

# 2016 TRANSMISSION SYSTEMS

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The power of precision, design and leadership


Automotive technology, naturally



World's largest manufacturer of Original Equipment clutches

# Traditional Clutch Kits

Trusted by major vehicle manufacturers and Aftermarket industry professionals worldwide, Valeo combines its signature engineering and advanced design to deliver uncompromising performance and unrivalled quality.



O.E. Quality

Robust Design

Easy Installation

Constant Pedal Comfort

100% Environment-Friendly Materials

**100% New**  
(not remanufactured)

100% Torque Transfer

Gearbox Protection

Smooth Drive Transfer

Acoustic & Driving Comfort

*Premium Friction Material  
Trusted by Top Global Companies*

## Top 20 Clutch Kits

application	part #	years
Dodge Ram 15/25/3500 Pick up 5.9 6 spd	53301402	2001-2005
Dodge Ram 15/25/3500 Pickup 5.9 5 spd	53101402	1994-2004
Ford F Series Truck 4.2/4.6	52902003	1997-2008
Ford F series Truck 7.3	53302001	1999-2003
Ford F Series Truck 7.3	53302004	1994-1998
Ford Mustang 3.8/3.9	52802004	1994-2004
Ford Mustang Cobra GT 4.6/5.0	52672001	1986-2001
Ford Mustang V-6 4.0	52542010	2005-2006
Ford Ranger 2.3/2.5/3.0	52322001	1995-2008
GM CK Truck 5.7/6.2/7.4	53022203	1982-1995
GM S/T-10 Pick up 2.2	52332205	1996-2001
Honda Accord 2.2/2.3	52252401	1990-2002
Honda Civic 1.5/1.6/1.7	52122403	1992-2000
Hyundai Tiburon 1.8/2.0	52152601	1996-2006
Jeep Cherokee, Wrangler 3.9/4.0	52641404	1992-2006
Mini Cooper 1.6	52001202	2005-2006
Mini Cooper 1.6	52001203	2007-2009
Mini Cooper 1.6 S, Clubman S	52281201	2007-2010
Pontiac Vibe 1.8 /Corolla 1.6/1.8	52125203	1993-2005
Subaru Legacy/Forester 2.5	52254805	1997-2011

**Complete repair solution includes all the components needed to complete the job:**



- Clutch Disc Assembly
- Pressure Plate Cover Assembly
- Release Bearing
- Grease Pack
- Installation Guide
- Flywheel (where needed)
- Pilot Bearing (where needed)
- Alignment Tool (where needed)



Best in class performance preferred by professionals

# Traditional Clutch Kits

valeo added  
technology

## Self Adjusting Technology (S.A.T.)

A Valeo technology that uses an internal self-adjusting device on the pressure plate, therefore extending the clutch life and improving pedal comfort.

## High Efficiency Clutch (H.E.C.)

Our Valeo engineers designed the HEC as an aftermarket alternative to Self-Adjusting technology. HEC provides greater quality, reliability and durability by using an improved cover assembly and low-wear facing.

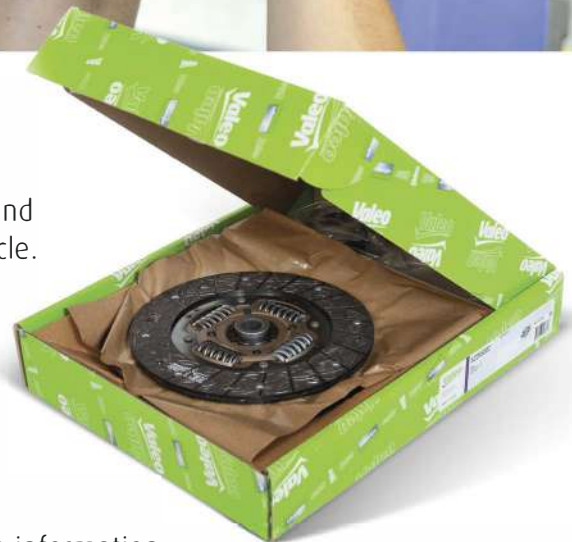
Valeo clutch kits are developed using only the highest quality components and latest technology for exceptional precision and reliability.



## Robust & Secure Packaging:

The Valeo Clutch kit comes packaged to ensure the product arrives and remains free of damage right up to the time it is installed in a vehicle.

- 1 Durable locking tabs ensure product security
- 2 Reinforced box with handheld slots for heavier kits
- 3 Each box designed to precisely fit the product
- 4 Smart label includes coded part number and general application information



Economical and efficient alternative to DMF

# Conversion Kits

Major car manufacturers and millions of drivers are already experiencing **our innovative technology.**

Conversion Kit  
Contains:



**valeo** added  
benefits

**Easy Installation**

Same installation time as a Dual Mass flywheel kit  
- no special tools required

**Durable**

All new components providing better thermal resistance  
and full engine and gearbox protection

**Maximum  
Torque Transfer**

The light weight kit increases torque transfer efficiency and reduces  
torsional stress on the crankshaft.

**Competitive Cost Savings**

Experience savings of 15% - 20% when compared to the DMF Kit

**Driving Comfort**

High filtration of vibrations and noise enhances driving pleasure

**Valeo**

Easy installation and precision fitting

# Conversion Kits

valeo added efficiency

After installing the Valeo Conversion Kit, you will never need to change the flywheel. Only the clutch kit will need to be replaced.

Valeo conversion kits are engineered and tested for an exact fit.

Guaranteed to go the distance.

## Service Advantages:

Installation time and procedure is the same as a standard clutch replacement

Bolts for both the crankshaft and cover are inside the box (when needed)

Installation tips and useful information are inside the box

Centering tool included in the boxes (available for most popular items)

## 33 Conversion Kits

application	conversion kit#	service kit#
Audi 90, 100, A4, A6 2.8 92-01	835046	828101
Audi A4/PASSAT 1.8 97-98	52285615	52285619
Audi A6, Allroad, 54 2.7L 00-05	52405618	828100
Audi TT Q/Jetta 1.8L 6speed 00-06	52405615	52405617
BMW 128i, 325i, xi, 328i, xdrive, 330i, 525i, 528i, xdrive, 528xi, 530i, Z4 3.0 06-10	835115	828533
BMW 318, Z3 1.8/1.9L 90-99	52161203	52161204
BMW 323, 325, 525, Z3 2.5L 99-03	52401225	828484
BMW 325 2.5/2.7 87-95	52281208	52281209
BMW 325, 330, 530, Z3 3.0L 01-03	52401220	52401223
BMW 325xi, 330ci, 1, xi, 530xi, x3 2.5/3.0 04-05	835101	828501
BMW 328, 528, Z3 2.8L 96-99	52401210	828093
Chevrolet 510/C-series 6.5 96-02	53022217	53022211
Chevrolet Suburban 6.5 92-95	53022218	53022213
Chrysler PT Cruiser 2.4L Turbo 03-07	52401406	
Dodge P/U Ram 3500 5.9 05-08	63301405	63301402
Ford F SERIES 7.3 99-02	53302014	53302001
Ford F-series 7.3 87-94	53052006	53052005
Ford F-series 7.3 87-94	53052007	53052005
Ford F-SERIES 7.3L 94-98	53302012	53302004
GM Lt Truck 6.6 01-06	53022216	53022221
Hyundai Optima 2.4, Kia Sonata 2.4 03-05	52252607	52252609
Hyundai Tiburon 2.7 03-05	52252605	52252609
Mini Cooper 1.6 S series 02-08	52151203	52151204
Nissan Altima 2.5L 02-06	52414002	
Volvo C70, S60, S70, V70 2.3/2.4 98-04	845078	828491
Volvo C70, S60, V70 2.3/2.4 03-04	845079	828492
Volvo S60, S70, V70 2.4L 98-04	52285412	828443
Volvo S60, V70 2.4L Naturally Aspirated 00-07	52285413	828444
VW Eurovan 2.4 96-97	52205605	826855
VW Golf IV 2.8L 02-05	52405616	826875
VW JETTA 1.9L TDI 2.5L 06-08	52285616	52285620
Audi TT/Jetta/Golf/New beetle 1.8i / 1.9TDi 01-03	52255602	52255603
VW Jetta 2.0 TDI conversion kit 09-13	52405623	828375

# Performance Applications

## Signature Series

Valeo Signature Series is designed for drivers who demand higher-than-stock performance from their clutch.

### key features:

- Up to 15% higher clamp load
- Performance friction material with a high burst strength
- Increased heat resistance and recoverability
- Excellent friction and wear performance
- Coverage for Domestic & Import Vehicles



## Medium/Heavy Duty

Valeo engineered and manufactured Medium and Heavy Duty clutches allow for better driving performance due to a single disc design that reduces shift effort and eliminates drag. Valeo's diaphragm design increases the life of the clutch by giving uniform plate pressure and greater plate load as the disc assembly wears.

### key features:

Clutch Kits come fully equipped with the following:

- Pressure Plate Cover Assembly
- Clutch Disc Assembly
- Release bearing
- Grease pack
- Alignment Tool & pilot bearing (where needed)



Complete solutions for replacement clutch hydraulics

# Hydraulic Systems

## valeo added technical tips

During each clutch replacement, thoroughly check for traces of fluid on hydraulic parts to confirm if there is leakage.

Valeo recommends that you change both hydraulic actuators at the same time:

**CMC + CRC** or **CMC + CSC**

Both parts usually wear simultaneously when one is defective.

This line includes Clutch Master Cylinders, Clutch Release Cylinders, Concentric Slave Cylinders and Pre-Filled Systems.

### Pre-Filled Systems

Joined by a hydraulic line, pre-filled systems include a clutch master cylinder and a clutch release cylinder. Pre-filled systems are a valuable alternative to bleeding procedures ultimately reducing labor costs.

### Clutch Master Cylinders (CMC)

Converts pressure from the clutch pedal into hydraulic pressure to actuate the release cylinder and to disengage the clutch.

### Clutch Release Cylinders (CRC)

Located outside the transmission bell-housing, it actuates the clutch fork, which is attached to a mechanical release bearing to disengage the clutch.

### Concentric Slave Cylinders (CSC)

Located within the transmission bell-housing, it receives the fluid and actuates directly on the clutch diaphragm via its bearing interface.

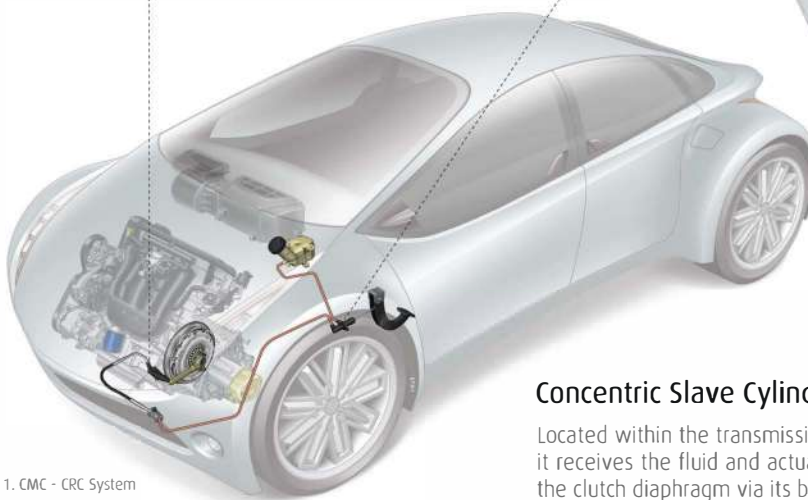


Figure 1. CMC - CRC System

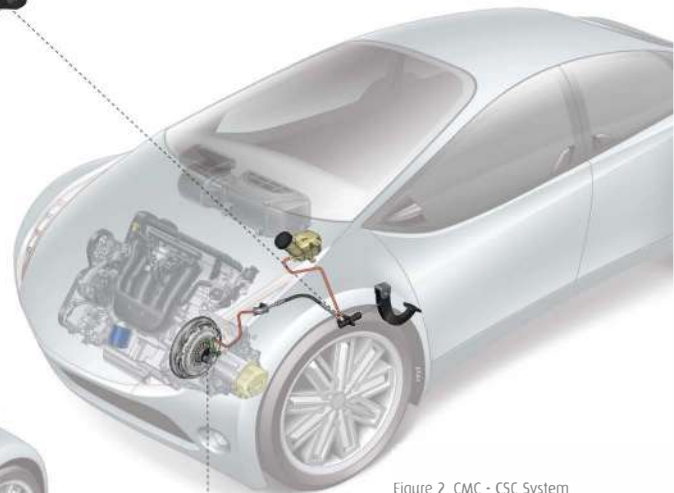


Figure 2. CMC - CSC System



# Flywheels

A close-up, high-angle photograph of a flywheel gear, showing its teeth and the circular structure of the flywheel. The lighting is dramatic, highlighting the metallic texture and the circular patterns.

## valeo DMF benefits

Reduction of engine vibration for improved ride control.

Keeps drivetrain functioning using a "torque limiter", which allows for slip under extreme conditions.

Reduced Gear Shift Effort

Longer Disc Life

## Single Mass Flywheel (SMF)

Valeo Single Mass Flywheel program offers high performing parts for most popular domestic and import vehicles.

## Dual Mass Flywheel (DMF)

The DMF is comprised of two independent masses separated by springs. This splits the inertia between the engine and the transmission to keep the vibration and resonance below the engine idle speed. As a result, there is no transmission gear rattle in the normal speed range of the vehicle.