 2 / 3					
OM 642	6	183	3.0	3.270 / 3.6	1	OM 906 LA	6	390	6.4	4.016 / 5.1	7
OM 647 LA	5	164	2.7	3.465 / 3.5	2	EPA98 / Euro 2 / 3					
OM 904 LA EPA04	4	259	4.3	4.016 / 5.1	6	OM 924 LA	4	293	4.8	4.173 / 5.4	8
						EPA04 / Euro 3 / 5					

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>1</b>	<b>Engine Code: 'OM 642'</b> 6 Cyl, 3.0L / 183 CID, Bore 83.0mm / 3.270", Stroke 92.0mm / 3.620"; Turbocharged		<b>1</b>

**Turbochargers**

<b>Turbocharger</b>	(Condition New), With Actuator	6420906980	<b>001 TC 18127 000</b>
<b>Turbocharger Mounting Kit</b>	(Condition New)		<b>001 TA 18126 000</b>

<b>2</b>	<b>Engine Code: 'OM 647 LA'</b> 5 Cyl, 2.7L / 164 CID, Bore 88.0mm / 3.465", Stroke 88.4mm / 3.479"; Dodge Sprinter		<b>2</b>
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**Turbochargers**

<b>Turbocharger</b>	(Condition New)	6470900280	<b>001 TC 21102 000</b>
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<b>3</b>	<b>Engine Code: 'OM 612 LA'</b> 5 Cyl, 2.7L / 164 CID, Bore 88.0mm / 3.465", Stroke 88.4mm / 3.480"; Dodge Sprinter		<b>3</b>
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**Turbochargers**

<b>Turbocharger</b>	(Condition New)	A6120960399	<b>001 TC 15049 000</b>
<b>Turbocharger Mounting Kit</b>	(Condition New)		<b>001 TA 15049 000</b>

<b>4</b>	<b>Engine Code: 'OM 366 LA'</b> 6 Cyl, 6.0L / 366 CID, Bore 97.5mm / 3.839", Stroke 133.0mm / 5.236"; Turbocharged		<b>4</b>
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**Turbochargers**

<b>Turbocharger</b>	(Condition New)	376 096 70 99 376 096 71 99	<b>001 TC 31101 000</b>
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PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>5</b>	<b>Engine Code: 'OM 904 LA EPA98 / Euro 2 / 3'</b> 4 Cyl, 4.3L / 259 CID, Bore 102.0mm / 4.016", Stroke 130.0mm / 5.118"; Turbocharged-Aftercooled, EPA98 / Euro 2 Engine Models: OM904.904-912, 921-924, 926, 929-935, 937-941, 943, 945, 948-949, 954-957, 962, 965-968, 974 Engine Models: OM907.910, 920, 930, 940-941, 960, 970, 980, 990 Euro 3 Engine Models: OM904.970, 972, 973		<b>5</b>

**Turbochargers**

Turbocharger	(Condition New)	904 096 90 99 9040969099	001 TC 21101 000
	Oil Drain Tube	904 997 02 82	TURBODRAIN1

<b>6</b>	<b>Engine Code: 'OM 904 LA EPA04'</b> 4 Cyl, 4.3L / 259 CID, Bore 102.0mm / 4.016", Stroke 130.0mm / 5.118"; Turbocharged-Intercooled , Engine Model: OM900.910		<b>6</b>
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**Turbochargers**

Turbocharger	Oil Drain Tube	904 997 02 82	TURBODRAIN1
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<b>7</b>	<b>Engine Code: 'OM 906 LA EPA98 / Euro 2 / 3'</b> 6 Cyl, 6.4L / 390 CID, Bore 102.0mm / 4.016", Stroke 130.0mm / 5.118"; Turbocharged-Aftercooled, EPA98 / Euro 2 Engine Models: OM906.910-914, 917-924, 929-930, 932-934, 936-938, 940-941, 944-948, 953-954, 956-959, 966-968, 970, 974-981, 983, 985-986, 988, 990. OM909.910-911, 920-921, 960, 970-971 Euro 3 Engine Model: OM906.995		<b>7</b>
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**Turbochargers**

Turbocharger	(Condition New)	9060965199	001 TC 31102 000
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<b>8</b>	<b>Engine Code: 'OM 924 LA EPA04 / Euro 3 / 5'</b> 4 Cyl, 4.8L / 293 CID, Bore 106.0mm / 4.173", Stroke 136.0mm / 5.354"; Turbocharged-Aftercooled, Euro 3 Engine Models: OM924.913, 915-916, 920, 924, 928 Euro 5 Engine Model: OM924.932		<b>8</b>
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**Turbochargers**

Turbocharger	(Condition New)	9240961799	001 TC 31103 000
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Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.	Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.
6.0L	8	363	6.0	3.740 / 4.1	1	DVT573	8	573	9.4	4.500 / 4.5	6
6.4L	8	390	6.4	3.867 / 4.1	2	I530	6	530	8.7	4.590 / 5.4	11
7.3L, T444E	8	444	7.3	4.111 / 4.2	3	Maxxforce 10	6	570	9.3	4.590 / 5.7	8
DT466	6	466	7.6	4.300 / 5.4	4	Maxxforce 9	6	570	9.3	4.590 / 5.8	10
DT466E	6	466	7.6	4.300 / 5.4	5	Maxxforce DT	6		7.6	4.590 / 4.7	9
DT570, HT570	6	570	9.3	4.590 / 5.8	7						

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>1</b>	<b>Engine Code: '6.0L'</b> 8 Cyl, 6.0L / 363 CID, Bore 95.0mm / 3.740", Stroke 105.0mm / 4.134"; Turbocharged-Intercooled		<b>1</b>

### Turbochargers

Turbocharger	(Condition Remanufactured), Turbo Only	1832159C92 1843761C93 1845178C98 1846765C91 1846767C91 1854480C91 1856152C91	<b>014 TC 26159 100</b>
	(Condition Remanufactured), From 09/29/03	5010424R93	<b>015 TC 21006 100</b>
Turbocharger Service Kit	To Engine Number 094580 or To Engine Number 6155636, Works for New		<b>015 TS 21006 100</b>

### Gaskets

Turbocharger Mounting Gasket Set	Gasket, Oil Feed Line 1836770C3(1)+O-Ring 1818404C2(2)+O-Ring 1844579C1(1)	1840053C97	<b>GS33576</b>
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<b>2</b>	<b>Engine Code: '6.4L'</b> 8 Cyl, 6.4L / 390 CID, Bore 98.2mm / 3.867", Stroke 105.0mm / 4.134"; Turbocharged, Powerstroke		<b>2</b>
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### Turbochargers

Turbocharger	(Condition Remanufactured), Pressure Low	1848301C1	<b>014 TC 21101 100</b>
	(Condition Remanufactured), Without Actuator, Pressure High	1848303C3	<b>014 TC 21102 100</b>
Turbocharger Service Kit	Works for Service Kit For High Pressure And Low Pressure Turbocharger	4307304R91 4307305R91	<b>014 TS 21101 100</b>

### Gaskets

Turbocharger Mounting Gasket Set	Molded Rubber	1873429C96	<b>GS33566</b>
	Master Set Contains All Miscellaneous Gaskets and Seals Needed for Turbocharger Installation, Molded Rubber	1873429C96	<b>GS33566A</b>

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>3</b>	<b>Engine Code: '7.3L, T444E'</b> 8 Cyl, 7.3L / 444 CID, Bore 104.4mm / 4.111", Stroke 106.2mm / 4.181"; Turbocharged, Direct Injection		<b>3</b>

**Turbochargers**

<b>Turbocharger</b>	(Condition Remanufactured), 1998.5 to 1999.5, w/ Pedestal	1825878C92	014 TC 24006 100
	(Condition Remanufactured), w/ Pedestal, A/R Rating 1.15, Family TP38	1820612C91 1822702C92 1825818C92	014 TC 24007 100
	(Condition New), 1994 to 1998.5, Turbo Only, A/R Rating 1.00, Family TP38	1820642C91 1820646C91	144 TC 24008 000
	(Condition New), Turbo Only, A/R Rating 0.84, Family TP38		144 TC 24010 000

**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>	Steel, Includes Turbo Mounting Gasket 1822120C1(1)+Drain Back Gasket 1831227C1(1)+O-Ring 1815561C1(2)+O-Ring 1815560C1(2)+O-Ring 181872C1 (1)		GS33656
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<b>4</b>	<b>Engine Code: 'DT466'</b> 6 Cyl, 7.6L / 466 CID, Bore 109.2mm / 4.300", Stroke 135.9mm / 5.350"; Model A, B, C, S/N Prefixes 466, 467, 468		<b>4</b>
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**Turbochargers**

<b>Turbocharger</b>	(Condition New)	1806077C91 1806078C91 1806079C91 1806080C91	144 TC 21006 000
	(Condition New)	4307282R91 991637C91	144 TC 21103 000
	(Condition New)	684698C91 749282C91	144 TC 24682 000
<b>Turbocharger Cartridge</b>	For Turbochargers, 1817310C91, 991637C91	1809696C91 991532C91	144 TH 21103 000

<b>5</b>	<b>Engine Code: 'DT466E'</b> 6 Cyl, 7.6L / 466 CID, Bore 109.2mm / 4.300", Stroke 135.9mm / 5.350"; Turbocharged-Intercooled , S/N Prefix 469H		<b>5</b>
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**Turbochargers**

<b>Turbocharger</b>	(Condition New)	1825632C91 1825632C93	144 TC 21003 000
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**Gaskets**

<b>Turbocharger Mounting Gasket Set</b>		1842623C96	GS33641
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PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>6</b>	<b>Engine Code: 'DVT573'</b> 8 Cyl, 9.4L / 573 CID, Bore 114.3mm / 4.500", Stroke 114.3mm / 4.500"		<b>6</b>

**Turbochargers**

Turbocharger	(Condition New)	684698C91 691059C91	144 TC 21005 000
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<b>7</b>	<b>Engine Code: 'DT570, HT570'</b> 6 Cyl, 9.3L / 570 CID, Bore 116.6mm / 4.590", Stroke 146.1mm / 5.752"; Turbocharged-Aftercooled, S/N Prefix 570H Below S/N 2000000		<b>7</b>
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**Turbochargers**

Turbocharger	(Condition New)	1842337C95 1870932C93 5010314R96	144 TC 21008 000
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<b>8</b>	<b>Engine Code: 'Maxxforce 10'</b> 6 Cyl, 9.3L / 570 CID, Bore 116.6mm / 4.590", Stroke 146.0mm / 5.748"		<b>8</b>
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**Gaskets**

Turbocharger Mounting Gasket Set		1842623C96	GS33641
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<b>9</b>	<b>Engine Code: 'Maxxforce DT'</b> 6 Cyl, 7.6L, Bore 116.6mm / 4.590", Stroke 118.9mm / 4.680"		<b>9</b>
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**Turbochargers**

Turbocharger	(Condition New)	1832204C94 1871090C93	144 TC 21101 000
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**Gaskets**

Turbocharger Mounting Gasket Set		1842623C96	GS33641
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<b>10</b>	<b>Engine Code: 'Maxxforce 9'</b> 6 Cyl, 9.3L / 570 CID, Bore 116.6mm / 4.590", Stroke 146.1mm / 5.750"; Turbocharged-Intercooled		<b>10</b>
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**Gaskets**

Turbocharger Mounting Gasket Set		1842623C96	GS33641
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PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
11	<b>Engine Code: 'I530'</b> 6 Cyl, 8.7L / 530 CID, Bore 116.6mm / 4.590", Stroke 135.9mm / 5.350"; Turbocharged, 530G S/N Prefix, PLN Fuel System		11

**Turbochargers**

Turbocharger	(Condition New)	1826344C91 1826344C93	144 TC 21002 000
	(Condition New)	1826344C92 2506782C91	144 TC 21102 000

Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.
1004.2T	4		4.0	3.937 / 5	3
T 4.40	4	243	4.0	3.937 / 5	2
T 6.354	6		5.8	3.878 /	1

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
<b>1</b>	<b>Engine Code: 'T 6.354'</b> 6 Cyl, 5.8L, Bore 98.5mm / 3.878", Stroke .0mm / .000"		<b>1</b>

**Turbochargers**

Turbocharger	(Condition New)	26743674	043 TC 21101 000
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<b>2</b>	<b>Engine Code: 'T 4.40'</b> 4 Cyl, 4.0L / 243 CID, Bore 100.0mm / 3.937", Stroke 127.0mm / 5.000"		<b>2</b>
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**Turbochargers**

Turbocharger	(Condition New)	2674A094 2674A371	043 TC 10996 000
	(Condition New)	2674A375 2674A375P	043 TC 17973 000

<b>3</b>	<b>Engine Code: '1004.2T'</b> 4 Cyl, 4.0L, Bore 100.0mm / 3.937", Stroke 127.0mm / 5.000"		<b>3</b>
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**Turbochargers**

Turbocharger	(Condition New)	2674400	043 TC 10737 000
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Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.	Model	No. Cyls.	CID	Liter	Bore / Stroke	Line No.
D12D 365	6	740	12.1	5.157 / 5.9	1	D12D 435	6	740	12.1	5.157 / 5.9	1
D12D 395	6	740	12.1	5.157 / 5.9	1	D12D 465	6	740	12.1	5.157 / 5.9	1
D12D 425	6	740	12.1	5.157 / 5.9	1						

PART	NOTES	OE INTERCHANGE NUMBER	PART NUMBER
1	Engine Codes: 'D12D 365, D12D 395, D12D 425, D12D 435, D12D 465' 6 Cyl, 12.1L / 740 CID, Bore 131.0mm / 5.157", Stroke 150.0mm / 5.906"		1

## Gaskets

Turbocharger Mounting Gasket Set		276807	GS33734
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**NUMERICAL LISTING**

001 TA 15049 000	DODGE Truck: 2; FREIGHTLINER Truck: 2; MERCEDES-BENZ HD: 3	014 TC 22001 100	FORD: 6, 7; FORD Truck: 5	015 TC 21003 000	FORD Truck: 12
001 TA 18126 000	DODGE Truck: 1; JEEP Truck: 2; MERCEDES-BENZ: 3, 5; MERCEDES-BENZ Truck: 3, 5; MERCEDES-BENZ HD: 1	014 TC 22002 100	FORD Truck: 5	015 TC 21003 100	FORD Truck: 12
001 TC 15049 000	DODGE Truck: 2; FREIGHTLINER Truck: 2; MERCEDES-BENZ HD: 3	014 TC 22003 100	FORD Truck: 5	015 TC 21006 000	FORD Truck: 8
001 TC 15049 100	DODGE Truck: 2; FREIGHTLINER Truck: 2	014 TC 24004 100	FORD Truck: 11, 13; INTERNATIONAL HD: 1, 2, 3	015 TC 21006 100	FORD Truck: 8; NAVISTAR HD: 1
001 TC 18126 000	JEEP Truck: 2; MERCEDES- BENZ: 3, 5; MERCEDES-BENZ Truck: 3, 5	014 TC 24005 000	FORD Truck: 12	015 TC 21009 000	FORD Truck: 8
001 TC 18126 100	JEEP Truck: 2; MERCEDES- BENZ: 3, 5; MERCEDES-BENZ Truck: 3, 5	014 TC 24005 100	FORD Truck: 12	015 TH 21003 000	FORD Truck: 12
001 TC 18127 000	DODGE Truck: 1; FREIGHTLINER Truck: 1; MERCEDES-BENZ: 4; MERCEDES-BENZ Truck: 4; MERCEDES-BENZ HD: 1	014 TC 24006 100	FORD Truck: 12; NAVISTAR HD: 3	015 TH 21004 000	FORD Truck: 12
001 TC 18127 100	DODGE Truck: 1; FREIGHTLINER Truck: 1; MERCEDES-BENZ: 4; MERCEDES-BENZ Truck: 4	014 TC 24007 100	FORD Truck: 12; NAVISTAR HD: 3	015 TP 21003 000	FORD Truck: 12
001 TC 21101 000	MERCEDES-BENZ HD: 5	014 TC 24008 000	FORD Truck: 12	015 TP 21004 000	FORD Truck: 12
001 TC 21102 000	DODGE Truck: 2; FREIGHTLINER Truck: 2; MERCEDES-BENZ HD: 2	014 TC 24008 100	FORD Truck: 12	015 TP 21006 100	FORD Truck: 8; NAVISTAR HD: 1
001 TC 21102 100	DODGE Truck: 2; FREIGHTLINER Truck: 2	014 TC 24009 000	FORD Truck: 12	015 TX 21003 000	FORD Truck: 12
001 TC 21103 100	MERCEDES-BENZ: 6	014 TC 24010 000	FORD Truck: 12	015 TX 21003 100	FORD Truck: 12
001 TC 31101 000	MERCEDES-BENZ HD: 4	014 TC 24010 100	FORD Truck: 12	015 TX 21004 000	FORD Truck: 12
001 TC 31102 000	MERCEDES-BENZ HD: 7	014 TC 24011 000	FORD Truck: 12	015 TX 21006 000	FORD Truck: 8
001 TC 31103 000	MERCEDES-BENZ HD: 8	014 TC 24013 000	FORD Truck: 12	015 TX 21103 000	FORD Truck: 12
001 TH 18126 000	DODGE Truck: 2; FREIGHTLINER Truck: 2; JEEP Truck: 2; MERCEDES-BENZ: 4, 5; MERCEDES-BENZ Truck: 3, 4	014 TC 24013 100	FORD Truck: 12	030 TA 11002 000	AUDI: 4; VW: 12
001 TH 18127 000	DODGE Truck: 1; FREIGHTLINER Truck: 1	014 TC 24020 000	FORD Truck: 6	030 TA 11004 000	VW: 16
001 TH 21102 000	DODGE Truck: 2; FREIGHTLINER Truck: 2	014 TC 24020 100	FORD Truck: 6	030 TA 14050 000	VW: 3
001 TS 18126 000	DODGE Truck: 1; FREIGHTLINER Truck: 1; JEEP Truck: 2; MERCEDES-BENZ: 4, 5; MERCEDES-BENZ Truck: 3, 4	014 TC 24021 000	FORD Truck: 6	030 TA 14082 000	AUDI: 2; VW: 8
001 TX 18127 000	DODGE Truck: 1; FREIGHTLINER Truck: 1	014 TC 24021 100	FORD Truck: 6	030 TA 14156 000	VW: 2
011 TC 18989 000	GMC: 1; GMC Truck: 1	014 TC 24022 000	FORD Truck: 6, 7	030 TA 14233 000	VW: 1
011 TC 20001 000	GMC: 2	014 TC 24022 100	FORD Truck: 6, 7	030 TA 14306 000	AUDI: 8; VW: 17
011 TC 20002 100	GMC: 3, 4, 5	014 TC 24023 000	FORD Truck: 6, 7	030 TA 14364 000	VW: 14
014 TC 21101 000	FORD Truck: 9	014 TC 24023 100	FORD Truck: 6, 7	030 TA 14638 000	AUDI: 13, 14; VW: 19, 20
014 TC 21101 100	FORD Truck: 9; NAVISTAR HD: 2	014 TC 24024 000	FORD: 8, 9; FORD Truck: 6, 7	030 TA 14665 000	AUDI: 2, 8; VW: 8, 17
014 TC 21102 000	FORD Truck: 9	014 TC 24025 000	FORD: 8, 9; FORD Truck: 6, 7	030 TA 15091 000	AUDI: 6
014 TC 21102 100	FORD Truck: 9; NAVISTAR HD: 2	014 TC 25001 100	FORD Truck: 10	030 TA 15116 000	VW: 1
014 TC 21103 000	FORD Truck: 9	014 TC 25002 100	FORD Truck: 10	030 TA 20023 000	AUDI: 7; VW: 15
014 TC 21103 100	FORD Truck: 9	014 TC 26158 000	FORD Truck: 12	030 TA 20168 000	AUDI: 12
014 TC 21104 100	FORD Truck: 9	014 TC 26159 100	FORD Truck: 8; NAVISTAR HD: 1	030 TA 21201 000	AUDI: 1, 3, 5; VW: 6, 7, 9, 10, 11, 13
014 TC 21105 100	FORD Truck: 9	014 TC 26160 000	FORD Truck: 8	030 TC 11002 000	AUDI: 4; VW: 12
014 TC 22001 000	FORD: 6, 7; FORD Truck: 5	014 TC 26160 100	FORD Truck: 8	030 TC 11004 000	VW: 16
		014 TC 31103 000	FORD HD: 1	030 TC 14050 000	VW: 3
		014 TH 21101 000	FORD Truck: 9	030 TC 14082 000	AUDI: 2; VW: 8
		014 TH 21102 000	FORD Truck: 9	030 TC 14082 100	AUDI: 2; VW: 8
		014 TH 24005 000	FORD Truck: 12	030 TC 14156 000	VW: 2
		014 TH 24020 000	FORD Truck: 6	030 TC 14156 100	VW: 2
		014 TH 24021 000	FORD Truck: 6	030 TC 14233 000	VW: 1
		014 TH 26159 000	FORD Truck: 8	030 TC 14306 000	AUDI: 8; VW: 17
		014 TH 26160 000	FORD Truck: 8	030 TC 14306 100	AUDI: 8; VW: 17
		014 TP 24005 100	FORD Truck: 12	030 TC 14364 000	VW: 14
		014 TS 20116 000	FORD Truck: 12	030 TC 14364 100	VW: 14
		014 TS 20117 000	FORD Truck: 12	030 TC 14638 000	AUDI: 15; VW: 21
		014 TS 20136 000	FORD Truck: 9	030 TC 14665 000	AUDI: 2, 8; VW: 8, 17
		014 TS 20145 000	FORD Truck: 9	030 TC 15091 000	AUDI: 6
		014 TS 21101 100	FORD Truck: 9; NAVISTAR HD: 2	030 TC 15091 100	AUDI: 6
		014 TS 24004 000	FORD Truck: 11; INTERNATIONAL HD: 1, 3	030 TC 15116 000	VW: 1
		014 TS 24020 000	FORD Truck: 6	030 TC 15116 100	VW: 1
		014 TS 24021 000	FORD Truck: 6	030 TC 20001 000	VW: 4
		014 TS 26159 100	FORD Truck: 8	030 TC 20001 100	VW: 4
		014 TX 20001 000	FORD Truck: 8	030 TC 20011 000	VW: 5
		014 TX 21101 000	FORD Truck: 9	030 TC 20011 100	VW: 5
		014 TX 21102 000	FORD Truck: 9	030 TC 20021 000	AUDI: 14; VW: 19
		014 TX 24007 100	FORD Truck: 11, 12, 13	030 TC 20021 100	AUDI: 14; VW: 19
		014 TX 26160 000	FORD Truck: 8	030 TC 20022 000	AUDI: 13; VW: 20
				030 TC 20022 100	AUDI: 13; VW: 20
				030 TC 20023 000	AUDI: 7; VW: 15

# NUMERICAL LISTING

030 TC 20024 100 AUDI: 16; AUDI Truck: 1; VW: 18; VW Truck: 1	082 TC 20184 000 BMW: 1	128 TC 24778 000 JOHN DEERE HD: 5
030 TC 20166 000 AUDI: 17; AUDI Truck: 2	082 TC 20184 100 BMW: 1	144 TC 21002 000 INTERNATIONAL HD: 4; NAVISTAR HD: 11
030 TC 20166 100 AUDI: 17; AUDI Truck: 2	082 TC 20186 000 MINI: 1	144 TC 21003 000 NAVISTAR HD: 5
030 TC 20167 100 AUDI: 11, 17; AUDI Truck: 3	082 TC 20187 000 MINI: 2	144 TC 21005 000 NAVISTAR HD: 6
030 TC 20168 000 AUDI: 12	082 TH 20181 000 MINI: 4	144 TC 21006 000 NAVISTAR HD: 4
030 TC 20168 100 AUDI: 12	098 TC 20173 000 DETROIT DIESEL HD: 2	144 TC 21008 000 NAVISTAR HD: 7
030 TC 21201 000 AUDI: 3; VW: 11	098 TC 20195 000 DETROIT DIESEL HD: 2	144 TC 21101 000 NAVISTAR HD: 9
030 TC 21201 100 AUDI: 3; VW: 11	098 TC 21101 000 DETROIT DIESEL HD: 1	144 TC 21102 000 INTERNATIONAL HD: 4; NAVISTAR HD: 11
030 TC 21202 000 AUDI: 1; VW: 6, 7	098 TC 24130 000 DETROIT DIESEL HD: 1	144 TC 21103 000 NAVISTAR HD: 4
030 TC 21202 100 AUDI: 1; VW: 6, 7	098 TC 24131 000 DETROIT DIESEL HD: 1	144 TC 24007 100 FORD Truck: 12
030 TC 21203 000 VW: 10	098 TC 24132 000 DETROIT DIESEL HD: 1	144 TC 24008 000 FORD Truck: 12; INTERNATIONAL HD: 3; NAVISTAR HD: 3
030 TC 21203 100 VW: 10	098 TC 24133 000 DETROIT DIESEL HD: 1	144 TC 24010 000 FORD Truck: 12; INTERNATIONAL HD: 3; NAVISTAR HD: 3
030 TC 21204 000 AUDI: 5	098 TC 24136 000 DETROIT DIESEL HD: 1	144 TC 24010 100 FORD Truck: 12
030 TC 21204 100 AUDI: 5	098 TC 24137 000 DETROIT DIESEL HD: 1	144 TC 24267 000 INTERNATIONAL HD: 5
030 TC 21205 000 VW: 9	098 TC 25592 000 DETROIT DIESEL HD: 1	144 TC 24294 000 INTERNATIONAL HD: 5
030 TC 21205 100 VW: 9	098 TC 25606 000 DETROIT DIESEL HD: 1	144 TC 24682 000 NAVISTAR HD: 4
030 TC 21206 000 AUDI: 5	127 TC 15120 000 CATERPILLAR HD: 11, 15	144 TH 21103 000 NAVISTAR HD: 4
030 TC 21206 100 AUDI: 5	127 TC 15121 000 CATERPILLAR HD: 8	144 TP 24007 100 FORD Truck: 11, 12; INTERNATIONAL HD: 3
030 TC 22001 100 AUDI: 9	127 TC 15122 000 CATERPILLAR HD: 10	183 TC 23538 000 CUMMINS HD: 6
030 TC 22002 100 AUDI: 9	127 TC 15123 000 CATERPILLAR HD: 2	183 TC 23538 100 CUMMINS HD: 6
030 TC 22003 000 AUDI: 9, 10	127 TC 17332 000 CATERPILLAR HD: 9	183 TC 24276 000 CUMMINS HD: 8
030 TC 22003 100 AUDI: 9, 10	127 TC 20185 000 CATERPILLAR HD: 16	183 TC 24517 000 CUMMINS HD: 12
030 TC 22004 000 AUDI: 9, 10	127 TC 20186 000 CATERPILLAR HD: 10	183 TC 24518 000 CUMMINS HD: 12
030 TC 22004 100 AUDI: 9, 10	127 TC 20187 000 CATERPILLAR HD: 1	183 TC 24519 000 CUMMINS HD: 12
030 TH 14156 000 VW: 2	127 TC 21003 000 CATERPILLAR HD: 15	183 TC 24562 000 CUMMINS HD: 12
030 TH 14233 000 VW: 1	127 TC 21005 000 CATERPILLAR HD: 4, 6	183 TC 24563 000 CUMMINS HD: 2, 10, 12
030 TH 14665 000 AUDI: 2, 8; VW: 8, 17	127 TC 21101 000 CATERPILLAR HD: 3	183 TC 24564 000 CUMMINS HD: 12
030 TH 15091 000 AUDI: 5, 6	127 TC 21102 000 CATERPILLAR HD: 10	183 TC 25331 000 CUMMINS HD: 8
030 TH 20001 000 VW: 4	127 TC 21103 000 CATERPILLAR HD: 10	183 TH 20002 000 CUMMINS HD: 6
030 TH 20022 000 AUDI: 12, 13; VW: 20	127 TC 21104 000 CATERPILLAR HD: 10	193 TC 24277 000 MACK HD: 2
030 TH 21201 000 AUDI: 3; VW: 6, 11, 13	127 TC 21201 000 CATERPILLAR HD: 16	193 TC 24651 000 MACK HD: 1
030 TH 21203 000 AUDI: 1; VW: 6, 7, 10	127 TC 21202 000 CATERPILLAR HD: 7, 14	193 TC 24652 000 MACK HD: 1
030 TH 22001 000 AUDI: 9, 10	127 TC 21204 000 CATERPILLAR HD: 5, 16	193 TC 24656 000 MACK HD: 1
030 TS 20113 000 DODGE Truck: 2; FREIGHTLINER Truck: 2; JEEP Truck: 3; SAAB: 3; VW: 1, 5	127 TC 21205 000 CATERPILLAR HD: 13, 14	193 TC 24657 000 MACK HD: 1, 2
030 TS 20114 000 AUDI: 2, 8; VW: 8, 17	127 TC 21206 000 CATERPILLAR HD: 5	222 TC 20001 000 SMART: 1
030 TS 20115 000 AUDI: 1; VW: 2, 6, 7, 9, 10	127 TC 21208 000 CATERPILLAR HD: 4, 6	286 TC 14015 000 CUMMINS HD: 2
030 TS 20116 000 VW: 4	127 TC 21211 000 CATERPILLAR HD: 4, 5	286 TC 14234 000 CUMMINS HD: 1
038 TC 20001 000 VOLVO: 2; VOLVO Truck: 1	127 TC 24088 000 CATERPILLAR HD: 12	286 TC 15235 000 CUMMINS HD: 8
038 TC 20001 100 VOLVO: 2; VOLVO Truck: 1	127 TC 24100 000 CATERPILLAR HD: 15	286 TC 15267 000 CUMMINS HD: 2, 6
038 TC 20002 000 VOLVO: 3	127 TC 24111 000 CATERPILLAR HD: 15	286 TC 15390 000 CUMMINS HD: 1
038 TC 20002 100 VOLVO: 3	127 TC 24112 000 CATERPILLAR HD: 15	286 TC 16102 000 CUMMINS HD: 8
038 TC 20003 100 VOLVO: 1, 7	127 TC 24113 000 CATERPILLAR HD: 15, 17	286 TC 17385 000 CUMMINS HD: 1
038 TC 20004 100 VOLVO: 8	127 TC 24114 000 CATERPILLAR HD: 15	286 TC 20118 000 DODGE Truck: 3
038 TC 20005 100 VOLVO: 8	127 TC 24116 000 CATERPILLAR HD: 15	286 TC 20118 100 DODGE Truck: 3
038 TC 20006 100 VOLVO: 8	127 TC 24162 000 CATERPILLAR HD: 15	286 TC 21002 000 DODGE Truck: 3; CUMMINS HD: 2, 3
038 TC 20007 000 VOLVO: 4, 5, 6	127 TC 24163 000 CATERPILLAR HD: 15	286 TC 21002 100 DODGE Truck: 3; CUMMINS HD: 3
038 TC 20007 100 VOLVO: 4, 5, 6	127 TC 24164 000 CATERPILLAR HD: 10	286 TC 21003 000 DODGE Truck: 4; CUMMINS HD: 2
038 TC 20008 000 VOLVO: 4, 5, 6	127 TC 24169 000 CATERPILLAR HD: 10	286 TC 21003 100 DODGE Truck: 4
038 TC 20008 100 VOLVO: 4, 5, 6	127 TC 24174 000 CATERPILLAR HD: 10	286 TC 21006 000 CUMMINS HD: 7
043 TC 10737 000 PERKINS HD: 3	127 TC 27057 000 CATERPILLAR HD: 10, 11	286 TC 21007 000 DODGE Truck: 3, 4; CUMMINS HD: 2
043 TC 10996 000 PERKINS HD: 2	127 TH 17332 000 CATERPILLAR HD: 10	
043 TC 17973 000 PERKINS HD: 2	127 TH 20002 000 CATERPILLAR HD: 18	
043 TC 21101 000 PERKINS HD: 1	127 TH 20003 000 CATERPILLAR HD: 18	
081 TC 23500 000 MINI: 5	127 TH 20004 000 CATERPILLAR HD: 10	
082 TC 20181 000 MINI: 4	127 TH 20005 000 CATERPILLAR HD: 10	
082 TC 20181 100 MINI: 4	127 TH 27057 000 CATERPILLAR HD: 11	
082 TC 20183 000 BMW: 1, 2	127 TS 21206 100 CATERPILLAR HD: 4	
082 TC 20183 100 BMW: 1, 2	128 TC 20167 000 JOHN DEERE HD: 1, 2	
	128 TC 24045 000 JOHN DEERE HD: 4	
	128 TC 24046 000 JOHN DEERE HD: 3, 4	

# NUMERICAL LISTING

286 TC 21007 100 DODGE Truck: 3, 4; CUMMINS HD: 2	286 TX 21010 000 DODGE Truck: 3, 4	599 TH 21005 000 GMC Truck: 5, 7
286 TC 21008 000 DODGE Truck: 3, 4; CUMMINS HD: 2	286 TX 25042 000 DODGE Truck: 3, 4, 5	599 TH 21006 000 GMC Truck: 3, 7
286 TC 21008 100 DODGE Truck: 3, 4	447 TC 24041 000 ALLIS CHALMERS HD: 1	599 TH 21007 000 GMC Truck: 9
286 TC 21010 000 DODGE Truck: 3, 4; CUMMINS HD: 2, 3	479 TC 20174 000 SAAB: 4	599 TH 21102 000 GMC Truck: 2, 4
286 TC 21010 100 DODGE Truck: 3, 4; CUMMINS HD: 3	479 TC 20175 000 SAAB: 7, 8	599 TH 24522 000 GMC Truck: 2
286 TC 21025 000 DODGE Truck: 4	479 TC 20175 100 SAAB: 7, 8	599 TS 21005 000 GMC Truck: 3, 5, 7, 8, 9
286 TC 21025 100 DODGE Truck: 4	479 TC 20176 100 SAAB: 4	599 TX 21005 000 GMC Truck: 5
286 TC 21026 000 DODGE Truck: 4	479 TC 20177 000 SAAB: 1	599 TX 21006 000 GMC Truck: 3, 7
286 TC 21026 100 DODGE Truck: 4	479 TC 20177 100 SAAB: 1	599 TX 21007 000 GMC Truck: 9
286 TC 21027 000 DODGE Truck: 4	479 TC 20178 000 SAAB: 5, 6, 10	599 TX 21103 000 GMC Truck: 7
286 TC 21027 100 DODGE Truck: 4	479 TC 20178 100 SAAB: 5, 6, 10	607 TC 20180 000 SUBARU: 8
286 TC 21029 000 DODGE Truck: 4	479 TC 20179 000 SAAB: 2	607 TC 20180 100 SUBARU: 8
286 TC 21029 100 DODGE Truck: 4	479 TC 20179 100 SAAB: 2	627 TC 20001 000 MAZDA Truck: 1
286 TC 21030 100 DODGE Truck: 3, 4	479 TC 20185 000 SAAB: 3	627 TC 20001 100 MAZDA Truck: 1
286 TC 21101 100 DODGE Truck: 5; CUMMINS HD: 4, 5	479 TC 20185 100 SAAB: 3	627 TC 20002 000 MAZDA: 3
286 TC 21102 000 CUMMINS HD: 6	479 TH 20175 000 SAAB: 7, 8	627 TC 20002 100 MAZDA: 3
286 TC 21102 100 DODGE Truck: 6, 7	479 TH 20176 000 SAAB: 4	627 TH 20001 000 MAZDA Truck: 1
286 TC 21103 000 CUMMINS HD: 2	479 TH 20176 000 SAAB: 4	627 TH 20002 000 MAZDA: 3; MAZDA Truck: 1
286 TC 21103 100 DODGE Truck: 6, 7	479 TH 20178 000 SAAB: 5, 6, 10	627 TS 20001 000 MAZDA: 3; MAZDA Truck: 1
286 TC 21104 100 DODGE Truck: 5; CUMMINS HD: 4	479 TH 20179 000 SAAB: 2	631 TC 20001 100 ACURA Truck: 1
286 TC 24275 000 CUMMINS HD: 8	479 TH 20185 000 SAAB: 3	640 TC 20001 000 NISSAN Truck: 1
286 TC 24516 000 CUMMINS HD: 12	479 TS 20175 000 SAAB: 1, 2, 4, 5, 7	640 TC 20002 100 NISSAN: 1
286 TC 24555 000 CUMMINS HD: 11	479 TS 20176 000 SAAB: 4	640 TC 20003 100 NISSAN: 2
286 TC 24556 000 CUMMINS HD: 11	479 TS 20178 000 SAAB: 6	681 TC 20001 100 HYUNDAI: 5
286 TC 24557 000 CUMMINS HD: 11, 12	513 TC 20181 000 DODGE: 1; JEEP Truck: 1	681 TC 20002 100 HYUNDAI: 6; HYUNDAI Truck: 2; KIA: 4; KIA Truck: 1
286 TC 24929 000 CUMMINS HD: 6	513 TC 20182 000 CHRYSLER: 2, 5; DODGE: 4	681 TH 20001 000 HYUNDAI: 5
286 TC 25004 000 DODGE Truck: 3; CUMMINS HD: 2, 3	513 TC 20182 100 CHRYSLER: 2, 5; DODGE: 4	745 TC 20001 000 SUBARU: 6, 8
286 TC 25004 100 DODGE Truck: 3; CUMMINS HD: 3	513 TC 20183 100 CHRYSLER: 4	745 TC 20001 100 SUBARU: 6, 8
286 TC 25042 000 DODGE Truck: 3, 4; CUMMINS HD: 2, 3	513 TC 20184 100 CHRYSLER: 4; DODGE: 3	745 TC 20002 000 SUBARU: 8; SUBARU Truck: 1
286 TC 25042 100 DODGE Truck: 3, 4; CUMMINS HD: 3	513 TC 20185 100 CHRYSLER: 4	745 TC 20003 100 SAAB: 11; SUBARU: 4
286 TC 31102 000 CUMMINS HD: 2, 6	513 TC 20186 100 CHRYSLER: 1; MITSUBISHI: 2	745 TC 20004 000 SAAB: 12, 13; SUBARU: 6, 7, 8; SUBARU Truck: 1, 2
286 TC 31104 000 CUMMINS HD: 6	513 TC 20187 100 CHRYSLER: 4; DODGE: 3	745 TC 20005 000 SUBARU: 5
286 TH 21002 000 DODGE Truck: 3; CUMMINS HD: 3	513 TH 20182 000 CHRYSLER: 2; DODGE: 4	745 TC 20005 100 SUBARU: 5
286 TH 21003 000 DODGE Truck: 4	513 TS 20182 000 CHRYSLER: 2; DODGE: 4	745 TC 20006 000 SUBARU: 8
286 TH 21010 000 DODGE Truck: 3, 4; CUMMINS HD: 3	599 TC 20114 100 GMC Truck: 10	745 TC 20006 100 SUBARU: 8
286 TH 21025 000 DODGE Truck: 4	599 TC 20194 100 GMC Truck: 10	745 TC 20007 000 SUBARU: 5
286 TH 21026 000 DODGE Truck: 4	599 TC 21002 000 GMC Truck: 2	745 TC 20007 100 SUBARU: 5
286 TH 21029 000 DODGE Truck: 4	599 TC 21002 100 GMC Truck: 2	745 TC 20008 000 SUBARU: 8; SUBARU Truck: 1
286 TH 25004 000 DODGE Truck: 3; CUMMINS HD: 3	599 TC 21003 100 GMC Truck: 2	745 TC 20008 100 SUBARU: 8; SUBARU Truck: 1
286 TH 25042 000 DODGE Truck: 3, 4; CUMMINS HD: 3	599 TC 21004 100 GMC Truck: 5	745 TC 20009 100 SUBARU: 1, 2, 3
286 TS 20116 000 DODGE Truck: 3, 4; CUMMINS HD: 3	599 TC 21005 000 GMC Truck: 5	745 TH 20002 000 SAAB: 11, 13; SUBARU: 4, 8; SUBARU Truck: 1
286 TS 20117 000 DODGE Truck: 3, 4	599 TC 21005 100 GMC Truck: 5	745 TH 20005 000 SUBARU: 5
286 TS 20118 000 DODGE Truck: 3; CUMMINS HD: 3	599 TC 21006 000 GMC Truck: 3, 7	745 TH 20006 000 SUBARU: 8
286 TS 21029 000 DODGE Truck: 4	599 TC 21006 100 GMC Truck: 3, 7	745 TH 20180 000 SUBARU: 8
286 TS 21101 000 DODGE Truck: 5; CUMMINS HD: 4	599 TC 21007 000 GMC Truck: 9	745 TS 20001 000 SUBARU: 8; SUBARU Truck: 1
286 TS 21201 000 CUMMINS HD: 9	599 TC 21007 100 GMC Truck: 9	745 TS 20002 000 SAAB: 11, 13; SUBARU: 4, 8; SUBARU Truck: 1
	599 TC 21010 000 GMC Truck: 2	745 TS 20005 000 SUBARU: 5
	599 TC 21016 100 GMC Truck: 3, 7	745 TS 20180 000 SUBARU: 8
	599 TC 21017 100 GMC Truck: 9	781 TC 20001 000 JEEP Truck: 3
	599 TC 21101 000 GMC Truck: 2, 4	781 TC 20001 100 JEEP Truck: 3
	599 TC 21102 000 GMC Truck: 2	GS33070 CHRYSLER: 3, 4; DODGE: 2, 3
	599 TC 21102 100 GMC Truck: 2	GS33077 CHRYSLER: 6; DODGE: 5; MITSUBISHI: 3, 4, 5
	599 TC 21103 000 GMC Truck: 7	GS33145 SUBARU: 1, 2, 3
	599 TC 21103 100 GMC Truck: 7	GS33283 GMC: 5
	599 TC 21113 100 GMC Truck: 5, 7	GS33311 CHRYSLER: 1; MITSUBISHI: 1, 2
	599 TC 24521 000 GMC Truck: 2, 4	
	599 TC 24521 100 GMC Truck: 2, 4	
	599 TC 24522 000 GMC Truck: 2	
	599 TC 24522 100 GMC Truck: 2	
	599 TC 24523 100 GMC Truck: 2	
	599 TH 21002 000 GMC Truck: 2	



# NUMERICAL LISTING

<b>GS33522</b>	SAAB: 4, 5, 6, 7, 8, 9, 10	<b>GS33739</b>	FORD Truck: 6	<b>GS33908</b>	DODGE: 1; JEEP Truck: 1
<b>GS33526</b>	SAAB: 1, 2	<b>GS33740</b>	FORD Truck: 6	<b>GS33909</b>	GMC: 1; GMC Truck: 1
<b>GS33536</b>	SAAB: 11, 13; SUBARU: 4, 5, 8; SUBARU Truck: 1	<b>GS33741</b>	FORD Truck: 6	<b>GS33910</b>	GMC: 2
<b>GS33566</b>	FORD Truck: 9; NAVISTAR HD: 2	<b>GS33742</b>	FORD Truck: 6	<b>GS33911</b>	GMC Truck: 2
<b>GS33566A</b>	FORD Truck: 9; NAVISTAR HD: 2	<b>GS33743</b>	FORD: 8; FORD Truck: 6	<b>GS33915</b>	VOLVO: 2; VOLVO Truck: 1
<b>GS33576</b>	FORD Truck: 8; NAVISTAR HD: 1	<b>GS33744</b>	FORD: 8; FORD Truck: 6	<b>GS33916</b>	VOLVO: 3
<b>GS33582</b>	DODGE Truck: 4; CUMMINS HD: 2	<b>GS33756</b>	FORD: 7; FORD Truck: 5	<b>GS33917</b>	HYUNDAI: 5
<b>GS33583</b>	DODGE Truck: 3; CUMMINS HD: 2, 3	<b>GS33760</b>	HYUNDAI: 6; HYUNDAI Truck: 2; KIA: 4; KIA Truck: 1	<b>GS33918</b>	AUDI: 9, 10
<b>GS33584</b>	DODGE Truck: 3; CUMMINS HD: 2, 3	<b>GS33780</b>	FORD: 2, 4; FORD Truck: 1, 2	<b>GS33919</b>	ACURA Truck: 1
<b>GS33616</b>	DODGE Truck: 5, 6, 7; CUMMINS HD: 4, 5	<b>GS33789</b>	FORD Truck: 10	<b>GS33920</b>	JEEP Truck: 3
<b>GS33617</b>	CUMMINS HD: 9	<b>GS33834</b>	DODGE: 6; MITSUBISHI: 6, 7	<b>GS33921</b>	AUDI: 16; AUDI Truck: 1; VW: 18; VW Truck: 1
<b>GS33641</b>	NAVISTAR HD: 5, 8, 9, 10	<b>GS33835</b>	GMC: 5	<b>GS33922</b>	VOLVO: 1, 7
<b>GS33656</b>	FORD Truck: 12; NAVISTAR HD: 3	<b>GS33836</b>	FORD: 1; MAZDA: 1, 2	<b>GS33927</b>	MERCEDES-BENZ: 6
<b>GS33660</b>	CATERPILLAR HD: 5	<b>GS33847</b>	FORD: 10	<b>GS33929</b>	AUDI: 11, 17; AUDI Truck: 2, 3
<b>GS33666</b>	CATERPILLAR HD: 5	<b>GS33864</b>	FORD: 5; FORD Truck: 4	<b>GS33935</b>	MERCEDES-BENZ: 1; MERCEDES-BENZ Truck: 1
<b>GS33678</b>	GMC Truck: 3, 5, 6, 7, 9	<b>GS33865</b>	FORD Truck: 4	<b>GS33936</b>	MERCEDES-BENZ: 2; MERCEDES-BENZ Truck: 2
<b>GS33692</b>	FORD Truck: 10	<b>GS33878</b>	MAZDA: 3	<b>GS33937</b>	GMC Truck: 8, 10
<b>GS33734</b>	VOLVO HD: 1	<b>GS33880</b>	FORD: 7; FORD Truck: 5	<b>GS33943</b>	HYUNDAI: 2, 3, 4; HYUNDAI Truck: 1; KIA: 2, 3
		<b>GS33885</b>	FORD: 3; FORD Truck: 3	<b>GS33944</b>	HYUNDAI: 1; KIA: 1
		<b>GS33897</b>	MAZDA Truck: 1	<b>TURBODRAIN1</b>	MERCEDES-BENZ HD: 5, 6
		<b>GS33899</b>	NISSAN Truck: 1		
		<b>GS33900</b>	BMW: 1; BMW Truck: 1		
		<b>GS33905</b>	CHRYSLER: 2; DODGE: 4		
		<b>GS33906</b>	MINI: 1, 2, 3, 4, 5, 6		



MAHLE	COMPETITOR		MAHLE	COMPETITOR	
001 TA 15049 000	GARRETT	709838-0001	001 TC 14534 000	BORG WARNER	53279706502
001 TA 15049 000	GARRETT	709838-0003	001 TC 14534 000	BORG WARNER	53279706505
001 TA 15049 000	GARRETT	709838-0004	001 TC 14534 000	BORG WARNER	53279706506
001 TA 15049 000	GARRETT	709838-0005	001 TC 14534 000	BORG WARNER	53279706507
001 TA 15049 000	GARRETT	709838-0006	001 TC 14534 000	BORG WARNER	53279706508
001 TA 15049 000	GARRETT	709838-5001S	001 TC 14534 000	BORG WARNER	53279706511
001 TA 15049 000	GARRETT	709838-5002S	001 TC 14534 000	BORG WARNER	53279706512
001 TA 15049 000	GARRETT	709838-5003S	001 TC 14534 000	BORG WARNER	53279706606
001 TA 15049 000	GARRETT	709838-5004S	001 TC 14534 000	BORG WARNER	53279886502
001 TA 15049 000	GARRETT	709838-5005S	001 TC 14534 000	BORG WARNER	53279886505
001 TA 15049 000	GARRETT	709838-5006S	001 TC 14534 000	BORG WARNER	53279886506
001 TA 15049 010	GARRETT	709838-0001	001 TC 14534 000	BORG WARNER	53279886507
001 TA 15049 010	GARRETT	709838-0003	001 TC 14534 000	BORG WARNER	53279886508
001 TA 15049 010	GARRETT	709838-0004	001 TC 14534 000	BORG WARNER	53279886511
001 TA 15049 010	GARRETT	709838-0005	001 TC 14534 000	BORG WARNER	53279886512
001 TA 15049 010	GARRETT	709838-0006	001 TC 14534 000	BORG WARNER	53279886606
001 TA 15049 010	GARRETT	709838-5001S	001 TC 15049 000	BORG WARNER	28689
001 TA 15049 010	GARRETT	709838-5002S	001 TC 15049 000	GARRETT	709838-0001
001 TA 15049 010	GARRETT	709838-5003S	001 TC 15049 000	GARRETT	709838-0003
001 TA 15049 010	GARRETT	709838-5004S	001 TC 15049 000	GARRETT	709838-0004
001 TA 15049 010	GARRETT	709838-5005S	001 TC 15049 000	GARRETT	709838-0005
001 TA 15049 010	GARRETT	709838-5006S	001 TC 15049 000	GARRETT	709838-0006
001 TA 18126 000	GARRETT	777318-0001	001 TC 15049 000	GARRETT	709838-5001S
001 TC 14534 000	HOLSET	3580178	001 TC 15049 000	GARRETT	709838-5002S
001 TC 14534 000	GARRETT	466214-0014	001 TC 15049 000	GARRETT	709838-5003S
001 TC 14534 000	GARRETT	466214-0015	001 TC 15049 000	GARRETT	709838-5004S
001 TC 14534 000	GARRETT	466214-0016	001 TC 15049 000	GARRETT	709838-5005S
001 TC 14534 000	GARRETT	466214-0017	001 TC 15049 000	GARRETT	709838-5006S
001 TC 14534 000	GARRETT	466214-0018	001 TC 17005 000	BORG WARNER	5327 970 6503
001 TC 14534 000	GARRETT	466214-0019	001 TC 17005 000	BORG WARNER	5327 970 6504
001 TC 14534 000	GARRETT	466214-0022	001 TC 17005 000	BORG WARNER	5327 988 6515
001 TC 14534 000	GARRETT	466214-0023	001 TC 17005 000	BORG WARNER	5327 988 6533
001 TC 14534 000	GARRETT	466214-0028	001 TC 17005 000	BORG WARNER	53279706522
001 TC 14534 000	GARRETT	466214-0029	001 TC 17005 000	BORG WARNER	53279706523
001 TC 14534 000	GARRETT	466214-0030	001 TC 17005 000	BORG WARNER	53279706526
001 TC 14534 000	GARRETT	466214-0031	001 TC 17005 000	BORG WARNER	53279706527
001 TC 14534 000	GARRETT	466214-0035	001 TC 17005 000	BORG WARNER	53279706533
001 TC 14534 000	GARRETT	466214-0036	001 TC 17005 000	BORG WARNER	53279886522
001 TC 14534 000	GARRETT	466214-0037	001 TC 17005 000	BORG WARNER	53279886523
001 TC 14534 000	GARRETT	466214-0038	001 TC 17005 000	BORG WARNER	53279886526
001 TC 14534 000	GARRETT	466214-0039	001 TC 17005 000	BORG WARNER	53279886527
001 TC 14534 000	GARRETT	466214-5016S	001 TC 17005 000	BORG WARNER	53279886533
001 TC 14534 000	GARRETT	466214-5017S	001 TC 17815 000	GARRETT	757608-0001
001 TC 14534 000	GARRETT	466214-5022S	001 TC 17815 000	GARRETT	757608-1
001 TC 14534 000	GARRETT	466214-5023S	001 TC 17815 000	GARRETT	765155-0004
001 TC 14534 000	GARRETT	466214-5028S	001 TC 17815 000	GARRETT	765155-0007
001 TC 14534 000	GARRETT	466214-5029S	001 TC 17815 000	GARRETT	765155-0008
001 TC 14534 000	GARRETT	466214-5030S	001 TC 17815 000	GARRETT	765155-1
001 TC 14534 000	GARRETT	466214-5035S	001 TC 17815 000	GARRETT	765155-4
001 TC 14534 000	GARRETT	466214-5036S	001 TC 17815 000	GARRETT	765155-5004S
001 TC 14534 000	GARRETT	466214-5037S	001 TC 17815 000	GARRETT	765155-5007S
001 TC 14534 000	GARRETT	466214-5038S	001 TC 17815 000	GARRETT	765155-5008S
001 TC 14534 000	GARRETT	466214-5039S	001 TC 17815 000	GARRETT	765155-7

MAHLE	COMPETITOR	
001 TC 17815 000	GARRETT	765155-8
001 TC 17815 000	GARRETT	7676085001S
001 TC 18126 000	GARRETT	6420908580
001 TC 18126 000	GARRETT	764381-5002S
001 TC 18126 000	GARRETT	764381-5004S
001 TC 18126 000	GARRETT	764809-0001
001 TC 18126 000	GARRETT	764809-0002
001 TC 18126 000	GARRETT	764809-0004
001 TC 18126 000	GARRETT	764809-1
001 TC 18126 000	GARRETT	764809-2
001 TC 18126 000	GARRETT	764809-4
001 TC 18126 000	GARRETT	764809-5004S
001 TC 18126 000	GARRETT	777318-0001
001 TC 18126 000	GARRETT	777318-0002
001 TC 18126 000	GARRETT	777318-5001S
001 TC 18126 000	GARRETT	777318-5002S
001 TC 18126 000	GARRETT	7817435001S
001 TC 21101 000	BORG WARNER	5316 970 7021
001 TC 21101 000	BORG WARNER	5316 970 7025
001 TC 21101 000	BORG WARNER	5316 970 7107
001 TC 21101 000	BORG WARNER	5316 970 7119
001 TC 21101 000	BORG WARNER	5316 970 7138
001 TC 21101 000	BORG WARNER	5316 988 7021
001 TC 21101 000	BORG WARNER	5316 988 7025
001 TC 21101 000	BORG WARNER	5316 988 7107
001 TC 21101 000	BORG WARNER	5316 988 7119
001 TC 21101 000	BORG WARNER	5316 988 7138
001 TC 21101 000	BORG WARNER	5316 988 7198
001 TC 21101 000	BORG WARNER	53169707021
001 TC 21101 000	BORG WARNER	53169707025
001 TC 21101 000	BORG WARNER	53169707107
001 TC 21101 000	BORG WARNER	53169707119
001 TC 21101 000	BORG WARNER	53169707133
001 TC 21101 000	BORG WARNER	53169707133
001 TC 21101 000	BORG WARNER	53169707138
001 TC 21101 000	BORG WARNER	53169887021
001 TC 21101 000	BORG WARNER	53169887025
001 TC 21101 000	BORG WARNER	53169887107
001 TC 21101 000	BORG WARNER	53169887119
001 TC 21101 000	BORG WARNER	53169887133
001 TC 21101 000	BORG WARNER	53169887138
001 TC 21101 000	BORG WARNER	53169887198
001 TC 21102 000	GARRETT	736088-0003
001 TC 21102 000	GARRETT	736088-0003
001 TC 21102 000	GARRETT	736088-5003S
001 TC 21102 000	GARRETT	736088-5006S
001 TC 31102 000	HOLSET	4040429
001 TC 31102 000	BORG WARNER	5327 970 7100
001 TC 31102 000	BORG WARNER	5327 988 7100
001 TC 31102 000	BORG WARNER	5327 988 7127
001 TC 31102 000	BORG WARNER	53279707120
001 TC 31102 000	BORG WARNER	53279887120
001 TC 31103 000	BORG WARNER	5324 970 7114

MAHLE	COMPETITOR	
001 TC 31103 000	BORG WARNER	5324 988 7114
001 TC 31103 000	BORG WARNER	53249707114
001 TC 31103 000	BORG WARNER	53249887114
014 TC 21101 000	BORG WARNER	177100
014 TC 21101 000	BORG WARNER	479514
014 TC 21101 000	BORG WARNER	479523
014 TC 21101 100	BORG WARNER	177100
014 TC 21101 100	BORG WARNER	28694
014 TC 21101 100	BORG WARNER	479514
014 TC 21101 100	BORG WARNER	479523
014 TC 21102 000	BORG WARNER	1270 990 1038
014 TC 21102 000	BORG WARNER	176013
014 TC 21102 000	BORG WARNER	176466
014 TC 21102 000	BORG WARNER	479514
014 TC 21102 000	BORG WARNER	479515
014 TC 21102 100	BORG WARNER	176013
014 TC 21102 100	BORG WARNER	176466
014 TC 21102 100	BORG WARNER	287111
014 TC 21102 100	BORG WARNER	479514
014 TC 21102 100	BORG WARNER	479515
014 TC 24020 000	BORG WARNER	179204
014 TC 24021 000	BORG WARNER	179205
014 TC 26158 000	BORG WARNER	170308
014 TC 31103 000	GARRETT	465715-0001
014 TC 31104 000	GARRETT	465153-0003
015 TC 21003 000	GARRETT	7020120006
015 TC 21003 000	GARRETT	7020120010
015 TC 21003 000	GARRETT	7020120012
015 TC 21003 000	GARRETT	7020125010S
015 TC 21003 000	GARRETT	7020125012S
015 TC 21006 100	GARRETT	7253905003S
015 TC 21006 100	GARRETT	7724410001
015 TC 21006 100	GARRETT	7774690001
015 TC 21006 100	GARRETT	7774695001S
030 TA 14156 000	GARRETT	454083-0001
030 TA 14156 000	GARRETT	454083-0002
030 TA 14156 000	GARRETT	454083-5001S
030 TA 14156 000	GARRETT	454083-5002S
030 TA 14156 000	GARRETT	454172-0001
030 TA 14156 000	GARRETT	454172-0002
030 TA 14156 000	GARRETT	454172-5001S
030 TA 14156 000	GARRETT	454172-5002S
030 TA 14156 000	BORG WARNER	53039700006
030 TA 14156 000	BORG WARNER	53039900006
030 TA 14233 000	GARRETT	454232-1
030 TA 14233 000	GARRETT	454232-3
030 TA 14233 000	GARRETT	454232-4
030 TA 14233 000	GARRETT	454232-5
030 TA 14233 000	GARRETT	454232-5001S
030 TA 14233 000	GARRETT	454232-5003S
030 TA 14233 000	GARRETT	454232-5004S
030 TA 14233 000	GARRETT	454232-5005S
030 TA 14233 000	GARRETT	768329-5001S

MAHLE	COMPETITOR	
030 TA 14233 000	GARRETT	768329-5003S
030 TA 14306 000	BORG WARNER	53039700005
030 TA 14306 000	BORG WARNER	53039700013
030 TA 14306 000	BORG WARNER	53039880005
030 TA 14306 000	BORG WARNER	53039880013
030 TA 14306 000	BORG WARNER	53039900013
030 TA 14665 000	BORG WARNER	05EK5046887
030 TA 14665 000	BORG WARNER	53049700015
030 TA 14665 000	BORG WARNER	53049880015
030 TA 15091 000	BORG WARNER	53049700023
030 TA 15091 000	BORG WARNER	53049880023
030 TA 15116 000	GARRETT	713672-0002
030 TA 15116 000	GARRETT	713672-0004
030 TA 15116 000	GARRETT	713672-0005
030 TA 15116 000	GARRETT	713672-0005
030 TA 15116 000	GARRETT	713672-0006
030 TA 15116 000	GARRETT	713672-0007
030 TA 15116 000	GARRETT	713672-1
030 TA 15116 000	GARRETT	713672-2
030 TA 15116 000	GARRETT	713672-3
030 TA 15116 000	GARRETT	713672-4
030 TA 15116 000	GARRETT	713672-5
030 TA 15116 000	GARRETT	713672-5005S
030 TA 15116 000	GARRETT	713672-5006S
030 TA 15116 000	GARRETT	713672-5007S
030 TA 15116 000	GARRETT	713672-6
030 TC 14050 000	GARRETT	454065-0002
030 TC 14050 000	GARRETT	454065-2
030 TC 14050 000	GARRETT	454065-5002S
030 TC 14050 000	BORG WARNER	53039700003
030 TC 14050 000	BORG WARNER	53039880003
030 TC 14082 000	BORG WARNER	53039700025
030 TC 14082 000	3K	53039700029
030 TC 14082 000	BORG WARNER	53039700029
030 TC 14082 000	BORG WARNER	53039880025
030 TC 14082 000	3K	53039880029
030 TC 14082 000	BORG WARNER	53039880029
030 TC 14082 000	BORG WARNER	53039900029
030 TC 14156 000	GARRETT	454083-0001
030 TC 14156 000	GARRETT	454083-0002
030 TC 14156 000	GARRETT	454083-5001S
030 TC 14156 000	GARRETT	454083-5002S
030 TC 14156 000	GARRETT	454172-0001
030 TC 14156 000	GARRETT	454172-0002
030 TC 14156 000	GARRETT	454172-5001S
030 TC 14156 000	GARRETT	454172-5002S
030 TC 14156 000	BORG WARNER	53039700006
030 TC 14156 000	BORG WARNER	53039880006
030 TC 14156 000	BORG WARNER	53039900006
030 TC 14233 000	GARRETT	454232-1
030 TC 14233 000	GARRETT	454232-3
030 TC 14233 000	GARRETT	454232-4
030 TC 14233 000	GARRETT	454232-5

MAHLE	COMPETITOR	
030 TC 14233 000	GARRETT	454232-5001S
030 TC 14233 000	GARRETT	454232-5003S
030 TC 14233 000	GARRETT	454232-5004S
030 TC 14233 000	GARRETT	454232-5005S
030 TC 14233 000	GARRETT	768329-5001S
030 TC 14233 000	GARRETT	768329-5003S
030 TC 14306 000	BORG WARNER	53039700005
030 TC 14306 000	BORG WARNER	53039700013
030 TC 14306 000	BORG WARNER	53039880005
030 TC 14306 000	BORG WARNER	53039880013
030 TC 14306 000	BORG WARNER	53039900013
030 TC 14364 000	BORG WARNER	53039880195
030 TC 14364 000	GARRETT	712077-0001
030 TC 14364 000	GARRETT	712077-1
030 TC 14364 000	GARRETT	712615-1
030 TC 14364 000	GARRETT	716215-0001
030 TC 14364 000	GARRETT	717858-0001
030 TC 14364 000	GARRETT	717858-0002
030 TC 14364 000	GARRETT	717858-0003
030 TC 14364 000	GARRETT	717858-0004
030 TC 14364 000	GARRETT	717858-0005
030 TC 14364 000	GARRETT	717858-0006
030 TC 14364 000	GARRETT	717858-0007
030 TC 14364 000	GARRETT	717858-0008
030 TC 14364 000	GARRETT	717858-0009
030 TC 14364 000	GARRETT	717858-0010
030 TC 14364 000	GARRETT	717858-1
030 TC 14364 000	GARRETT	717858-2
030 TC 14364 000	GARRETT	717858-3
030 TC 14364 000	GARRETT	717858-4
030 TC 14364 000	GARRETT	717858-5
030 TC 14364 000	GARRETT	717858-5001S
030 TC 14364 000	GARRETT	717858-5002S
030 TC 14364 000	GARRETT	717858-5003S
030 TC 14364 000	GARRETT	717858-5004S
030 TC 14364 000	GARRETT	717858-5005S
030 TC 14364 000	GARRETT	717858-5006S
030 TC 14364 000	GARRETT	717858-5007S
030 TC 14364 000	GARRETT	717858-5008S
030 TC 14364 000	GARRETT	717858-5009S
030 TC 14364 000	GARRETT	717858-5009S
030 TC 14364 000	GARRETT	717858-5010S
030 TC 14364 000	GARRETT	717858-6
030 TC 14364 000	GARRETT	717858-7
030 TC 14364 000	GARRETT	717858-9
030 TC 14413 000	GARRETT	701854-0001
030 TC 14413 000	GARRETT	701854-0002
030 TC 14413 000	GARRETT	701854-0003
030 TC 14413 000	GARRETT	701854-0004
030 TC 14413 000	GARRETT	701854-0005
030 TC 14413 000	GARRETT	701854-1
030 TC 14413 000	GARRETT	701854-2
030 TC 14413 000	GARRETT	701854-3



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030 TC 14413 000	GARRETT	701854-4
030 TC 14413 000	GARRETT	701854-5001S
030 TC 14413 000	GARRETT	701854-5002S
030 TC 14413 000	GARRETT	701854-5003S
030 TC 14413 000	GARRETT	701854-5004S
030 TC 14413 000	GARRETT	701854-5005S
030 TC 14638 000	BORG WARNER	53049700064
030 TC 14638 000	BORG WARNER	53049880064
030 TC 14638 000	BORG WARNER	53049900064
030 TC 14665 000	BORG WARNER	05EK5046887
030 TC 14665 000	BORG WARNER	53049700015
030 TC 14665 000	BORG WARNER	53049880015
030 TC 15091 000	BORG WARNER	53049500011
030 TC 15091 000	BORG WARNER	53049700023
030 TC 15091 000	BORG WARNER	53049880023
030 TC 15116 000	BORG WARNER	54399700017
030 TC 15116 000	GARRETT	713672-0002
030 TC 15116 000	GARRETT	713672-0004
030 TC 15116 000	GARRETT	713672-0005
030 TC 15116 000	GARRETT	713672-0005
030 TC 15116 000	GARRETT	713672-0006
030 TC 15116 000	GARRETT	713672-0007
030 TC 15116 000	GARRETT	713672-1
030 TC 15116 000	GARRETT	713672-2
030 TC 15116 000	GARRETT	713672-3
030 TC 15116 000	GARRETT	713672-4
030 TC 15116 000	GARRETT	713672-5
030 TC 15116 000	GARRETT	713672-5002S
030 TC 15116 000	GARRETT	713672-5003S
030 TC 15116 000	GARRETT	713672-5004S
030 TC 15116 000	GARRETT	713672-5005S
030 TC 15116 000	GARRETT	713672-5006S
030 TC 15116 000	GARRETT	713672-5007S
030 TC 15116 000	GARRETT	713672-6
030 TC 15310 000	GARRETT	038253019NV50 0
030 TC 15310 000	BORG WARNER	5439 970 0081
030 TC 15310 000	BORG WARNER	5439 988 0081
030 TC 15310 000	GARRETT	713673-0002
030 TC 15310 000	GARRETT	713673-0003
030 TC 15310 000	GARRETT	713673-0004
030 TC 15310 000	GARRETT	713673-0005
030 TC 15310 000	GARRETT	713673-0006
030 TC 15310 000	GARRETT	713673-0007
030 TC 15310 000	GARRETT	713673-2
030 TC 15310 000	GARRETT	713673-3
030 TC 15310 000	GARRETT	713673-4
030 TC 15310 000	GARRETT	713673-5
030 TC 15310 000	GARRETT	713673-5005S
030 TC 15310 000	GARRETT	713673-5006S
030 TC 15310 000	GARRETT	713673-5007S
030 TC 15310 000	GARRETT	713673-6
030 TC 15310 000	GARRETT	7136735002S
030 TC 17814 000	BORG WARNER	54399700011

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030 TC 17814 000	BORG WARNER	54399700022
030 TC 17814 000	BORG WARNER	54399880011
030 TC 17814 000	BORG WARNER	54399880022
030 TC 17814 000	BORG WARNER	54399900011
030 TC 17814 000	BORG WARNER	54399900022
030 TC 17814 000	GARRETT	751851-0002
030 TC 17814 000	GARRETT	751851-0003
030 TC 17814 000	GARRETT	751851-0004
030 TC 17814 000	GARRETT	751851-4
030 TC 17814 000	GARRETT	751851-5001S
030 TC 17814 000	GARRETT	751851-5002S
030 TC 17814 000	GARRETT	751851-5003S
030 TC 17814 000	GARRETT	751851-5004S
030 TC 20168 000	BORG WARNER	53039880087
030 TC 20168 000	BORG WARNER	53039880106
030 TC 21201 000	BORG WARNER	53039700052
030 TC 21201 000	BORG WARNER	53039880052
030 TC 21201 000	BORG WARNER	53039880053
030 TC 21201 000	BORG WARNER	53039880058
030 TC 22001 100	BORG WARNER	53039880069
043 TC 10737 000	GARRETT	466674-0004
043 TC 10996 000	GARRETT	452191-0001
043 TC 10996 000	GARRETT	727264-0001
043 TC 17973 000	BORG WARNER	127973
043 TC 17973 000	GARRETT	727264-0005
061 TC 31101 000	HOLSET	3531733
061 TC 31101 000	HOLSET	3597659
082 TC 20181 000	BORG WARNER	287124
082 TC 20181 000	BORG WARNER	287125
082 TC 20181 000	BORG WARNER	53039880118
082 TC 20181 000	BORG WARNER	53039880163
082 TC 20181 000	BORG WARNER	53039880181
098 TC 20173 000	GARRETT	7523895007S
098 TC 21101 000	BORG WARNER	172743
098 TC 24130 000	BORG WARNER	167735
098 TC 24130 000	GARRETT	465695-0001
098 TC 24130 000	GARRETT	465695-0002
098 TC 24130 000	GARRETT	466838-0002
098 TC 24130 000	GARRETT	466838-0006
098 TC 24131 000	BORG WARNER	167736
098 TC 24131 000	GARRETT	466838-0001
098 TC 24131 000	GARRETT	466838-0005
098 TC 24131 000	GARRETT	466838-0007
098 TC 24132 000	BORG WARNER	169011
098 TC 24132 000	GARRETT	466999-0002
098 TC 24133 000	BORG WARNER	169012
098 TC 24133 000	GARRETT	466998-0002
098 TC 24133 000	GARRETT	466998-0009
098 TC 24133 000	GARRETT	471087-0001
098 TC 24133 000	3K	5331 970 7113
098 TC 24133 000	GARRETT	714785-0001
098 TC 24136 000	BORG WARNER	171701
098 TC 24136 000	GARRETT	466713-0003

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098 TC 24137 000	BORG WARNER	171702
098 TC 24137 000	GARRETT	466713-0005
098 TC 24137 000	GARRETT	466713-0006
098 TC 24137 000	GARRETT	466713-0007
098 TC 25592 000	BORG WARNER	172743
098 TC 25592 000	GARRETT	700228-0003
098 TC 25592 000	GARRETT	700228-0020
098 TC 25592 000	GARRETT	702015-0001
098 TC 25592 000	GARRETT	702015-0003
098 TC 25592 000	GARRETT	702015-0005
098 TC 25592 000	GARRETT	702015-0006
098 TC 25592 000	GARRETT	702284-0001
098 TC 25592 000	GARRETT	702284-0003
098 TC 25592 000	GARRETT	702284-0006
098 TC 25592 000	GARRETT	702284-0007
098 TC 25592 000	GARRETT	702284-0008
098 TC 25592 000	GARRETT	702284-0009
098 TC 25592 000	GARRETT	702303-0002
098 TC 25592 000	GARRETT	702468-0002
098 TC 25592 000	GARRETT	702468-0003
098 TC 25592 000	GARRETT	702885-0002
098 TC 25592 000	GARRETT	703767-0005
098 TC 25592 000	GARRETT	703767-0006
098 TC 25592 000	GARRETT	703768-0001
098 TC 25592 000	GARRETT	703768-0002
098 TC 25592 000	GARRETT	714788-0007
098 TC 25592 000	GARRETT	714789-0008
098 TC 25592 000	GARRETT	714792-0004
098 TC 25606 000	BORG WARNER	172743
127 TC 15120 000	GARRETT	409410-0004
127 TC 15120 000	GARRETT	409410-0006
127 TC 15120 000	GARRETT	409410-0007
127 TC 15121 000	GARRETT	465088-0001
127 TC 15121 000	GARRETT	465088-5001S
127 TC 15122 000	BORG WARNER	184119
127 TC 15122 000	BORG WARNER	310135
127 TC 17332 000	BORG WARNER	159623
127 TC 17332 000	BORG WARNER	310130
127 TC 20186 000	BORG WARNER	167380
127 TC 20186 000	BORG WARNER	173305
127 TC 20186 000	BORG WARNER	178480
127 TC 20187 000	GARRETT	465778-5017
127 TC 21003 000	BORG WARNER	178063
127 TC 21003 000	BORG WARNER	199119
127 TC 21005 000	BORG WARNER	169980
127 TC 21005 000	BORG WARNER	171744
127 TC 21005 000	BORG WARNER	171745
127 TC 21005 000	BORG WARNER	178089
127 TC 21101 000	BORG WARNER	167865
127 TC 21101 000	BORG WARNER	170167
127 TC 21101 000	BORG WARNER	171173
127 TC 21101 000	BORG WARNER	171963
127 TC 21101 000	BORG WARNER	171964

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127 TC 21101 000	BORG WARNER	173106
127 TC 21101 000	BORG WARNER	178478
127 TC 21102 000	BORG WARNER	178048
127 TC 21102 000	BORG WARNER	5232 970 5001
127 TC 21103 000	BORG WARNER	180299
127 TC 21103 000	BORG WARNER	315797
127 TC 21103 000	BORG WARNER	315797
127 TC 21104 000	BORG WARNER	196801
127 TC 21205 000	GARRETT	7432790003
127 TC 21205 000	GARRETT	7432790004
127 TC 21206 000	BORG WARNER	173701
127 TC 21206 000	BORG WARNER	175480
127 TC 21206 000	BORG WARNER	178046
127 TC 21208 000	BORG WARNER	170227
127 TC 21208 000	BORG WARNER	171574
127 TC 21208 000	BORG WARNER	171595
127 TC 21208 000	BORG WARNER	171636
127 TC 21208 000	BORG WARNER	171998
127 TC 21208 000	BORG WARNER	171999
127 TC 21208 000	BORG WARNER	172000
127 TC 21208 000	BORG WARNER	172001
127 TC 21208 000	BORG WARNER	172002
127 TC 21208 000	BORG WARNER	172003
127 TC 21208 000	BORG WARNER	172004
127 TC 21208 000	BORG WARNER	172005
127 TC 21208 000	BORG WARNER	172006
127 TC 21208 000	BORG WARNER	172007
127 TC 21208 000	BORG WARNER	178468
127 TC 21211 000	BORG WARNER	174200
127 TC 21211 000	BORG WARNER	178482
127 TC 24088 000	BORG WARNER	1491 990 0009
127 TC 24088 000	BORG WARNER	167361
127 TC 24100 000	BORG WARNER	199114
127 TC 24111 000	BORG WARNER	174259
127 TC 24111 000	GARRETT	466445-0017
127 TC 24111 000	GARRETT	466445-0022
127 TC 24111 000	GARRETT	471066-0001
127 TC 24111 000	GARRETT	471119-0001
127 TC 24112 000	BORG WARNER	174260
127 TC 24112 000	GARRETT	471036-0001
127 TC 24112 000	GARRETT	471120-0001
127 TC 24113 000	BORG WARNER	175963
127 TC 24113 000	GARRETT	471147-0007
127 TC 24113 000	BORG WARNER	475963
127 TC 24113 000	GARRETT	705152-0003
127 TC 24113 000	GARRETT	705152-0007
127 TC 24114 000	BORG WARNER	177148
127 TC 24114 000	GARRETT	466445-0015
127 TC 24114 000	GARRETT	466445-0018
127 TC 24114 000	GARRETT	466445-0021
127 TC 24114 000	GARRETT	466445-0023
127 TC 24114 000	GARRETT	471142-0005
127 TC 24114 000	GARRETT	704604-0007

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127 TC 24114 000	GARRETT	704604-0011
127 TC 24116 000	BORG WARNER	174269
127 TC 24116 000	GARRETT	466423-0001
127 TC 24116 000	GARRETT	466423-0003
127 TC 24116 000	GARRETT	466423-0004
127 TC 24116 000	GARRETT	466423-0005
127 TC 24162 000	BORG WARNER	199079
127 TC 24163 000	BORG WARNER	178062
127 TC 24163 000	BORG WARNER	199086
127 TC 24163 000	BORG WARNER	478062
127 TC 24164 000	BORG WARNER	169490
127 TC 24169 000	BORG WARNER	167167
127 TC 24169 000	BORG WARNER	167168
127 TC 24169 000	BORG WARNER	178009
127 TC 24174 000	BORG WARNER	169966
127 TC 24174 000	BORG WARNER	199661
127 TC 27057 000	BORG WARNER	312749
127 TH 20004 000	BORG WARNER	167687
127 TH 20004 000	BORG WARNER	318458
127 TS 21206 100	BORG WARNER	318394
128 TC 20167 000	BORG WARNER	173052
128 TC 20167 000	BORG WARNER	173053
128 TC 20167 000	BORG WARNER	173054
128 TC 20167 000	BORG WARNER	177263
128 TC 20167 000	GARRETT	4710505001S
128 TC 21101 000	GARRETT	4660070005
128 TC 24045 000	BORG WARNER	313096
128 TC 24046 000	BORG WARNER	178099
128 TC 24046 000	BORG WARNER	193728
128 TC 24046 000	BORG WARNER	196064
128 TC 24046 000	BORG WARNER	313097
128 TC 24046 000	GARRETT	409710-0002
128 TC 24778 000	BORG WARNER	168482
128 TC 24778 000	BORG WARNER	177276
144 TC 21002 000	GARRETT	7151340005
144 TC 21003 000	BORG WARNER	179079
144 TC 21003 000	GARRETT	751363-0001
144 TC 21005 000	BORG WARNER	184171
144 TC 21005 000	GARRETT	409770-0013
144 TC 21005 000	GARRETT	409770-0016
144 TC 21006 000	BORG WARNER	313102
144 TC 21006 000	GARRETT	409770-0021
144 TC 21006 000	GARRETT	409770-0022
144 TC 21008 000	BORG WARNER	173900
144 TC 21008 000	BORG WARNER	179030
144 TC 21008 000	BORG WARNER	479030
144 TC 21101 000	BORG WARNER	175733
144 TC 21101 000	BORG WARNER	178733
144 TC 21101 000	BORG WARNER	179035
144 TC 24007 100	BORG WARNER	170308
144 TC 24007 100	GARRETT	466163-0001
144 TC 24007 100	GARRETT	466163-0006
144 TC 24007 100	GARRETT	466163-0011

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144 TC 24007 100	GARRETT	468485-0001
144 TC 24007 100	BORG WARNER	470308
144 TC 24008 000	BORG WARNER	170310
144 TC 24008 000	GARRETT	466163-0002
144 TC 24008 000	GARRETT	466163-0003
144 TC 24008 000	GARRETT	4661635002S
144 TC 24010 000	BORG WARNER	170290
144 TC 24010 000	GARRETT	466163-0004
144 TC 24010 000	GARRETT	466163-0005
144 TC 24010 100	GARRETT	466163-0004
144 TC 24010 100	GARRETT	466163-0005
144 TC 24010 100	BORG WARNER	470290
144 TC 24267 000	BORG WARNER	167338
144 TC 24294 000	BORG WARNER	167336
144 TC 24294 000	GARRETT	466772-0005
144 TC 24682 000	BORG WARNER	193876
183 TC 23538 000	HOLSET	3538221
183 TC 23538 000	HOLSET	4036151
183 TC 23538 000	HOLSET	4045003
183 TC 23538 000	HOLSET	4955657
183 TC 23538 100	HOLSET	3538221
183 TC 23538 100	HOLSET	4036151
183 TC 24276 000	BORG WARNER	168825
183 TC 24276 000	BORG WARNER	178017
183 TC 24276 000	HOLSET	3528124
183 TC 24276 000	HOLSET	3528551
183 TC 24276 000	HOLSET	3528602
183 TC 24276 000	HOLSET	3529434
183 TC 24276 000	HOLSET	3530767
183 TC 24276 000	HOLSET	3532054
183 TC 24517 000	BORG WARNER	196441
183 TC 24517 000	HOLSET	3522865
183 TC 24517 000	HOLSET	3522866
183 TC 24517 000	HOLSET	3523272
183 TC 24517 000	HOLSET	3523273
183 TC 24517 000	HOLSET	3524206
183 TC 24518 000	BORG WARNER	196463
183 TC 24518 000	HOLSET	3522872
183 TC 24518 000	HOLSET	3524202
183 TC 24518 000	HOLSET	354202
183 TC 24519 000	GARRETT	150574-0000
183 TC 24519 000	BORG WARNER	196464
183 TC 24519 000	HOLSET	3522867
183 TC 24562 000	GARRETT	144700-5000S
183 TC 24562 000	BORG WARNER	167050
183 TC 24562 000	HOLSET	3032060
183 TC 24562 000	HOLSET	3032060
183 TC 24562 000	HOLSET	3527693
183 TC 24562 000	HOLSET	3529040
183 TC 24562 000	HOLSET	3801992
183 TC 24563 000	BORG WARNER	167713
183 TC 24563 000	HOLSET	3527046
183 TC 24563 000	HOLSET	3529032



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183 TC 24563 000	HOLSET	3530048
183 TC 24564 000	BORG WARNER	167715
183 TC 24564 000	HOLSET	3524991
183 TC 24564 000	HOLSET	3525998
183 TC 24564 000	HOLSET	3527547
183 TC 24564 000	HOLSET	3529035
183 TC 24564 000	HOLSET	3529547
183 TC 24564 000	HOLSET	3801918
183 TC 25331 000	BORG WARNER	178022
183 TC 25331 000	HOLSET	3531772
183 TC 25331 000	HOLSET	3531773
193 TC 24277 000	BORG WARNER	173526
193 TC 24277 000	BORG WARNER	173527
193 TC 24277 000	BORG WARNER	174825
193 TC 24651 000	BORG WARNER	185308
193 TC 24651 000	BORG WARNER	185605
193 TC 24652 000	BORG WARNER	149752
193 TC 24652 000	BORG WARNER	158151
193 TC 24652 000	BORG WARNER	183632
193 TC 24652 000	BORG WARNER	185309
193 TC 24652 000	BORG WARNER	185309
193 TC 24652 000	BORG WARNER	185310
193 TC 24652 000	BORG WARNER	185312
193 TC 24652 000	BORG WARNER	185313
193 TC 24652 000	BORG WARNER	185604
193 TC 24652 000	BORG WARNER	185878
193 TC 24652 000	GARRETT	406090-0005
193 TC 24652 000	GARRETT	406090-0010
193 TC 24652 000	GARRETT	406090-0013
193 TC 24652 000	GARRETT	406090-0020
193 TC 24652 000	GARRETT	406090-0021
193 TC 24652 000	GARRETT	406090-0022
193 TC 24652 000	GARRETT	406090-0023
193 TC 24652 000	GARRETT	409020-0004
193 TC 24652 000	GARRETT	465380-0004
193 TC 24652 000	GARRETT	465380-0006
193 TC 24652 000	GARRETT	465380-0008
193 TC 24652 000	GARRETT	465380-0011
193 TC 24652 000	GARRETT	465380-0014
193 TC 24652 000	GARRETT	465380-0015
193 TC 24652 000	GARRETT	465380-0017
193 TC 24652 000	GARRETT	465380-0020
193 TC 24652 000	GARRETT	465380-0022
193 TC 24652 000	GARRETT	465380-0023
193 TC 24652 000	GARRETT	465380-0024
193 TC 24652 000	GARRETT	465380-0027
193 TC 24652 000	GARRETT	465380-0030
193 TC 24652 000	GARRETT	465498-0007
193 TC 24652 000	GARRETT	465786-0002
193 TC 24656 000	BORG WARNER	183386
193 TC 24656 000	BORG WARNER	186301
193 TC 24656 000	GARRETT	465498-0003
193 TC 24656 000	GARRETT	465498-0006

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193 TC 24656 000	GARRETT	465498-0009
193 TC 24656 000	GARRETT	465498-0010
193 TC 24656 000	GARRETT	465498-0014
193 TC 24656 000	GARRETT	465498-0015
193 TC 24656 000	GARRETT	465786-0001
193 TC 24657 000	BORG WARNER	186104
193 TC 24657 000	BORG WARNER	186105
193 TC 24657 000	BORG WARNER	186261
193 TC 24657 000	BORG WARNER	188036
193 TC 24657 000	GARRETT	465380-0031
286 TC 14015 000	BORG WARNER	166592
286 TC 14015 000	HOLSET	3522777
286 TC 14015 000	HOLSET	3522778
286 TC 14015 000	HOLSET	3528741
286 TC 14015 000	HOLSET	3528742
286 TC 14015 000	HOLSET	3530714
286 TC 14015 000	HOLSET	3530772
286 TC 14015 000	HOLSET	3535414
286 TC 14015 000	HOLSET	3535415
286 TC 14015 000	HOLSET	3535416
286 TC 14015 000	HOLSET	3535418
286 TC 14015 000	HOLSET	3535419
286 TC 14015 000	HOLSET	3535420
286 TC 14015 000	HOLSET	3535421
286 TC 14015 000	HOLSET	3535454
286 TC 14015 000	HOLSET	3538188
286 TC 14015 000	HOLSET	3802289
286 TC 14015 000	GARRETT	466563-0001
286 TC 14015 000	GARRETT	466563-0003
286 TC 14015 000	GARRETT	466563-5003S
286 TC 14234 000	BORG WARNER	171270
286 TC 14234 000	HOLSET	3520030
286 TC 14234 000	HOLSET	3522900
286 TC 14234 000	HOLSET	3528743
286 TC 14234 000	HOLSET	3528744
286 TC 14234 000	HOLSET	3530721
286 TC 14234 000	HOLSET	3535381
286 TC 14234 000	HOLSET	3535422
286 TC 14234 000	HOLSET	3535423
286 TC 14234 000	HOLSET	3535424
286 TC 14234 000	HOLSET	3535425
286 TC 14234 000	HOLSET	3535426
286 TC 14234 000	HOLSET	3535427
286 TC 14234 000	HOLSET	3536677
286 TC 14234 000	HOLSET	3539310
286 TC 14234 000	HOLSET	3802290
286 TC 15235 000	BORG WARNER	168824
286 TC 15235 000	HOLSET	3525237
286 TC 15235 000	HOLSET	3525238
286 TC 15267 000	BORG WARNER	316468
286 TC 15267 000	HOLSET	3524034
286 TC 15267 000	HOLSET	3524035
286 TC 15267 000	HOLSET	3528777

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286 TC 15267 000	HOLSET	3528778
286 TC 15267 000	HOLSET	3530716
286 TC 15267 000	HOLSET	3535456
286 TC 15267 000	HOLSET	3535457
286 TC 15267 000	HOLSET	3802126
286 TC 15267 000	HOLSET	3802303
286 TC 15267 000	HOLSET	3919201
286 TC 15267 000	GARRETT	466589-0001
286 TC 15267 000	HOLSET	J919199
286 TC 15390 000	HOLSET	3537033
286 TC 15390 000	HOLSET	3537562
286 TC 15390 000	HOLSET	3538288
286 TC 15390 000	HOLSET	3539710
286 TC 15390 000	HOLSET	3590127
286 TC 15390 000	HOLSET	3592016
286 TC 15390 000	HOLSET	3593089
286 TC 15390 000	HOLSET	3593090
286 TC 15390 000	HOLSET	3802798
286 TC 15390 000	HOLSET	3839710
286 TC 16102 000	BORG WARNER	169417
286 TC 16102 000	HOLSET	3034332
286 TC 16102 000	HOLSET	3519095
286 TC 16102 000	HOLSET	3521803
286 TC 17385 000	HOLSET	3537752
286 TC 17385 000	HOLSET	3537753
286 TC 17385 000	HOLSET	3590128
286 TC 17385 000	HOLSET	3590135
286 TC 17385 000	HOLSET	3590136
286 TC 17385 000	HOLSET	3592122
286 TC 17385 000	HOLSET	3592123
286 TC 17385 000	HOLSET	3592124
286 TC 17385 000	HOLSET	3592313
286 TC 17385 000	HOLSET	3592314
286 TC 21002 000	HOLSET	3592766
286 TC 21002 000	HOLSET	3592767
286 TC 21003 000	HOLSET	3533351
286 TC 21003 000	HOLSET	3539912
286 TC 21006 000	BORG WARNER	178923
286 TC 21006 000	HOLSET	3590044
286 TC 21006 000	HOLSET	3590045
286 TC 21006 000	HOLSET	4039173
286 TC 21007 000	HOLSET	3534919
286 TC 21007 000	HOLSET	3534920
286 TC 21007 000	HOLSET	3539370
286 TC 21007 000	HOLSET	3802992
286 TC 21007 100	HOLSET	3534919
286 TC 21007 100	HOLSET	3534920
286 TC 21007 100	HOLSET	3539369
286 TC 21008 000	HOLSET	3539344
286 TC 21010 000	HOLSET	3599811
286 TC 21102 000	HOLSET	3538351
286 TC 21103 000	BORG WARNER	166592
286 TC 21103 000	HOLSET	3596949

MAHLE	COMPETITOR	
286 TC 24275 000	BORG WARNER	168823
286 TC 24275 000	HOLSET	3034326
286 TC 24275 000	HOLSET	3504696
286 TC 24275 000	HOLSET	3519092
286 TC 24275 000	HOLSET	3521802
286 TC 24516 000	BORG WARNER	167049
286 TC 24516 000	HOLSET	3523418
286 TC 24555 000	BORG WARNER	172033
286 TC 24555 000	HOLSET	3531725
286 TC 24556 000	BORG WARNER	172034
286 TC 24556 000	HOLSET	3531728
286 TC 24556 000	HOLSET	3538396
286 TC 24557 000	BORG WARNER	172035
286 TC 24557 000	HOLSET	3531733
286 TC 24557 000	HOLSET	3536095
286 TC 24557 000	HOLSET	3536811
286 TC 24557 000	HOLSET	3537074
286 TC 24557 000	HOLSET	3537132
286 TC 24557 000	HOLSET	3592512
286 TC 24557 000	HOLSET	3592678
286 TC 24929 000	HOLSET	3591018
286 TC 24929 000	HOLSET	3591033
286 TC 24929 000	HOLSET	3591039
286 TC 24929 000	HOLSET	3591040
286 TC 24929 000	HOLSET	3591042
286 TC 24929 000	HOLSET	3591733
286 TC 24929 000	HOLSET	3592668
286 TC 24929 000	HOLSET	3596714
286 TC 25004 000	HOLSET	3592811
286 TC 25004 000	HOLSET	3592836
286 TC 25004 000	HOLSET	3596183
286 TC 25004 000	HOLSET	3596191
286 TC 25004 000	HOLSET	3596392
286 TC 25004 000	HOLSET	3596393
286 TC 25004 000	HOLSET	4036239
286 TC 25042 000	HOLSET	4036835
286 TC 25042 000	HOLSET	4036836
286 TC 25042 000	HOLSET	4037006
286 TC 25042 000	HOLSET	4043600
286 TC 25042 000	HOLSET	4089673
286 TC 31102 000	HOLSET	3531733
286 TC 31102 000	HOLSET	3537132
447 TC 24041 000	BORG WARNER	313099
447 TC 24041 000	GARRETT	409080-0001
447 TC 24041 000	GARRETT	409080-0002
447 TC 24041 000	GARRETT	409080-0003
447 TC 24041 000	GARRETT	409080-0004
447 TC 24041 000	GARRETT	409080-0005
447 TC 24041 000	GARRETT	409080-0009
447 TC 24041 000	GARRETT	409080-0010
447 TC 24041 000	GARRETT	409080-0011
599 TC 21006 100	GARRETT	7596229005S
599 TC 21101 000	BORG WARNER	171077



MAHLE	COMPETITOR	
599 TC 21102 000	BORG WARNER	171077
599 TC 21103 100	GARRETT	736553-0003
599 TC 21103 100	GARRETT	736553-0004
599 TC 21103 100	GARRETT	736553-0005
599 TC 21103 100	GARRETT	736553-0006
599 TC 21103 100	GARRETT	736553-0007
599 TC 21103 100	GARRETT	736553-0008
599 TC 21103 100	GARRETT	736553-0009
599 TC 21103 100	GARRETT	736553-0010
599 TC 21103 100	GARRETT	7365545011S
599 TC 24521 000	BORG WARNER	171077
599 TC 24521 100	BORG WARNER	171077
599 TC 24522 000	BORG WARNER	171076
599 TH 21102 000	BORG WARNER	171077

**ACURA**

18900RWCA01 631 TC 20001 100

**ALFA ROMEO**

74036513 447 TC 24041 000  
 RL892938AB 513 TC 20181 000  
 RL892938AC 513 TC 20181 000  
 RL892938AD 513 TC 20181 000  
 RL892938AE 513 TC 20181 000

**ALLIS CHALMERS**

4029144 447 TC 24041 000  
 4029145 447 TC 24041 000  
 4029146 447 TC 24041 000  
 4029700 447 TC 24041 000  
 4029954 447 TC 24041 000  
 4036391 447 TC 24041 000  
 4036392 447 TC 24041 000  
 4036393 447 TC 24041 000

**AUDI**

028 145 702 N 030 TC 14413 000  
 028 145 702 NX 030 TC 14413 000  
 028145701J 030 TC 14156 000  
 028145701JV 030 TC 14156 000  
 028145701JX 030 TC 14156 000  
 028145701Q 030 TC 14156 000  
 028145701QV 030 TC 14156 000  
 028145701QX 030 TC 14156 000  
 028145701R 030 TC 14050 000  
 028145701RV 030 TC 14050 000  
 028145701RX 030 TC 14050 000  
 028145701S 030 TC 14050 000  
 028145702F 030 TC 14156 000  
 028145702FV 030 TC 14156 000  
 028145702FX 030 TC 14156 000  
 028145702N 030 TC 14413 000  
 028145702NV 030 TC 14413 000  
 028145702NV225 030 TC 14413 000  
 028145702NV500 030 TC 14413 000  
 028145702NX 030 TC 14413 000  
 038 253 014 QX 030 TC 20011 100  
 038145702E 030 TC 14364 000  
 038145702EV 030 TC 14364 000  
 038145702EV110 030 TC 14364 000  
 038145702EX 030 TC 14364 000  
 038145702G 030 TC 14364 000  
 038145702GV 030 TC 14364 000  
 038145702GX 030 TC 14364 000  
 038145702J 030 TC 14364 000  
 038145702JV 030 TC 14364 000  
 038145702JX 030 TC 14364 000  
 038145702N 030 TC 14364 000

**AUDI**

038145702NV 030 TC 14364 000  
 038145702NX 030 TC 14364 000  
 038145702V 030 TC 14364 000  
 038145702X 030 TC 14364 000  
 038253010A 030 TC 15116 000  
 038253019A 030 TA 14233 000  
 038253019AV 030 TA 14233 000  
 038253019AX 030 TA 14233 000  
 038253019C 030 TA 15116 000  
 038253019CV 030 TA 15116 000  
 038253019CV500 030 TA 15116 000  
 038253019CX 030 TA 15116 000  
 03G253016K 030 TA 14233 000  
 03G253016KV 030 TA 14233 000  
 03G253016KX 030 TA 14233 000  
 03G253016LX 030 TC 15116 000  
 03G253016N 030 TA 15116 000  
 03G253016NV 030 TA 15116 000  
 03G253016NX 030 TA 15116 000  
 04L253010B 030 TA 11002 000  
 04L253010T 030 TA 11002 000  
 04L253019P 030 TA 11004 000  
 04L253019Q 030 TA 11002 000  
 04L253020M 030 TA 11002 000  
 04L253020MV 030 TA 11002 000  
 04L253020MX 030 TA 11002 000  
 04L253020P 030 TA 11004 000  
 04L253020PV 030 TA 11004 000  
 04L253020PX 030 TA 11004 000  
 04L253020Q 030 TA 11002 000  
 04L253020QV 030 TA 11002 000  
 04L253020QX 030 TA 11002 000  
 058145703B 030 TA 14306 000  
 058145703C 030 TA 14306 000  
 058145703CV 030 TA 14306 000  
 058145703CX 030 TA 14306 000  
 058145703D 030 TA 14306 000  
 058145703DV 030 TA 14306 000  
 058145703DX 030 TA 14306 000  
 058145703E 030 TA 14306 000  
 058145703EV 030 TA 14306 000  
 058145703EX 030 TA 14306 000  
 058145703H 030 TA 14306 000  
 058145703HV 030 TA 14306 000  
 058145703HX 030 TA 14306 000  
 058145703J 030 TC 14082 000  
 058145703JV 030 TC 14082 000  
 058145703JX 030 TC 14082 000  
 058145703K 030 TC 14082 000  
 058145703KV 030 TC 14082 000  
 058145703KX 030 TC 14082 000  
 058145703L 030 TA 14306 000

**AUDI**

058145703LV 030 TA 14306 000  
 058145703LX 030 TA 14306 000  
 058145703N 030 TC 14082 000  
 058145703NV 030 TC 14082 000  
 058145703NX 030 TC 14082 000  
 058145703Q 030 TC 14082 000  
 058145703QV 030 TC 14082 000  
 058145703QX 030 TC 14082 000  
 058145705HP 030 TA 14665 000  
 06A145702F 030 TA 15091 000  
 06A145702FV 030 TA 15091 000  
 06A145702FX 030 TA 15091 000  
 06A145703H 030 TA 14306 000  
 06A145703HV 030 TA 14306 000  
 06A145703HX 030 TA 14306 000  
 06A145703L 030 TA 14306 000  
 06A145703LV 030 TA 14306 000  
 06A145703LX 030 TA 14306 000  
 06A145704Q 030 TA 15091 000  
 06A145704QV 030 TA 15091 000  
 06A145704QX 030 TA 15091 000  
 06A145713B 030 TC 21201 000  
 06A145713D 030 TC 21201 000  
 06A145713DX 030 TC 21201 000  
 06A145713F 030 TC 21201 000  
 06A145713FX 030 TC 21201 000  
 06A145713L 030 TC 21201 000  
 06A145713M 030 TC 21201 000  
 06D145701B 030 TC 20168 000  
 06D145701BX 030 TC 20168 000  
 06D145701C 030 TC 20168 000  
 06D145701CX 030 TC 20168 000  
 06D145701D 030 TC 20168 000  
 06D145701DX 030 TC 20168 000  
 06D145701E 030 TC 20168 000  
 06D145701EX 030 TC 20168 000  
 06D145701F 030 TC 20168 000  
 06D145701FX 030 TC 20168 000  
 06D145701G 030 TC 20168 000  
 06D145701GX 030 TC 20168 000  
 06D145701H 030 TC 20168 000  
 06D145701HX 030 TC 20168 000  
 06D145701J 030 TC 20168 000  
 06F 145 701 F 030 TC 20022 000  
 06F 145 701 G 030 TC 20022 000  
 06F145702C 030 TC 14638 000  
 06F145702CV 030 TC 14638 000  
 06F145702CX 030 TC 14638 000  
 1010435 030 TC 14156 000  
 1106003 030 TC 14156 000

BMW ALPINA	
11654564710	082 TC 20183 000
11654564711	082 TC 20184 000
11657563685	082 TC 20183 000
11657563686	082 TC 20184 000
11657563692	082 TC 20183 000
11657583863	082 TC 20183 000
11657583864	082 TC 20184 000
11657593015	082 TC 20183 000
11657593016	082 TC 20184 000
11657649289	082 TC 20183 000
11657649290	082 TC 20184 000

CASE (J.I. CASE)	
J906602	286 TC 14234 000
J908293	286 TC 14234 000
J914130	286 TC 14234 000
J919129	286 TC 14234 000
J919130	286 TC 14234 000
J919133	286 TC 14234 000
J919135	286 TC 14234 000
J919139	286 TC 14234 000

CATERPILLAR	
0R-7275	127 TC 24113 000
0R-7285	127 TC 24113 000
0R-7924	127 TC 24113 000
0R4543	127 TC 20187 000
0R5385	127 TC 21103 000
0R5733	127 TC 21003 000
0R5790	127 TH 20005 000
0R5796	127 TC 15120 000
0R5799	127 TC 27057 000
0R5807	127 TC 15122 000
0R5809	127 TC 17332 000
0R5812	127 TC 21102 000
0R5824	127 TC 15121 000
0R5888	127 TH 27057 000
0R6051	127 TC 21003 000
0R6053	127 TC 21003 000
0R6165	127 TC 24162 000
0R6166	127 TC 24163 000
0R6167	127 TC 24100 000
0R6169	127 TC 21003 000
0R6170	127 TC 21003 000
0R6327	127 TH 20003 000
0R6342	127 TC 21104 000
0R6376	127 TC 24174 000
0R6689	127 TC 21003 000
0R6694	127 TC 24116 000
0R6697	127 TH 20005 000
0R6801	127 TH 20003 000
0R6829	127 TC 24169 000

CATERPILLAR	
0R6877	127 TC 24088 000
0R6880	127 TC 20186 000
0R6884	127 TH 20004 000
0R6935	127 TC 24116 000
0R6940	127 TC 24114 000
0R6957	127 TC 21003 000
0R6960	127 TC 21003 000
0R6973	127 TC 21101 000
0R6984	127 TC 24116 000
0R6986	127 TC 24114 000
0R6988	127 TC 24111 000
0R6989	127 TC 24114 000
0R6990	127 TC 24112 000
0R7087	127 TC 24111 000
0R7140	127 TC 24114 000
0R7142	127 TC 24116 000
0R7152	127 TC 24114 000
0R7165	127 TH 20003 000
0R7199	127 TC 24111 000
0R7200	127 TC 24116 000
0R7201	127 TC 24114 000
0R7202	127 TC 24111 000
0R7203	127 TC 24114 000
0R7204	127 TC 24112 000
0R7205	127 TC 24112 000
0R7213	127 TC 24164 000
0R7223	127 TC 24114 000
0R7275	127 TC 24113 000
0R7279	127 TC 21005 000
0R7283	127 TC 24114 000
0R7284	127 TC 24116 000
0R7285	127 TC 24113 000
0R7299	127 TC 24114 000
0R7310	127 TC 24114 000
0R7569	127 TC 21208 000
0R7923	127 TC 24114 000
0R7924	127 TC 24113 000
0R9802	127 TC 21101 000
0R9865	127 TC 21005 000
0R9928	127 TC 24112 000
1004095	127 TH 20003 000
102-9429	127 TC 21003 000
1054588	127 TH 20002 000
1078702	127 TH 20002 000
10R0364	127 TC 21101 000
10R0921	127 TC 20186 000
10R1065	127 TC 20185 000
10R1103	127 TC 21206 000
10R1795	127 TC 21211 000
10R1887	127 TC 21201 000
10R1888	127 TC 21204 000
10R2027	127 TC 21205 000

CATERPILLAR	
10R2407	127 TC 21201 000
10R2962	127 TC 20185 000
10R3280	127 TC 21206 000
10R8733	127 TC 21202 000
1106979	127 TC 24169 000
1106981	127 TC 24169 000
112-2215	127 TC 24088 000
1137919	127 TC 20186 000
116-9574	127 TC 24116 000
1169574	127 TC 24116 000
1169582	127 TC 24114 000
1169586	127 TC 24114 000
1198518	127 TC 21003 000
120-8362	127 TC 21101 000
124-3030	127 TC 24116 000
124-3032	127 TC 24114 000
124-3034	127 TC 24111 000
124-3035	127 TC 24114 000
124-3759	127 TC 24112 000
1243030	127 TC 24116 000
1243031	127 TC 24111 000
1243032	127 TC 24114 000
1243034	127 TC 24111 000
1243035	127 TC 24114 000
1243759	127 TC 24112 000
131-2427	127 TC 24111 000
1312427	127 TC 24111 000
132-3649	127 TC 24112 000
132-3651	127 TC 24111 000
1323649	127 TC 24112 000
1323651	127 TC 24111 000
136-6390	127 TC 24114 000
1366390	127 TC 24114 000
1367619	127 TC 24116 000
1374832	127 TC 24114 000
141-8937	127 TC 24114 000
141-8938	127 TC 24111 000
141-8939	127 TC 24114 000
141-8940	127 TC 24112 000
1418935	127 TC 24111 000
1418936	127 TC 24116 000
1418937	127 TC 24114 000
1418938	127 TC 24111 000
1418939	127 TC 24114 000
1430522	127 TC 24164 000
146-4328	127 TC 24114 000
1464328	127 TC 24114 000
155-5463	127 TC 24174 000
1559661	127 TC 21005 000
159-8542	127 TC 24113 000
1598542	127 TC 24113 000
160-5550	127 TC 24116 000

**CATERPILLAR**

1605548	127 TC 24114 000
1605550	127 TC 24116 000
161-4378	127 TC 21101 000
1616352	127 TC 24113 000
162-9103	127 TC 21208 000
1629103	127 TC 21208 000
1660327	127 TC 21208 000
1666752	127 TC 24114 000
167-9271	127 TC 24114 000
176-7716	127 TC 24111 000
1767716	127 TC 24111 000
177-1063	127 TC 21101 000
177-1064	127 TC 21101 000
178225	127 TH 20005 000
191-8028	127 TC 21208 000
192-0949	127 TC 21208 000
193-5867	127 TC 21208 000
195-5993	127 TC 21005 000
195-6029	127 TC 21101 000
195-6031	127 TC 21101 000
1955993	127 TC 21005 000
1965949	127 TC 24111 000
1965951	127 TC 24114 000
1965952	127 TC 24113 000
196664	127 TH 20005 000
198-1845	127 TC 21101 000
198-1846	127 TC 21101 000
198-8717	127 TC 21208 000
198-8718	127 TC 21208 000
198-8720	127 TC 21208 000
198-8721	127 TC 21208 000
198-8722	127 TC 21208 000
198-8723	127 TC 21208 000
198-8724	127 TC 21208 000
198-8725	127 TC 21208 000
198-8726	127 TC 21208 000
198-8727	127 TC 21208 000
1981845	127 TC 21101 000
1P0035	127 TC 27057 000
1P9136	127 TC 27057 000
1W5210	127 TC 27057 000
207-7934	043 TC 17973 000
2146914	127 TH 20004 000
219-9772	043 TC 17973 000
2191911	127 TC 20186 000
222-1133	127 TC 20185 000
228-3228	127 TC 21206 000
2283228	127 TC 21206 000
2314140	127 TC 21205 000
2314142	127 TC 21205 000
2316616	127 TC 21204 000
2321805	127 TC 21204 000

**CATERPILLAR**

2321811	127 TC 21204 000
2331589	127 TC 21201 000
2331592	127 TC 21201 000
2331596	127 TC 21201 000
2375270	127 TC 21211 000
2375271	127 TC 21211 000
239-8316	127 TC 20185 000
2395581	127 TC 21205 000
2395583	127 TC 21205 000
245-7113	127 TC 21204 000
251-4820	127 TC 21201 000
2514820	127 TC 21201 000
2592400	127 TC 21202 000
261-6857	127 TC 20185 000
269-2920	127 TC 21206 000
2690064	GS33660
2847707	127 TC 21202 000
291-3997	127 TC 21204 000
2913997	127 TC 21204 000
2W1953	127 TH 27057 000
312560	127 TH 20005 000
3125932	GS33660
313716	127 TH 20005 000
3184328	GS33666
3184348	GS33666
3189648	GS33666
3255171	GS33666
3374832	127 TC 24114 000
4N6858	127 TC 15120 000
4N6859	127 TC 27057 000
4N6860	127 TH 27057 000
4N8969	127 TC 17332 000
4N9544	127 TC 21103 000
4N9617	127 TC 21102 000
4N9618	127 TC 21102 000
4N9714	127 TC 27057 000
4P2059	127 TC 24162 000
4P2060	127 TC 24163 000
4P2061	127 TC 24100 000
4P2064	127 TC 21003 000
4P2458	127 TC 21003 000
4P9584	127 TC 24174 000
518018	127 TC 15123 000
518018	127 TC 15123 000
6I4574	127 TC 24116 000
6N1524	127 TH 17332 000
6N1571	127 TC 17332 000
6N6515	127 TC 15121 000
6N6529	127 TH 17332 000
6N7155	127 TC 15120 000
6N8477	127 TC 15121 000
6N8566	127 TC 15121 000

**CATERPILLAR**

6N8653	127 TH 17332 000
7C2860	127 TH 20002 000
7C3446	127 TC 20187 000
7C4930	127 TC 20187 000
7C7577	127 TH 20005 000
7C7599	127 TH 20005 000
7C8632	127 TC 21104 000
7E0460	127 TC 21003 000
7E2602	127 TC 15121 000
7E3835	127 TC 21003 000
7N4651	127 TC 15120 000
7N7748	127 TC 15122 000
7N9850	127 TC 15120 000
7W3570	127 TH 20003 000
7W9568	127 TC 21003 000
8N4774	127 TC 15121 000

**CUMMINS**

144407-0000	286 TC 24516 000
2834419	286 TC 21006 000
2835911	286 TC 21101 100
2837647	286 TC 21101 100
2839682	286 TC 21101 100
2882059	183 TH 20002 000
3001559	183 TC 24562 000
3024387	183 TC 24562 000
3026924	183 TC 24562 000
3032031	183 TC 24562 000
3032052	183 TC 24562 000
3032060	183 TC 24562 000
3081960	183 TC 24562 000
3101268	GS33617
3102314	GS33617
3519807	GS33583
3520030	286 TC 14234 000
3522866	183 TC 24517 000
3522867	183 TC 24519 000
3522872	183 TC 24518 000
3523273	183 TC 24517 000
3525238	286 TC 15235 000
3525998	183 TC 24564 000
3527046	183 TC 24563 000
3527047	183 TC 24563 000
3527547	183 TC 24564 000
3528552	183 TC 24276 000
3528602	183 TC 24276 000
3528742	286 TC 14015 000
3528743	286 TC 14234 000
3528744	286 TC 14234 000
3529032	183 TC 24563 000
3529040	183 TC 24562 000
3529435	183 TC 24276 000



CUMMINS		CUMMINS		CUMMINS	
3530714	286 TC 14015 000	3535638	286 TC 31104 000	3538350	183 TH 20002 000
3530721	286 TC 14234 000	3535641	183 TH 20002 000	3538351	286 TC 21102 000
3530767	183 TC 24276 000	3535655	183 TH 20002 000	3538352	183 TH 20002 000
3530772	286 TC 14015 000	3535664	183 TH 20002 000	3538572	183 TH 20002 000
3531733	286 TC 24557 000	3535665	183 TH 20002 000	3538574	183 TH 20002 000
3532054	183 TC 24276 000	3535789	183 TH 20002 000	3538575	183 TH 20002 000
3532222	183 TH 20002 000	3535791	183 TH 20002 000	3538677	286 TC 31104 000
3533000	183 TH 20002 000	3535792	183 TH 20002 000	3538706	183 TH 20002 000
3533001	183 TH 20002 000	3536058	183 TH 20002 000	3538707	183 TH 20002 000
3533004	183 TH 20002 000	3536095	286 TC 24557 000	3538853	183 TH 20002 000
3533006	183 TH 20002 000	3536263	286 TC 24557 000	3538856	183 TH 20002 000
3533007	183 TH 20002 000	3536296	183 TH 20002 000	3538857	183 TH 20002 000
3533008	183 TH 20002 000	3536298	183 TH 20002 000	3539311	183 TH 20002 000
3533009	183 TH 20002 000	3536300	183 TH 20002 000	3539369	286 TC 21007 000
3533010	183 TH 20002 000	3536301	183 TH 20002 000	3539370	286 TC 21007 000
3533012	183 TH 20002 000	3536306	183 TH 20002 000	3539394	286 TC 21008 000
3533013	183 TH 20002 000	3536309	183 TH 20002 000	3539477	183 TH 20002 000
3533014	183 TH 20002 000	3536310	183 TH 20002 000	3539911	286 TC 21003 000
3533015	183 TH 20002 000	3536311	183 TH 20002 000	3590044	286 TC 21006 000
3533132	183 TH 20002 000	3536677	286 TC 14234 000	3590045	286 TC 21006 000
3533369	183 TH 20002 000	3536909	183 TH 20002 000	3590407	183 TH 20002 000
3533370	183 TH 20002 000	3537063	183 TH 20002 000	3591246	183 TH 20002 000
3533372	183 TH 20002 000	3537074	286 TC 24557 000	3591426	183 TH 20002 000
3533373	183 TH 20002 000	3537125	183 TH 20002 000	3591427	183 TH 20002 000
3533375	183 TH 20002 000	3537126	183 TH 20002 000	3591459	183 TC 23538 000
3533376	183 TH 20002 000	3537127	286 TC 31104 000	3592219	183 TH 20002 000
3534286	286 TC 21103 000	3537128	183 TH 20002 000	3592220	183 TH 20002 000
3534854	183 TH 20002 000	3537130	183 TH 20002 000	3592224	286 TC 21103 000
3535004	183 TH 20002 000	3537133	286 TC 31102 000	3592225	286 TC 21103 000
3535005	183 TH 20002 000	3537134	286 TC 31102 000	3592226	286 TC 21103 000
3535324	183 TH 20002 000	3537135	286 TC 31102 000	3592766	286 TC 21002 000
3535381	286 TC 14234 000	3537136	286 TC 31102 000	3593655	183 TH 20002 000
3535414	286 TC 14015 000	3537137	286 TC 31102 000	3594289	183 TH 20002 000
3535415	286 TC 14015 000	3537137	286 TC 31102 000	3594596	183 TH 20002 000
3535416	286 TC 14015 000	3537290	183 TH 20002 000	3594735	286 TC 25004 000
3535417	286 TC 14015 000	3537291	183 TH 20002 000	3596312	183 TH 20002 000
3535418	286 TC 14015 000	3537293	183 TH 20002 000	3596944	183 TH 20002 000
3535420	286 TC 14015 000	3537557	183 TH 20002 000	3597244	183 TH 20002 000
3535421	286 TC 14015 000	3537559	183 TH 20002 000	3597247	183 TH 20002 000
3535422	286 TC 14234 000	3537671	183 TH 20002 000	3597309	183 TH 20002 000
3535423	286 TC 14234 000	3537672	183 TH 20002 000	3597310	183 TH 20002 000
3535424	286 TC 14234 000	3538188	286 TC 14015 000	3597311	183 TH 20002 000
3535425	286 TC 14234 000	3538222	183 TC 23538 000	3597760	183 TH 20002 000
3535426	286 TC 14234 000	3538223	183 TC 23538 000	3597807	183 TH 20002 000
3535427	286 TC 14234 000	3538224	183 TC 23538 000	3597809	183 TH 20002 000
3535454	286 TC 14015 000	3538225	183 TC 23538 000	3597810	183 TH 20002 000
3535617	183 TH 20002 000	3538226	183 TC 23538 000	3597811	183 TH 20002 000
3535619	286 TC 31104 000	3538227	183 TC 23538 000	3598176	286 TC 31102 000
3535620	286 TC 31104 000	3538228	183 TC 23538 000	3598176	286 TC 31102 000
3535634	183 TH 20002 000	3538228	183 TC 23538 000	3598263	183 TH 20002 000
3535635	183 TH 20002 000	3538230	183 TC 23538 000	3598735	183 TH 20002 000
3535636	286 TC 31104 000	3538277	286 TC 14015 000	3598909	183 TH 20002 000

CUMMINS	
3599025	183 TH 20002 000
3599083	183 TH 20002 000
3599105	183 TH 20002 000
3599108	183 TH 20002 000
3599154	183 TH 20002 000
3599177	183 TH 20002 000
3599335	183 TC 23538 000
3599474	183 TH 20002 000
3599601	183 TH 20002 000
3599811	286 TC 21010 000
3599940	001 TC 31102 000
3627695	GS33617
3678603	GS33584
3678762	GS33617
3678786	GS33584
3678912	GS33617
3679139	GS33617
3680324	GS33617
3682177	GS33617
3684284	GS33617
3684359	GS33617
3685535	GS33617
3709861	GS33583
3768088	286 TC 21101 100
3770974	286 TC 21101 100
3790483	286 TC 21101 100
3799840	286 TC 21101 100
3800383	286 TC 24929 000
3800400	183 TC 23538 000
3800471	286 TC 21006 000
3800709	286 TC 15390 000
3800799	286 TC 21002 000
3800799	286 TC 21002 000
3800973	286 TC 25004 000
3800990	286 TC 21103 000
3801489	286 TC 24275 000
3801591	286 TC 24516 000
3801599	183 TC 24518 000
3801613	183 TC 24517 000
3801614	183 TC 24519 000
3801617	183 TC 24517 000
3801918	183 TC 24564 000
3801935	183 TC 24562 000
3801936	183 TC 24562 000
3801960	183 TC 24562 000
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3802290	286 TC 14234 000
3802618	183 TH 20002 000
3802678	286 TC 21007 000
3802770	286 TC 31102 000
3802798	286 TC 15390 000
3802810	286 TC 31104 000

CUMMINS	
3802839	286 TC 21003 000
3802906	286 TC 17385 000
3802946	286 TC 21008 000
3802992	286 TC 21007 000
3803024	286 TC 15235 000
3803108	183 TC 24563 000
3803109	286 TC 16102 000
3803279	183 TC 24562 000
3803287	183 TC 24562 000
3803308	183 TC 24276 000
3803388	183 TC 24276 000
3803553	286 TC 24557 000
3803570	183 TC 25331 000
3803583	286 TC 24555 000
3803584	286 TC 24556 000
3803585	286 TC 24557 000
3803586	183 TC 24276 000
3803673	183 TC 24562 000
3804308	286 TC 24557 000
3804502	286 TC 24557 000
3804800	286 TC 24555 000
3804801	286 TC 24556 000
3804858	286 TC 21102 000
3804964	286 TC 21003 000
3806276	286 TC 17385 000
3883284	GS33582
3901356	GS33582
3902425	GS33582
3906773	GS33582
3922794	GS33583
3928624	GS33616
3931350	GS33582
3931824	GS33583
3935171	GS33617
3937706	GS33582
3949530	GS33584
3963988	GS33617
3977338	GS33616
4010519	GS33617
4025009	286 TC 25004 000
4025218	286 TC 25004 000
4025355	183 TH 20002 000
4026884	GS33617
4027612	183 TH 20002 000
4027849	183 TH 20002 000
4035044	286 TC 21010 000
4035463	183 TH 20002 000
4035653	183 TH 20002 000
4035761	286 TC 31102 000
4036239	286 TC 25004 000
4036244	183 TH 20002 000
4036246	183 TH 20002 000

CUMMINS	
4036836	286 TC 25042 000
4036963	183 TH 20002 000
4037001	286 TC 25042 000
4037702	183 TH 20002 000
4038135	183 TH 20002 000
4038421	183 TH 20002 000
4038427	183 TH 20002 000
4039173	286 TC 21006 000
4043137	286 TC 21101 100
4043600	286 TC 25042 000
4044188	286 TC 31104 000
4044990	286 TC 31104 000
4046031	286 TC 21006 000
4046837	286 TC 21101 100
4049440	183 TC 24563 000
4089392	286 TC 21010 000
4089642	286 TC 25004 000
4089673	286 TC 25042 000
4089797	286 TC 25042 000
4089797NX	286 TC 25042 000
4089797RX	286 TC 25042 000
4931365	GS33584
4934278	GS33617
4934279	GS33617
4955361	286 TC 21101 100
4955361NX	286 TC 21101 100
4955397	286 TC 21101 100
4955657	183 TC 23538 100
5264570	GS33617
5326057	286 TC 21102 100
5327046	286 TC 21102 100
AR12600	183 TC 24562 000
AR12608	183 TC 24562 000
AR45432	183 TC 24562 000
J919117	286 TC 14015 000

DETROIT DIESEL	
23503732	098 TC 24131 000
23504966	098 TC 24130 000
23504967	098 TC 24130 000
23507908	098 TC 24131 000
23508405	098 TC 24133 000
23508406	098 TC 24133 000
23508410	098 TC 24132 000
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23515635	098 TC 24136 000
23515636	098 TC 24136 000
23515894	098 TC 24133 000
23516431	098 TC 24136 000
23518588	098 TC 24137 000
23518597	098 TC 24137 000
23518695	098 TC 24133 000

DETROIT DIESEL	
23521167	098 TC 24133 000
23522188	098 TC 25592 000
23522189	098 TC 25592 000
23522190	098 TC 25592 000
23522191	098 TC 25592 000
23522306	098 TC 25592 000
23522312	098 TC 25592 000
23522781	098 TC 25592 000
23523040	098 TC 25592 000
23523197	098 TC 24137 000
23523478	098 TC 25592 000
23525462	098 TC 25592 000
23525463	098 TC 25592 000
23526016	098 TC 25592 000
23526017	098 TC 25592 000
23526271	098 TC 25592 000
23526272	098 TC 25592 000
23526679	098 TC 25592 000
23526680	098 TC 25592 000
23526681	098 TC 25592 000
23526682	098 TC 25592 000
23526683	098 TC 25592 000
23526684	098 TC 25592 000
23526685	098 TC 25592 000
23526692	098 TC 25592 000
23528029	098 TC 24133 000
23528051	098 TC 21101 000
23528052	098 TC 25592 000
23528053	098 TC 25592 000
23528054	098 TC 25592 000
23528055	098 TC 25592 000
23528058	098 TC 25592 000
23528059	098 TC 25606 000
23528060	098 TC 25592 000
23528062	098 TC 25592 000
23528065	098 TC 21101 000
23528066	098 TC 25592 000
23528067	098 TC 25592 000
23528069	098 TC 25592 000
23533361	098 TC 20173 000
23534356	098 TC 20173 000
23534361	098 TC 20173 000
23534775	098 TC 20195 000
2585838C91	098 TC 24137 000
33528064	098 TC 25592 000
8929435	098 TC 24131 000
8929507	098 TC 24130 000
8929796	098 TC 24131 000
8929797	098 TC 24130 000
8929902	098 TC 24131 000
8929903	098 TC 24130 000
E23534361	098 TC 20173 000

DETROIT DIESEL	
R23515635	098 TC 24136 000
R23534361	098 TC 20173 000
R23534775	098 TC 20195 000

DODGE	
04884234AC	513 TC 20182 000
4856400	286 TC 21007 000
4884234AC	513 TC 20182 000
5011 921AA	GS33616
5016 684AA	GS33616
5017787AD	286 TC 25004 000
5086 939AA	GS33616
5104006AA	001 TA 15049 000
5117505AA	001 TC 21102 000
5142494AA	001 TC 21102 000
5143256AA	286 TC 25042 000
5183 354AA	GS33616
5186 354AA	GS33616
68003 277AA	GS33616
68004663AA	001 TC 18127 000
68005 334AA	GS33616
6801 9589AA	001 TC 18127 000
6804 3064AA	001 TC 18127 000
68043064AA	001 TC 18127 100
68048234AA	286 TC 21101 100
68212739AA	286 TC 21102 100
CJ5Z6K682CA	014 TC 22001 100
CJ5Z6K682E	014 TC 22001 100
CJ5Z6K682F	014 TC 22001 100
R5010276AA	286 TC 21007 000
R5010960AA	286 TC 21003 000
R5010961AA	286 TC 21008 000
R5017509AA	286 TC 21002 000
R5017787AE	286 TC 25004 000
R5086863AB	286 TC 21010 000
R5104006AB	001 TA 15049 000
R5143256AA	286 TC 25042 000
R8048234AA	286 TC 21101 100
R8048234AG	286 TC 21101 100
RL064587AA	513 TC 20182 000
RL142494AA	001 TC 21102 000
RL892938AF	513 TC 20181 000

FERRARI	
74036513	447 TC 24041 000
RL892938AB	513 TC 20181 000
RL892938AC	513 TC 20181 000
RL892938AD	513 TC 20181 000
RL892938AE	513 TC 20181 000

FORD USA	
1002829	030 TA 14156 000

FORD USA	
1821328C91	014 TC 24004 100
1821329C91	014 TC 24004 100
3C3Z-9T514-AD	GS33576
3C3Z6K682CBRM	015 TC 21006 100
3C3Z6K682CCRM	015 TC 21006 100
4C3Z6K682CDRM	014 TC 26159 100
5C3Z6K682CCRM	014 TC 26160 000
5C3Z6V682ARM	014 TC 24005 100
8C3Z 6K682-A	014 TC 21101 000
8C3Z 6K682-B	014 TC 21102 000
8C3Z 9T514-A	GS33566A
8C3Z-9T514-B	GS33566A
8C3Z6K682AARM	014 TC 21101 000
8C3Z6K682BARM	014 TC 21102 000
95VW6K682AA	030 TA 14156 000
95VW6K682AB	030 TC 14156 000
BC3Z-9T514-A	GS33692
BC3Z6K682A	014 TC 25001 100
BC3Z6K682B	014 TC 25002 100
BC3Z6K682C	014 TC 25001 100
BL3E9G438UA	014 TC 24020 000
BL3E9G438VA	014 TC 24021 000
BL3Z6K682C	014 TC 24020 000
BL3Z6K682D	014 TC 24021 000
CB5Z6K682B	014 TC 22003 100
CB5Z6K682D	014 TC 22003 100
CB5Z6K682F	014 TC 22003 100
CL3E6K682A	014 TC 24020 000
CL3E6K682B	014 TC 24021 000
CL3Z6K682A	014 TC 24020 000
CL3Z6K682B	014 TC 24021 000
E7HN 6K682-EB	014 TC 31103 000
F0NN6K682BA	014 TC 31104 000
F4TZ6VK682CARM	144 TC 24007 100
F6TZ6K682ARM	014 TC 26158 000
F81Z 6N639-CARM	015 TP 21003 000
F81Z6K682BARM	015 TC 21003 000
FC3Z-9T514-A	GS33789

GENERAL MOTORS	
12635167	599 TC 20194 100
12642129	599 TC 20194 100
12642314	599 TC 20194 100
800799-9003	599 TC 20194 100

GMC	
10154652	599 TC 24521 000
10183934	599 TC 24522 000
10226226	599 TC 24522 000
10241690	599 TC 21002 000
12512988	599 TC 24521 000
12515808	599 TC 24522 000



GMC	
12521577	599 TC 24522 000
12522149	599 TC 24522 000
12530336	599 TC 21102 000
12530339	599 TC 21002 000
12532429	599 TC 21003 100
12533738	599 TH 21102 000
12552737	599 TH 21102 000
12552738	599 TC 21101 000
12553949	599 TC 21003 100
12556124	599 TC 21102 000
12635167	599 TC 20194 100
12639460	599 TC 21007 100
12642129	599 TC 20194 100
12642314	599 TC 20194 100
2639460	599 TC 21007 100
8972541604	599 TC 21004 100
8973077111	599 TC 21005 000
97192618	GS33678
97192619	GS33678
97208191	GS33678
97227012	GS33678
97256733	GS33678
97307711	599 TC 21005 000
97328807	GS33678
97331137	GS33678
97387896	599 TC 21103 100
97720748	599 TC 21005 000
97720749	599 TC 21004 100
98003366	599 TC 21006 100
98011735	599 TC 21006 100
98021617	599 TC 21007 000
98065854	599 TC 21007 000

JEEP	
04884234AC	513 TC 20182 000
4856400	286 TC 21007 000
4884234AC	513 TC 20182 000
5011 921AA	GS33616
5016 684AA	GS33616
5017787AD	286 TC 25004 000
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68003 277AA	GS33616
68004663AA	001 TC 18127 000
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6801 9589AA	001 TC 18127 000
6804 3064AA	001 TC 18127 000

JEEP	
68043064AA	001 TC 18127 100
68048234AA	286 TC 21101 100
68212739AA	286 TC 21102 100
CJ5Z6K682CA	014 TC 22001 100
CJ5Z6K682E	014 TC 22001 100
CJ5Z6K682F	014 TC 22001 100
R5010276AA	286 TC 21007 000
R5010960AA	286 TC 21003 000
R5010961AA	286 TC 21008 000
R5017509AA	286 TC 21002 000
R5017787AE	286 TC 25004 000
R5086863AB	286 TC 21010 000
R5104006AB	001 TA 15049 000
R5143256AA	286 TC 25042 000
R8048234AA	286 TC 21101 100
R8048234AG	286 TC 21101 100
RL064587AA	513 TC 20182 000
RL142494AA	001 TC 21102 000
RL892938AF	513 TC 20181 000

JOHN DEERE	
AR45730	183 TC 24519 000
AR64626	128 TC 24045 000
AR74819	128 TC 24045 000
AR80312	128 TC 24045 000
AR87421	128 TC 24045 000
RE16967	128 TC 24045 000
RE16970	128 TC 24045 000
RE16971	128 TC 24045 000
RE19778	128 TC 24045 000
RE19780	128 TC 24046 000
RE19784	128 TC 24045 000
RE20167	128 TC 24045 000
RE500082	128 TC 24778 000
RE515732	128 TC 20167 000
RE519042	128 TC 24778 000
RE60074	128 TC 20167 000
RE60388	128 TC 20167 000
RE65359	128 TC 24778 000
RE65360	128 TC 24778 000
RE65361	128 TC 24778 000
RE70340	128 TC 24778 000
SE500276	128 TC 20167 000
SE500430	128 TC 24778 000

MACK	
33164657862	193 TC 24652 000
631GC4101P12	193 TC 24652 000
631GC4101P14	193 TC 24652 000
631GC4101P17	193 TC 24652 000
631GC4101P18	193 TC 24652 000
631GC4101P20	193 TC 24652 000

MACK	
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631GC4101P8	193 TC 24652 000
631GC4101P9	193 TC 24652 000
631GC4104	193 TC 24652 000
631GC4111P27	193 TC 24652 000
631GC439	193 TC 24652 000
631GC463	193 TC 24651 000
631GC466A	193 TC 24652 000
631GC485A	193 TC 24656 000
631GC487P1	193 TC 24652 000
631GC487P2	193 TC 24652 000
631GC487P3	193 TC 24652 000
631GC5100P2	193 TC 24656 000
631GC5100P4	193 TC 24657 000
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631GC5100P6	193 TC 24657 000
631GC5103	193 TC 24651 000
631GC5103P2	193 TC 24652 000
631GC5105P4	193 TC 24652 000
631GC5105P5	193 TC 24652 000
631GC5105P7	193 TC 24657 000
631GC5106P6	193 TC 24652 000
631GC5172AM5	193 TC 24277 000
631GC5172AM5X	193 TC 24277 000
631GC5172AM6	193 TC 24277 000
631GC5172AM6X	193 TC 24277 000
631GC5172M5	193 TC 24277 000
631GC5172M5X	193 TC 24277 000
631GC5172M6	193 TC 24277 000
631GC5172M6X	193 TC 24277 000

MERCEDES-BENZ	
005 096 7199	001 TC 17005 000
005 096 7299	001 TC 17005 000
006 096 3799	001 TC 17005 000
006 096 3899	001 TC 17005 000
008 096 1699	001 TC 17005 000
008 096 1799	001 TC 17005 000
008 096 1899	001 TC 17005 000
0080961699	001 TC 17005 000
0080961799	001 TC 17005 000
009 096 8699	001 TC 17005 000
009 096 8799	001 TC 17005 000
0090961799	001 TC 17005 000
0090961899	001 TC 17005 000
0090968699	001 TC 17005 000
0090968799	001 TC 17005 000
366 096 36 99	001 TC 31101 000
3660963699	001 TC 31101 000
376 096 08 99	001 TC 31101 000
376 096 70 99	001 TC 31101 000

MERCEDES-BENZ	
376 096 71 99	001 TC 31101 000
6120960399	001 TA 15049 000
6420900880	001 TC 18126 000
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6420902180	001 TC 18126 000
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6420906980	001 TC 18127 000
6420908580	001 TC 18126 000
6420908680	001 TC 18126 000
6420908980	001 TC 18126 000
6470900280	001 TC 21102 000
904 096 35 99	001 TC 21101 000
904 096 41 99	001 TC 21101 000
904 096 59 99	001 TC 21101 000
904 096 71 99	001 TC 21101 000
904 096 90 99	001 TC 21101 000
9040963599	001 TC 21101 000
9040964199	001 TC 21101 000
9040965999	001 TC 21101 000
9040967199	001 TC 21101 000
9040969099	001 TC 21101 000
906 096 27 99	001 TC 31102 000
906 096 51 99	001 TC 31102 000
9060960999	001 TC 31102 000
9060962799	001 TC 31102 000
9060962899	001 TC 31102 000
9060964699	001 TC 31102 000
9060965199	001 TC 31102 000
9060965399	001 TC 31102 000
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924 096 1799	001 TC 31103 000
9240961799	001 TC 31103 000
A0080961699	001 TC 17005 000
A6120960399	001 TA 15049 000
A6420901080	001 TC 18127 000
A6470900280	001 TC 21102 000
A9040968899	001 TC 21101 000
RA 904 096 88 99	001 TC 21101 000

MINI	
11657565912	082 TC 20181 000
11657600890	082 TC 20181 000

MITSUBISHI	
49131-07005	082 TC 20183 000
49131-07008	082 TC 20183 000
49131-07009	082 TC 20183 000
49131-07011	082 TC 20184 000
49131-07015	082 TC 20184 000
49131-07016	082 TC 20184 000

MITSUBISHI	
49131-07017	082 TC 20184 000
49131-07018	082 TC 20184 000
49131-07019	082 TC 20184 000
49131-07030	082 TC 20183 000
49131-07040	082 TC 20183 000
49131-07041	082 TC 20184 000
49179-02300	127 TC 15123 000
49377-00220	513 TC 20182 000
49377-06501	479 TC 20179 000
49377-06502	479 TC 20179 000
49377-06510	479 TC 20179 000
49377-06520	479 TC 20179 000

NAVISTAR	
1806077C91	144 TC 21006 000
1806078C91	144 TC 21006 000
1806079C91	144 TC 21006 000
1806080C91	144 TC 21006 000
1809696C91	144 TH 21103 000
1811847C91	144 TC 24294 000
1814659C91	144 TC 24010 000
1817310C91	144 TC 21103 000
1817311C91	144 TC 24267 000
1820612C91	014 TC 24007 100
1820642C91	144 TC 24008 000
1820642C92	144 TC 24010 000
1820646C91	144 TC 24008 000
1820646C92	144 TC 24010 000
1822702C92	014 TC 24007 100
1822763C91	014 TC 26158 000
1822765C91	144 TC 24010 000
1822774C91	014 TC 26158 000
1822774C92	014 TC 26158 000
1822775C91	014 TC 26158 000
1822775C92	014 TC 26158 000
1822776C91	144 TC 24010 000
1822777C91	014 TC 26158 000
1822868C91	014 TC 26158 000
1822868C92	014 TC 26158 000
1822869C91	014 TC 24007 100
1822869C92	014 TC 24007 100
1822872C91	144 TC 24010 000
1825156C92	015 TC 21003 000
1825632C91	144 TC 21002 000
1825632C92	144 TC 21002 000
1825632C93	144 TC 21003 000
1825632RX1	144 TC 21002 000
1825818C91	014 TC 26158 000
1825818C92	014 TC 24007 100
1825878C92	014 TC 24006 100
1826344C91	144 TC 21002 000
1826344C92	144 TC 21002 000

NAVISTAR	
1826344C93	144 TC 21002 000
1831383C92	015 TC 21003 000
1831383C93	015 TC 21003 000
1831383C94	015 TC 21003 000
1831450C91	015 TC 21003 000
1831450C94	015 TC 21003 000
1831452C91	015 TC 21003 000
1831457C91	015 TC 21003 000
1831457C92	015 TC 21003 000
1831457C93	015 TC 21003 000
1832159C91	014 TC 26159 100
1832159C92	014 TC 26159 100
1832160C91	015 TC 21006 100
1832204C92	144 TC 21101 000
1832204C93	144 TC 21101 000
1832204C94	144 TC 21101 000
1832255C91	014 TC 26160 000
1832255C92	014 TC 26160 100
1833204C91	144 TC 21101 000
1836093C92	144 TC 21002 000
1837987C94	015 TC 21006 100
1840053	GS33576
1840053C97	GS33576
1842337C91	144 TC 21008 000
1842337C92	144 TC 21008 000
1842337C93	144 TC 21008 000
1842337C94	144 TC 21008 000
1842337C95	144 TC 21008 000
1842623	GS33641
1842623C96	GS33641
1843761C93	014 TC 26159 100
1843761C94	014 TC 26159 100
1845178C94	014 TC 26159 100
1845178C95	014 TC 26159 100
1845178C98	014 TC 26159 100
1845322C91	014 TC 26159 100
1846765C91	014 TC 26159 100
1846766C91	015 TC 21006 100
1846767C91	014 TC 26159 100
1846768C91	015 TC 21006 100
1848300C92	014 TC 21102 000
1848300C93	014 TC 21102 000
1848300C94	014 TC 21102 000
1848300C95	014 TC 21102 000
1848300C96	014 TC 21102 000
1848300C98	014 TC 21102 000
1848301C1	014 TC 21101 000
1848303C1	014 TC 21102 000
1848303C2	014 TC 21102 000
1848303C3	014 TC 21102 000
1854480C91	014 TC 26159 100
1854593C91	014 TC 26160 000

**NAVISTAR**

1856152C91	014 TC 26159 100
1870932C91	144 TC 21008 000
1870932C92	144 TC 21008 000
1870932C93	144 TC 21008 000
1871090C91	144 TC 21101 000
1871090C92	144 TC 21101 000
1871090C93	144 TC 21101 000
1873429C92	GS33566A
1873429C96	GS33566A
1876493C91	014 TC 26160 000
1877834C91	014 TC 26160 000
1877834C92	014 TC 26160 000
2506765C91	144 TC 21002 000
2506782C91	144 TC 21002 000
4307231R91	015 TC 21003 000
4307282R91	144 TC 21103 000
4307286R91	144 TC 24008 000
4307304R91	014 TS 21101 100
4307305R91	014 TS 21101 100
5010147R93	014 TC 26160 100
5010314R94	144 TC 21008 000
5010314R96	144 TC 21008 000
5010360R91	014 TS 21101 100
5010361R92	014 TS 21101 100
5010399R91	014 TC 26160 100
5010422R91	014 TC 26160 000
5010424R93	015 TC 21006 100
684596C91	144 TC 21005 000
684663C91	144 TC 21006 000
684698C91	144 TC 21005 000
691020C91	144 TC 21005 000
691059C91	144 TC 21005 000
735030C91	144 TC 21005 000
749282C91	144 TC 21005 000
991523C91	144 TC 21006 000
991528C91	144 TC 24294 000
991532C91	144 TH 21103 000
991637C91	144 TC 21103 000
991712C91	144 TC 24010 000
991966C91	014 TC 24005 100

**PERKINS**

043TC211	043 TC 21101 000
2674152	043 TC 21101 000
2674365	043 TC 21101 000
26743674	043 TC 21101 000
2674400	043 TC 10737 000
2674400	043 TC 10737 000
2674A094	043 TC 10996 000
2674A094	043 TC 10996 000
2674A308	043 TC 17973 000
2674A371	043 TC 10996 000

**PERKINS**

2674A371	043 TC 10996 000
2674A375	043 TC 17973 000
2674A375	043 TC 17973 000
2674A375P	043 TC 17973 000
2674A375P	043 TC 17973 000
R1817310C91	144 TC 21103 000

**SAAB**

12788719	479 TC 20179 000
55564941	479 TC 20179 000

**SUBARU**

14411AA510	607 TC 20180 000
14411AA511	607 TC 20180 000
14411AA51A	607 TC 20180 000

**VOLVO**

028145701J	030 TC 14156 100
028145701JX	030 TC 14156 100
038145702G	030 TC 14364 100
038145702GX	030 TC 14364 100
038145702J	030 TC 14364 100
038145702JX	030 TC 14364 100
038145702N	030 TC 14364 100
038145702NX	030 TC 14364 100
058145703EX	030 TC 14306 100
058145703LX	030 TC 14306 100
276807	GS33734
36012378-0	038 TC 20001 000
8602627	038 TC 20001 000
8603226	038 TC 20001 000
8603226-0	038 TC 20001 000

**VW**

028 145 702 N	030 TC 14413 000
028 145 702 NX	030 TC 14413 000
028145701J	030 TC 14156 000
028145701JV	030 TC 14156 000
028145701JX	030 TC 14156 000
028145701Q	030 TC 14156 000
028145701QV	030 TC 14156 000
028145701QX	030 TC 14156 000
028145701R	030 TC 14050 000
028145701RV	030 TC 14050 000
028145701RX	030 TC 14050 000
028145701S	030 TC 14050 000
028145702F	030 TC 14156 000
028145702FV	030 TC 14156 000
028145702FX	030 TC 14156 000
028145702N	030 TC 14413 000
028145702NV	030 TC 14413 000

**VW**

028145702NV225	030 TC 14413 000
028145702NV500	030 TC 14413 000
028145702NX	030 TC 14413 000
038 253 014 QX	030 TC 20011 100
038145702E	030 TC 14364 000
038145702EV	030 TC 14364 000
038145702EV110	030 TC 14364 000
038145702EX	030 TC 14364 000
038145702G	030 TC 14364 000
038145702GV	030 TC 14364 000
038145702GX	030 TC 14364 000
038145702J	030 TC 14364 000
038145702JV	030 TC 14364 000
038145702JX	030 TC 14364 000
038145702N	030 TC 14364 000
038145702NV	030 TC 14364 000
038145702NX	030 TC 14364 000
038145702V	030 TC 14364 000
038145702X	030 TC 14364 000
038253010A	030 TC 15116 000
038253019A	030 TA 14233 000
038253019AV	030 TA 14233 000
038253019AX	030 TA 14233 000
038253019C	030 TA 15116 000
038253019CV	030 TA 15116 000
038253019CV500	030 TA 15116 000
038253019CX	030 TA 15116 000
03G253016K	030 TA 14233 000
03G253016KV	030 TA 14233 000
03G253016KX	030 TA 14233 000
03G253016LX	030 TC 15116 000
03G253016N	030 TA 15116 000
03G253016NV	030 TA 15116 000
03G253016NX	030 TA 15116 000
04L253010B	030 TA 11002 000
04L253010T	030 TA 11002 000
04L253019P	030 TA 11004 000
04L253019Q	030 TA 11002 000
04L253020M	030 TA 11002 000
04L253020MV	030 TA 11002 000
04L253020MX	030 TA 11002 000
04L253020P	030 TA 11004 000
04L253020PV	030 TA 11004 000
04L253020PX	030 TA 11004 000
04L253020Q	030 TA 11002 000
04L253020QV	030 TA 11002 000
04L253020QX	030 TA 11002 000
058145703B	030 TA 14306 000
058145703C	030 TA 14306 000
058145703CV	030 TA 14306 000
058145703CX	030 TA 14306 000
058145703D	030 TA 14306 000

VW	
058145703DV	030 TA 14306 000
058145703DX	030 TA 14306 000
058145703E	030 TA 14306 000
058145703EV	030 TA 14306 000
058145703EX	030 TA 14306 000
058145703H	030 TA 14306 000
058145703HV	030 TA 14306 000
058145703HX	030 TA 14306 000
058145703J	030 TC 14082 000
058145703JV	030 TC 14082 000
058145703JX	030 TC 14082 000
058145703K	030 TC 14082 000
058145703KV	030 TC 14082 000
058145703KX	030 TC 14082 000
058145703L	030 TA 14306 000
058145703LV	030 TA 14306 000
058145703LX	030 TA 14306 000
058145703N	030 TC 14082 000
058145703NV	030 TC 14082 000
058145703NX	030 TC 14082 000
058145703Q	030 TC 14082 000
058145703QV	030 TC 14082 000
058145703QX	030 TC 14082 000
058145705HP	030 TA 14665 000
06A145702F	030 TA 15091 000
06A145702FV	030 TA 15091 000
06A145702FX	030 TA 15091 000
06A145703H	030 TA 14306 000
06A145703HV	030 TA 14306 000
06A145703HX	030 TA 14306 000
06A145703L	030 TA 14306 000
06A145703LV	030 TA 14306 000
06A145703LX	030 TA 14306 000
06A145704Q	030 TA 15091 000
06A145704QV	030 TA 15091 000
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06A145713B	030 TC 21201 000
06A145713D	030 TC 21201 000
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06A145713F	030 TC 21201 000
06A145713FX	030 TC 21201 000
06A145713L	030 TC 21201 000
06A145713M	030 TC 21201 000
06D145701B	030 TC 20168 000
06D145701BX	030 TC 20168 000
06D145701C	030 TC 20168 000
06D145701CX	030 TC 20168 000
06D145701D	030 TC 20168 000
06D145701DX	030 TC 20168 000
06D145701E	030 TC 20168 000
06D145701EX	030 TC 20168 000
06D145701F	030 TC 20168 000

VW	
06D145701FX	030 TC 20168 000
06D145701G	030 TC 20168 000
06D145701GX	030 TC 20168 000
06D145701H	030 TC 20168 000
06D145701HX	030 TC 20168 000
06D145701J	030 TC 20168 000
06F 145 701 F	030 TC 20022 000
06F 145 701 G	030 TC 20022 000
06F145702C	030 TC 14638 000
06F145702CV	030 TC 14638 000
06F145702CX	030 TC 14638 000
1010435	030 TC 14156 000
1106003	030 TC 14156 000



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