

DORMAN[®]

NEW SINCE 1918



COMPLEX ELECTRONICS GUIDE

**A GROWING OFFERING OF COMPLEX ELECTRONICS
TO HELP YOU KEEP PACE WITH CHANGING TECHNOLOGY**



NEW PRODUCTS • NEW SOLUTIONS • NEW OPPORTUNITIES



A GROWING OFFERING OF COMPLEX ELECTRONICS

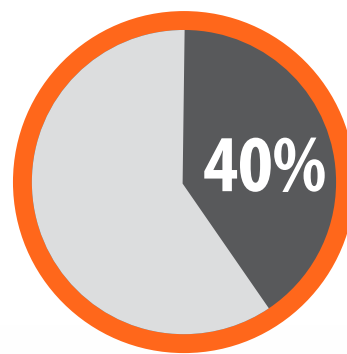
Today's vehicles rely on a host of microprocessors linked by 5 miles of wiring running over 100 million lines of computer code – just to shift into 'drive'.

Dorman leads the Aftermarket with its development and introduction of high-quality solutions for replacement complex electronic modules.

To keep pace with advances in today's electronics, Dorman's Development Teams concentrate on key aspects of module development:

- Software re-engineering
- Encryption
- Vehicle communication protocols
- Flashing solutions

The result is Dorman's comprehensive Complex Electronics offering – designed to save time and money by eliminating a trip to the OE Dealer for both parts and programming.



Electronic components now account for 40% of today's automotive production costs

PAGE THROUGH OUR INNOVATIONS



SAFETY

03-04



CONVENIENCE

05-08



POWER TRAIN

09-11



BODY

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HYBRID

13-15

PAGES

ABS CONTROL MODULES

To help eliminate the original failure mode, an external diode has been added along with complete reflowing of solder joints

Covered by Dorman's Limited Lifetime Warranty

Failure Mode: Water intrusion

20 **OVER SKUS**
AVAILABLE

ALSO AVAILABLE

599-705

Chevrolet Silverado 1500 2002-99,
GMC Sierra 1500 2002-99

599-726

NEW

Chevrolet Blazer 2005-00, Chevrolet S10 2004-00,
GMC Jimmy 2001-00, GMC Sonoma 2004-00

599-710

Chevrolet Avalanche 1500 2004-03,
Chevrolet Silverado 1500 2004-03,
GMC Sierra 1500 2004-03



599-701
Chevrolet 2002-00,
GMC 2002-00



590-200
GM CK Truck Series
2007-05

AIR BAG IMPACT SENSORS

ALSO KNOWN AS: CRASH SENSORS

Plug and play design for an easy installation -
No reprogramming necessary

Failure Mode: Water intrusion and/or collision damage

25 **OVER SKUS**
AVAILABLE

XENON HEADLIGHT CONTROL MODULES

THE AFTERMARKET LEADER IN XENON HID HEADLAMP BALLASTS WITH OVER 10 SKUS AVAILABLE

Restores headlights to proper operation

Failure Mode: Failure results in headlights not illuminating

10 **OVER SKUS**
AVAILABLE



601-056 **NEW**

Various BMW, Land Rover, Ford, GM,
Hyundai, Mercedes and VW models,
2013-02

SAFETY





SAFETY



OCCUPANT DETECTION SENSOR

Popular replacement part due to highly failure prone original sensor in a large population of vehicles

DORMAN ENGINEERED: Upgraded gasket design prevents water intrusion



Failure Mode: Water intrusion and electrical faults

601-004

Most Toyota and Lexus models 2015-05

PASSENGER AIRBAG ON

ABS CONTROL MODULE

Fully Remanufactured and vehicle simulator tested for quality assurance

Updated with more durable main pump transistors to help prevent pump relay burnout

100% replacement of gaskets, gromets and seals

HD EXCLUSIVE

Failure Mode: Water intrusion



599-7001, 599-7002 NEW
Wabco ABS Trailers



POWER STEERING PUMP

Restores hydraulic pressure required for power steering

100% replacement with all new armatures, seals, gaskets, bearings

Failure Mode: Failure results in loss of power steering

599-950

Mini Cooper 2008-02

KEY FOBS

THE AFTERMARKET'S FASTEST GROWING
KEYLESS REMOTE COVERAGE

Simple to Program:

Programming new remote
to existing vehicle takes less
than 5 minutes

All Dorman Keyless Entry
Remotes include everything
needed to program in under
5 minutes

DIRECT REPLACEMENT:

Fit, form and function

DIRECT FIT



DO-IT-YOURSELF PROGRAMMING

Simple plug and play programming tool
takes only minutes to sync Dorman remote
to the vehicle



20 **OVER**
SKUS
AVAILABLE



NEW 13745

Buick, Chevrolet, GMC,
Oldsmobile, Pontiac Sedans
2007-01



13798

Ford Trucks and SUVs 2013-98



13731

Buick, Chevrolet, Pontiac,
Saturn Sedans 2012-04



57001

A variety of
GM SUVs 2015-10

DVD PLAYER REMOTE

Have you lost or broken your
vehicle's DVD remote?

This replacement brings back the
convenience of watching movies in
your vehicle, and restores peace and
quiet on long road trips



10-0500F

Universal

HEADPHONES

Automatically syncs to vehicle's
entertainment systems for easy use

Includes auxiliary jack to connect to MP3
players and smartphones





CONVENIENCE

TOUCH SCREEN INFOTAINMENT DISPLAYS

Remanufactured to address internal solder issues in original design

PLUG AND PLAY: Easy install, no programming required

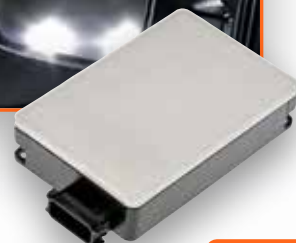
Restores navigation, audio, climate, info display functionality



599-943
Toyota Prius 2009-04
without navigation



599-942
Toyota Prius 2006-04
with navigation



601-035 NEW

Chrysler 300, Durango,
Town and Country 2013-11



590-002
GM CK Truck Series 2006-03



OE FULL ASSEMBLY



SHIFT INTERLOCK MODULE

Prevents vehicle from starting in any gear other than park or neutral

REDUCE REPAIR COST:

Replace just the failed part instead of the entire shifter assembly



Failure Mode: Inability to shift out of park

601-001
Grand Cherokee,
Commander 3.7L 2007-05

POWER SEAT CONTROL MODULE

DORMAN ENGINEERED:

Modules are designed with higher tolerance components to reduce static shock



Failure Mode: Static charge or module overheating causes a loss of ability to control one or more seat functions

BLIND SPOT DETECTION MODULE

Detects objects and vehicle's in close proximity to the drivers blind spot

Failure Mode: Corrosion/water intrusion

INSTRUMENT CLUSTERS*

READY TO INSTALL: Fully programmed with mileage and VIN, no programming or scan tool required

Fully Remanufactured and Tested – All units include all new stepper motor designs and backlight bulbs

*Available in the U.S. only

200 **OVER SKUS** AVAILABLE

CONVENIENCE



599-337

Chevrolet Silverado, Suburban 2012-07,
GMC Sierra, Yukon XL 2012-07



599-390

Cadillac 2002, Chevrolet 2002-00, GMC 2002-00



599-806 NEW

Chevrolet 2002-00,
GMC 2002-00



599-343

Chevrolet 2005-03, GMC 2005-03,
Upgraded

SWITCHES - POWER WINDOW

Easy plug-and-play installation, no programming required

Fully remanufactured and tested for quality assurance

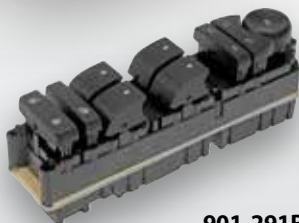
Failure Mode: Electrical and mechanical failure



901-299R

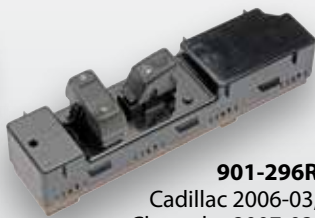
Chevrolet Trailblazer 2009-06,
Chevrolet Trailblazer EXT 2006

10 **OVER SKUS** AVAILABLE



901-291R

Chevrolet 2013-07,
GMC 2013-07



901-296R

Cadillac 2006-03,
Chevrolet 2007-03,
GMC 2007-03,
Hummer 2007-03



901-298R

Cadillac 2006-03,
Chevrolet 2006-03,
GMC 2006-03,
Hummer 2004-03



901-295R

Chevrolet Trailblazer 2004-02,
Chevrolet Trailblazer EXT 2004-0



CONVENIENCE

HVAC CONTROL MODULES

READY TO INSTALL: Plug and play design requires no programming

Fully Remanufactured and Tested
- Includes backlight replacement bulbs and O-Rings (where applicable)

Failure Mode: Burnt out bulbs, fan and temperature control failure



599-144

Buick Enclave 2012-08,
Chevrolet Traverse 2012-09

60 **OVER SKUS**
AVAILABLE



599-196

Chrysler 300 2010-06, Dodge Charger 2010-06,
Dodge Magnum 2008-06



599-226 NEW

Jeep Grand Cherokee 2004-02

RADIO CONTROL UNITS

EASY TO INSTALL: No programming required

DORMAN ENGINEERED: Upgraded with an auxiliary jack for easy connection to smart phones and MP3 players (where applicable)

DIRECT REPLACEMENT: Fit, form and function



586-005

Ford Taurus 2007-04,
Mercury Sable 2005-04



Failure Mode: Original bulbs burn out or electrical failure; Failure results in a dark display and improper radio functioning

7 **OVER SKUS**
AVAILABLE

ALSO AVAILABLE

586-012

Chrysler 2000-97,
Dodge 2002-97, Eagle 1997,
Jeep 2002-96, Jeep 1993,
Plymouth 2000-97

586-007

Ford 2005-98, Mazda 2003-99,
Mercury 2001-98

586-006

Ford Taurus 2003-01,
Mercury Sable 2003-01



586-025

Chrysler 2010-05, Dodge
2010-04, Jeep 2010-05,
Mitsubishi 2008-06



586-022

GM 2005-95, ISUZU 1999-98



DIESEL GLOW PLUG CONTROLLER

Glow plug controllers are vehicle simulator tested for durability and quality assurance

DORMAN ENGINEERED: Improved design allows diagnosis of individual glow plugs



Failure Mode: Failed circuit within the module

ALSO AVAILABLE

904-304

Dodge Sprinter 2500 2006-03,
Dodge Sprinter 3500 2006-03

904-282

Ford 2010-03, Ford 2001-00



904-310

Sprinter, Freightliner, Jeep,
Mercedes 3.0L Diesel 2015-05



341-5001

Detroit Diesel Series 60, 16,
15, 13 Engines 2015-87



599-5001

Cummins ISX 15.0,
Cummins ISM 10.8 2007-05



601-016 NEW

Grand Cherokee,
Ram, Dakota 2007-00

THROTTLE BODY MOTOR

Completely remanufactured and tested for durability and performance



Failure Mode: Throttle sticks or is non-responsive due to carbon build up

TURBO AIR CONTROL VALVE

Controls the pressurized air (60psi) going to the pneumatic turbo actuator which in turn controls the turbo boost pressure

100% replacement of seals and grommets with upgraded nylon designs



Failure Mode: Carbon build-up on the plunger

AUTO TRANS PRESSURE SENSOR TRANSDUCER

PLUG AND PLAY: Easy installation without the need for programming

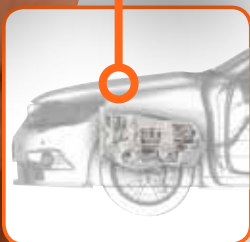
Failure Mode: Original internal sensor fails



POWERTRAIN & 4WD



917-030
BMW 2012-08



ECENTRIC SHAFT SENSOR

Detects angle of eccentric shaft

- Direct replacement for popular BMW application
- Housing material upgraded to prevent oil intrusion

Failure Mode: oil leaks into electronics. Failure results in vehicle misfire and illumination of check engine light



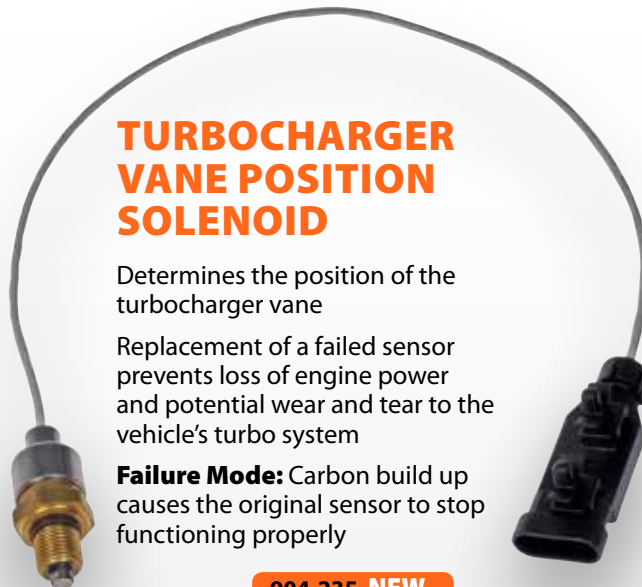
904-219
Ford 6.0L Diesel Engines
2010-03

TURBOCHARGER VANE POSITION SOLENOID

Determines the position of the turbocharger vane

Replacement of a failed sensor prevents loss of engine power and potential wear and tear to the vehicle's turbo system

Failure Mode: Carbon build up causes the original sensor to stop functioning properly



904-235 NEW

GM 6.6L Diesel Vehicles 2015-06

EGR VALVE

100% New, not remanufactured

PLUG AND PLAY:

No programming required

Failure Mode: Carbon build up causes piston to seize



TRANSFER CASE CONTROL MODULES

Fully remanufactured and vehicle simulator tested for quality assurance

REDUCE REPAIR COST: Dorman unit does not require programming, saving the time and money associated with a trip to the dealer

Completely remanufactured and tested



Failure Mode: Corrosion over time



599-112 NEW

Cadillac Escalade 2007,
Chevrolet Silverado 2007,
GMC Sierra, Yukon 2007



NEW 599-192

Chevrolet Silverado/Tahoe 2013-07,
GMC Sierra, Yukon 2014-07
with RPO Code NQH



NEW 599-250

Buick Rainier 2007-06,
Chevrolet Trailblazer 2009-06,
GMC Envoy 2009-06



599-114

Chevrolet 2007-03,
GMC 2007-03



601-005
Ford, Jaguar,
Mercury Sedans
2008-99

FUEL PUMP DRIVER MODULE

PLUG & PLAY: for easy installation

DORMAN ENGINEERED: Improved micro-processor to provide greater response time and reliability



Failure Mode: Loss of electrical connection



BODY CONTROL

BODY CONTROL MODULES

Fully remanufactured and tested for durability and quality assurance

100% replacement of fuses, relays, resistors, capacitors and soldering joints (where applicable)

Failure Mode: Original unit fails due to excessive heat, shock, movement or mechanical wear



502-009
Chevrolet Malibu 2005-04,
Pontiac G6 2005



502-007
Chevrolet 2007-03,
GMC 2007-03, Hummer 2007-06



502-001
Buick 2012-06,
Cadillac 2012-06,
Chevrolet 2012-06,
GMC 2012-07,
Pontiac 2009-07, Saturn 2010-07



502-008
Chevrolet 2007-03,
GMC 2007-03



502-000
Cadillac 2011-07,
Chevrolet 2011-07, GMC 2011-07

INTEGRATED CONTROL MODULES

ALSO KNOWN AS: TOTALLY INTEGRATED POWER MODULE (TIPM)

Fully remanufactured and vehicle simulator tested for quality assurance

Updated with the most recent programming available

No programming required

Failure Mode: Internal circuit failure causes erratic electrical problems in original unit



599-906
Dodge Caliber 2007,
Jeep Compass 2007,
Jeep Patriot 2007



599-900
Dodge Ram 2500 2007,
Dodge Ram 3500 2007

ALSO AVAILABLE

599-924
Dodge Ram 2500 2006,
Dodge Ram 3500 2006

599-914 NEW
Dodge Ram 2500 2009-08,
Dodge Ram 3500 2009-08

599-909
Chrysler PT Cruiser 2009-06

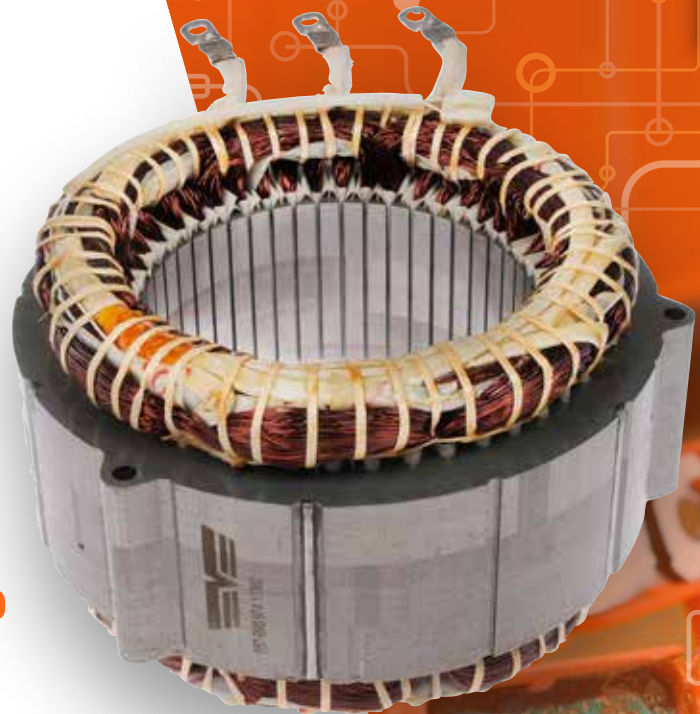
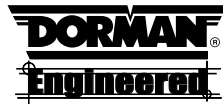


ELECTRIC MOTOR TRANSMISSION STATOR

Provides energy to help power the drive motor

REDUCE REPAIR COST: Replace just the failed stator instead of the entire assembly, saving up to 5 hours in labor costs.

Includes removable alignment studs to assist with installation.



Failure Mode: Vibration, friction, contamination and heat cause the original windings insulation to breakdown, short and burn out

NEW 587-990
Toyota Prius 2003-01



587-900
Toyota Prius 2003-01

ALSO AVAILABLE

587-901 NEW
Toyota Prius 2009-04

DRIVE MOTOR INVERTERS

Restores hybrid operation and drivability of vehicle

Replacement protects against potential damage to other hybrid system components

Fully remanufactured and vehicle tested for performance and quality assurance

Failure Mode: Failure results in reduced hybrid system performance, and illumination of check engine light

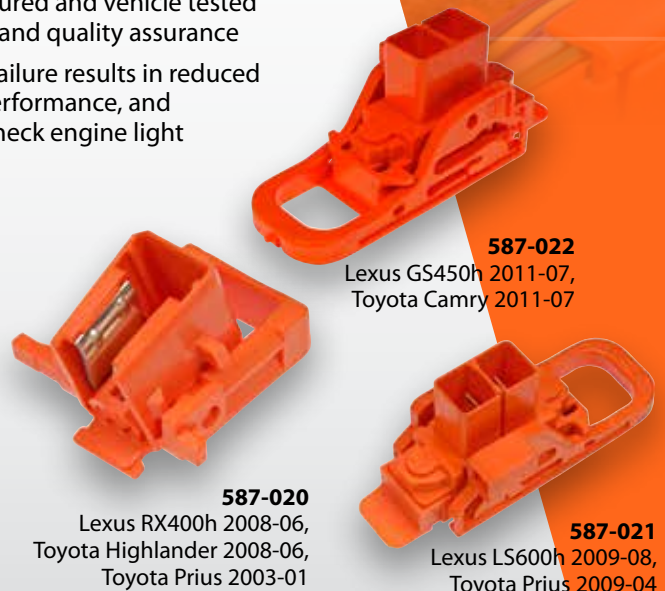


HYBRID BATTERY SERVICE PLUGS

Safety plug for hybrid drive batteries to ensure voltage is not transmitted when plug is removed

Compatible with Dorman's hybrid drive batteries

Failure Mode: Lost or blown fuse; Failure results in battery not functioning properly



587-022
Lexus GS450h 2011-07,
Toyota Camry 2011-07

587-020
Lexus RX400h 2008-06,
Toyota Highlander 2008-06,
Toyota Prius 2003-01

587-021
Lexus LS600h 2009-08,
Toyota Prius 2009-04



HYBRID

TOYOTA



587-001
Toyota Prius 2009-04



587-000
Toyota Prius 2001-03



587-002
Toyota Camry 2011-07



587-007 NEW
Lexus CT200h 2013-11,
Toyota Prius 2013-09,
Toyota Prius V 2013-12



HYBRID BATTERY PACKS

Ready to install direct replacements - no programming required

Includes modules (such as ECU) - no need to reuse from old battery

Completely remanufactured and tested

Each unit and individual cell is thoroughly tested and balanced to confirm optimal battery pack performance

DORMAN ENGINEERED: Toyota batteries bus bars are upgraded to nickel plating to reduce corrosion



11 SKUS AVAILABLE

DORMAN VS. OE



DORMAN
Nickel plating to reduce corrosion



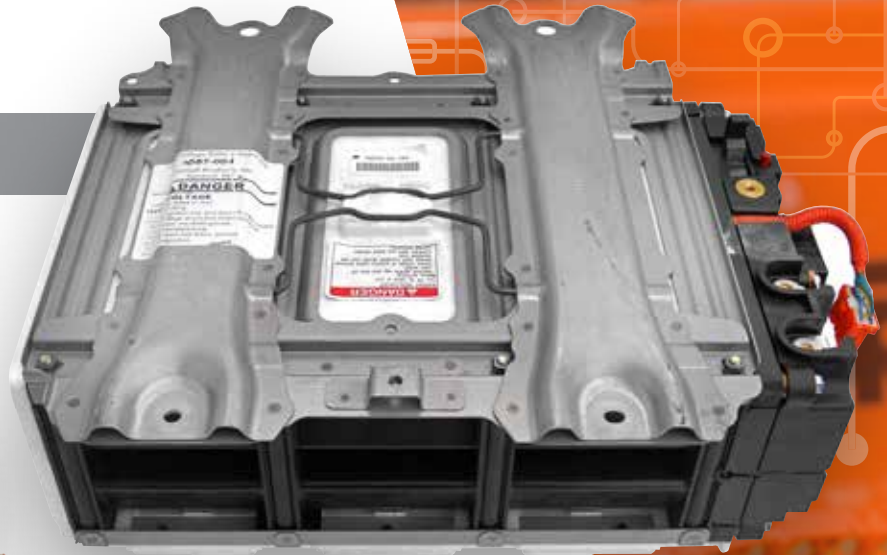
OE
Non-nickel plating prone to corrosion



HONDA



587-003
Honda Civic 2005-03



587-004
Honda Civic 2005-03



587-006
Honda Accord 2007-05



587-005
Honda Insight 2006-00



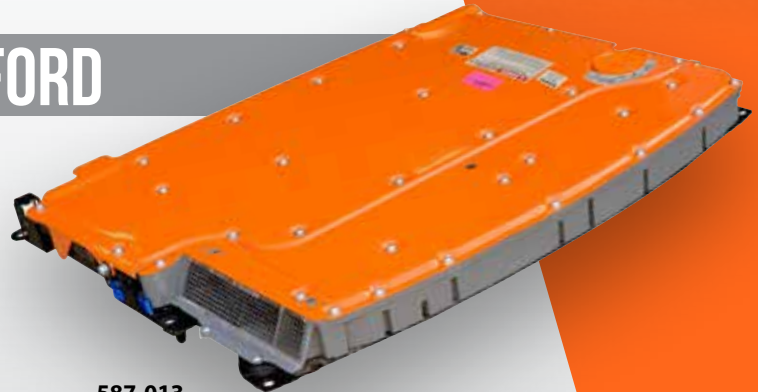
NEW 587-009
Honda Insight 2014-10,
CR-Z 2012-11

NISSAN



587-010
Nissan Altima 2011-07

FORD



587-013
Ford Escape 2009-05,
Mercury Mariner 2009-06

ALSO AVAILABLE FROM DORMAN



VVT SOLUTIONS

QUALITY • INNOVATION • VALUE



DORMAN LEADING VVT TECHNOLOGY SOLUTIONS

Comprehensive Coverage for both Variable Valve Timing Solenoids and Camshaft Phasers

High Quality Replacement Parts | Coverage for Import and Domestic Applications

VARIABLE VALVE TIMING SOLENOIDS

OVER 75 SKUS COVERING OVER 83 MILLION REPAIR OPPORTUNITIES

CAMSHAFT PHASERS

OVER 15 SKUS COVERING OVER 24 MILLION REPAIR OPPORTUNITIES



917-219
GM 2010-04



917-224
Acura 2006-02, Honda 2011-02

917-255
Buick 2004,
Chevrolet 2004-02,
GMC 2004-02, Isuzu 2004-03,
Oldsmobile 2004-02



917-257
Toyota Celica 2005-00, Corolla 2008-98,
Matrix 2008-03, MR2 Spyder 2005-00



ALL COMPONENTS UNDERGO EXTENSIVE TESTING TO ENSURE
QUALITY | PRECISION FIT | DURABILITY | PERFORMANCE



– BACKED BY DORMAN'S LIMITED LIFETIME WARRANTY –

DORMAN
NEW SINCE 1918

DOR75544-1

Learn more about replacement electrical parts on our website.