

# **About Us**

X8R Ltd is a British company completely dedicated to providing high quality improved design vehicle components. Correcting original manufacturers design faults or improving the lifespan of consumable vehicle components. We take the common faults associated with a variety of car manufacturers parts and re-design and manufacture parts that will not fail again or that will prevent future damage to vehicles.

# Instructions

Visit us at www.x8r.co.uk/instructions, choose your vehicle make, then click on the product you purchased for complete instructions in PDF or video format. If you should need any further guidance please do not hesitate to contact us, we are always happy to help.

Call us, E-Mail us or Live Chat with us on our website.









Please let us know if you have any feedback for us, good or bad.

Call, E- Mail or Live Chat with us, we are always happy to help.

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## BMW Swirl Flap Delete/Blanking Plugs

The Problem

#### Vehicles Affected

#### Our Solution





Swirl Flaps fitted within BMW diesel engines can deteriorate and affect vehicle performance or even enter the engine causing damage.



Most BMW vehicles with a diesel engine between 2000-2008. Check our website for more details.

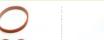




Install our Swirl Flap Blanks to prevent future engine damage.

# **BMW Intake Manifold Gasket Replacement Kit**

The Problem



It is recommended to change the intake manifold gaskets when blanking the swirl flaps.

Vehicles Affected







Most BMW vehicles with a diesel engine between 2000-2008. Check our website for more details. Install our high quality intake manifold gaskets. Available for 4 and 6 cylinder engines.

## **BMW Dual VANOS Seal Replacement Kit**

The Problem



The seals fitted within the VANOS unit wear prematurely causing loss of torque and power.

Vehicles Affected



BMW vehicles fitted with 6-cylinder engines M52TU, M56, and M54.

Our Solution



Our kit now includes more parts for an even better overhaul of your VANOS system. See website for the full range.

#### BMW Dual VANOS Gasket Replacement Kit

The Problem

It is recommended to change the cylinder head bolt seals, valve cover gasket, VANOS cylinder head gasket and the hose sealing washers when carrying out the dual VANOS seal and rattle ring repair.

Vehicles Affected



BMW vehicles fitted with 6-cylinder engines M52TU, M56, and M54.

**Our Solution** 



# BMW VANOS Solenoid Seal Replacement Kit

#### The Problem



The OEM O-ring seals fitted to the solenoids are made from a poor quality material not suited to the conditions. These wear and lead to the solenoids leaking.

#### Vehicles Affected



BMW vehicles fitted with N40, N42, N45, N46 engines.

#### Our Solution



Our improved material Viton O-Rings are far better suited and will cure the leaks.



## **BMW Transfer Case Gear Repair**

#### The Problem



Attached to the transfer case is an actuator motor, within which is a poor quality nylon gear. Over time, the nylon wears down and strips. This leads to the failue of the actuator unit.

# Vehicles Affected



X3 2003 - 2006 X5 2003 - 2013 X6 2005 - 2014

#### **Our Solution**



Fit our replacement gear made from a high quality plastic / Carbon Fibre mixture and restore the actuator.

## BMW Z3 Wing Mirror Base Spindle Repair

#### The Problem



The wing mirror bases on Z3 models tend to corrode or snap, spoiling the appearance of the mirror.

#### Vehicles Affected



Z3 E36 E37 E38 - 1994-2002 Roadster and Coupe

#### Our Solution



Install our improved design replacement glass fibre strengthened mirror spindle base unit and fix the mirror for the life of the vehicle.

## BMW DISA Valve Flap Repair Kit

#### The Problem



The original plastic DISA valve components wear and often snap. The pin retaining the flap can also work loose and enter the engine.

#### Vehicles Affected



M54 Engines 2.2 ltr & 2.5 ltr M54 Engines 3.0 ltr

#### Our Solution



Fit our improved design billet aluminium flap kit, designed to never fail again.

#### **BMW Auto Dimming Rear View Mirror Replacement**

#### The Problem



The glass cell within the rear view mirror fails, leading to a distorted view, a bubble in the centre or the cell can even leak damaging the interior of the vehicle.

# Vehicles Affected



E46 M3 2000-2006 E39 M5 1998-2003

#### Our Solution



Install our replacement glass cell and restore function for the lifetime of the vehicle.

#### BMW Z3 Seat Sub Frame Bushes

#### The Problem



The poor quality rubber bushes within the seat's sub frame tracks wear, perish or completely disintegrate and ultimately fail causing excess movement in the rails.

#### Vehicles Affected



All Z3 Roadster & Coupe Models E36 E37 E38 1994-2002 and Z3 M Models

#### **Our Solution**



Constructed from the proven material Delrin, our parts will not deteriorate like the OEM bushes and are designed to last the lifetime of the vehicle.



## Rubber Jacking Point Jack Pad Adaptor Tool For BMW Vehicles

The Problem



Lifting these vehicles without a jack pad can cause damage to the plastic jacking points.

#### Vehicles Affected



Please visit our website for the complete list of compatible car models and engines.

## Our Solution



Our high-quality rubber jacking pad inserts into the BMW jacking point preventing damage to the vehicle when lifting.

# BMW Replacement Cast Iron Exhaust Manifold For Diesel Engines

The Problem



It is very common for the stainless steel exhaust manifold to crack causing exhaust gases to leak.

#### Vehicles Affected



Please visit our website for the complete list of compatible car models and engines.

#### Our Solution



Install our improved design manifold for a fraction of the price of the OEM part which would just fail again.

# BMW E46 M3 Exhaust Flange Muffler Back Box Repair Kit

The Problem



The OEM cast iron flanges rust / corrode and eventually split causing exhaust leaks.

# Vehicles Affected



BMW 3 Series E46 M3 07/1999 — 08/2006 All models: Convertible, Coupe, CSL

#### Our Solution



Install our high quality stainless steel flange clamps, which very simply attach in situ, curing vehicle faults and will last the life of the vehicle.

#### BMW N47 Swirl Flap Delete Kit

The Problem



Carbon build up in the manifold leads to vehicle faults. This could potentially cause complete engine failure.

#### Vehicles Affected



BMW N47 Engines
Please see website for list
of affected vehicles.

#### Our Solution



Remove the swirl flap rod and blank it off using our bung.

# BMW EGR Delete For Anti-Shudder Valve Applications

The Problem



Carbon rich recirculated exhaust gasses leave deposits within the EGR valve which restrict or damage the EGR valve causing vehicle faults.

#### Vehicles Affected



BMW engines: M47N2, M57N2. Models include: E87, E90, E91, E92, E93 E60, E60 LCI, E61, E61 LCI E65, E66, E83, E83 LCI, E70, E71. See website for full listing guide.

#### Our Solution



Our kit allows easy replacement of the EGR valve with our improved design, which stops any recirculated exhaust gases entering the intake manifold.



## Hitachi Air Suspension Compressor Repair Kit

The Problem

Vehicles Affected

**Our Solution** 



The piston seals within the vehicle's EAS air compressor wear, filters saturate and the dryer end cap can leak reducing output significantly leading to EAS faults.



Discovery 3 2005-2009 Discovery 4 2010-2012 Range Rover Sport 2005-2013, Range Rover L322 2006-2009



Fit our improved design dryer end cap, piston seals and filter kit. Restore your compressor to full health. There is rarely cause to replace the compressor.

## Range Rover P38 Dunlop EAS Air Compressor/Valve Block Repair Kit

The Problem

Vehicles Affected

Our Solution



The piston seal and liner within the vehicle's EAS air compressor wear and the filters saturate reducing output.

The diaphragm seal and O-rings within the vehicles EAS valve block system can also fail.

LAND --ROVER

Range Rover Classic 1993 - 1996 Range Rover P38 1994 - 2002 Many Citroen and LDV models



Fit our improved design piston seal, piston liner, filters, valve block O-rings and diaphragm kit to restore the EAS system to full health.

# Land Rover TD5 Bosch Fuel Pressure Regulator Replacement Kit blem Vehicles Affected Our S

The Problem



Discovery TD5 1998 - 2004
Defender TD5 1998 - 2007
Our kit is compatible with both early and late type fuel pressure regulator blocks, 2 pipe and 3 pipe. Type A Non EU3 models and Type B EU3 models

Our Solution



Our kit allows replacement of just the fuel pressure regulator, curing the leak.

#### Land Rover TD5 Starter Motor Repair Kit

The Problem

A diaphragm within the fuel pressure

regulator fails causing fuel leaks.

Vehicles Affected

Our Solution



Worn contacts and a worn plunger assembly within the solenoid housing causes failure of the starter motor.



Discovery 2 1998 - 2004

Defender 90/100 1998 - 2006



Install our replacement solenoid contact points and plunger to restore the starter motor.

# Land Rover / Range Rover Door Lock Repair

The Problem







A small spring snaps within the door lock actuator of these Land Rovers making the doors tough to open.



Discovery 1 1989-1998

Range Rover Classic 1970-1996



Install our door lock spring and restore the door lock to normal operation, permanently.

# TDV6 EGR Blanking Kit

#### The Problem



Over time, carbon / coke deposits gather in the EGR valve and manifold, blocking air flow, resulting in reduced fuel economy and vehicle performance.

Vehicles Affected



RANGE ROVER JAGUAR



Land Rover Discovery 3 [2004-2009]

Range Rover Sport [2005-2013]

Jaguar S-Type [1999-2007]

#### Our Solution



Install our blanking kit and let the engine breathe.

#### The Problem



Vehicles fitted with air suspension can often develop suspension faults due to a worn compressor.

#### Vehicles Affected











Many vehicles can suffer this fault. Check our website for all repair kits.

#### Our Solution



Install our compressor repair kit and restore the compressor to full health.

#### Mercedes Benz PSE Central Locking Pump Motor Repair Kit

#### The Problem



A graphite impeller within the vacuum pump fails, causing vehicle faults.

# Vehicles Affected



Mercedes Benz SL-Class (R230) 01-11 Mercedes Benz S-Class (W220) 98-05 Mercedes Benz CL-Class (C215) 99-06 See website for full vehicle list.

# Our Solution





Install our replacement graphite impeller wheel and new fins to get your pump back to full working order, at a fraction of the cost.

# Mercedes Benz Vito Gear Stick Bush Repair Kit

#### The Problem



A bush within the gear stick assembly wears causing shifting issues, and sloppy gear changes.

# Vehicles Affected



Mercedes Benz Vito/Viano W639 (03-14) Mercedes Benz V-Class V350 (Japan only) Mercedes Benz Valente (Australia) (12-14) 5 and 6 speed manual gearboxes only.

#### Our Solution



Install our new improved design bush and restore sharp gear changes

# Mercedes Benz OM642 V6 Diesel Swirl Flap Rod Repair

#### The Problem



The swirl flap rod on the engine's intake manifolds can wear prematurely, causing vehicle faults.

# Vehicles Affected



Mercedes Benz V6 OM642 Diesel Engine Please check website for vehicle listing and ways to check compatibility.

#### **Our Solution**



Install our replacement aluminium rod kit and restore your manifold to full health. Available as single or twin kit.



# Mercedes Benz Centre Console Command Controller Rotary Switch Repair Kit

#### The Problem



Knob rotating but no response on monitor. Knob works up-down-left-right but no rotation. When the wheel is turned no reaction on screen shown.

#### Vehicles Affected



Mercedes-Benz C-Class W204, C204, S204 CLA-Class C117, X117 E-Class W212, S212, A207, C207 CLS-Class S218, X218 GLK-Class X204, X218 SLK-Class R172

#### Our Solution



Restore full function with our replacement metal shaft. Our shaft is CNC machined from billet aluminium then anodised.

## Mercedes Benz Keyless Go Replacement Rubber Buttons

#### The Problem



It is common for the Keyless Go door handle rubber button to wear spoiling the look of the door handle.

#### Vehicles Affected



Mercedes-Benz

Please visit our website for a full list of affected vehicles.

# Our Solution





Our repair kit allows you to replace just the rubber part that fails with our improved material part.

## Mercedes Benz ABC Suspension Repair Kit

#### The Problem



The valve block seals fail, leading to leaks and the corners of the vehicle sagging.

# Vehicles Affected



Mercedes Benz C215 CL, C216 CL, R230 SL W220 S, W221 S

Please see website for full list of affected vehicles.

#### Our Solution



Our complete overhaul kit includes all

components required to restore the valve block. Our kit is for one valve block.

#### Mercedes Benz Intake Manifold Air Flap Runner Lever Replacement Kit

#### The Problem



A plastic lever on the intake manifold snaps, which leads to malfunction of the tumble / swirl flaps, leading to vehicle faults

# Vehicles Affected



Mercedes Benz V6 M272 and V8 M273

For a comprehensive list, please check our website.

# Our Solution



Install our metal replacement lever and restore full function to the intake manifold and avoid the cost of a complete new manifold. An improved design part, which won't fail again.

# Mercedes Benz Door Lock Actuator Spring Replacement Kit

#### The Problem



A small spring snaps within the door lock actuator making doors difficult to open and causing the door lock pin to jump up and down.

# Vehicles Affected



Mercedes M ML W163 Mercedes C E CLK W203 W211 W209 Mercedes A B R W169 W245 W251

# Our Solution



Install our door lock spring and restore the door lock to normal operation, permanently.



# Delphi Air Conditioning Compressor Repair Kit Vehicles Affected

#### The Problem







**Our Solution** 



It is a common fault on these air conditioning compressors for the bolt on the shear plate to loosen, causing the splines within the shear plate to wear leading to loss of air conditioning.

The Problem



Please ensure compatibility before purchase. Our kit will repair only Delphi compressors with these part numbers:

5N0820803, 5N0820803A, 5N0820803E, 5K0820803A





Fit our replacement shear plate and bolts and restore your air conditioning compressor to full output.

## 2.0 TFSI PCV Delete Kit

#### Vehicles Affected









Our Solution

Poor MPG, rough idle, boost loss, check engine light, sluggish performance, significant power losses, poor drivability. Oil in the engine bay, PCV pipe work leaking, boost / vac leaks.

Compatible with timing belt-driven EA113 2.0 TFSI engines.

Install our PCV delete unit and restore performance to your vehicle, removing the poor-quality component that commonly fails.

# VW Glove Box Magnet Kit

# The Problem



The glove box lid won't close or latch shut. Alternatively the lid may only latch on one corner or keep dropping down.

# Vehicles Affected



2000-2004 VW Golf MK 4 1J 1999-2010 New Beetle 2000-2006 VW Jetta / Bora A4 1J

#### **Our Solution**



Install our magnetic latch repair kit and resolve this issue.

#### 2.0 TFSI Inlet Intake Manifold Runner Flap Delete Kit

#### The Problem



If the runner flaps are operating correctly there will likely be no symptoms of a fault. The benefits will only be realised when the runners are removed; improving airflow. If the runners are faulty or carbon build up has formed, this can affect vehicle performance

# Vehicles Affected







2.0 Ltr TFSI EA113 engines.

#### Our Solution



Remove the runner flaps using our kit to improve airflow through the inlet manifold. Customers with tuned engines have noted quicker throttle response, less turbo lag, improved torque and BHP gains when deleting the runner flaps.

# VW Interior Door Grab Pull Metal Handle Replacement Set

#### The Problem



It is common for the internal door handles to crack / snap on VW Beetle models.

#### Vehicles Affected



VW Beetle 1998-2010





Cure this fault permanently with our replacement metal handles at a fraction of the price of a complete interior door.



# 2.0TDI Inlet Manifold P2015 Error Flap Bracket For Aluminium Manifold

#### The Problem



P2015 error caused by over rotation of the actuator motor on the intake manifold.

# Vehicles Affected



Audi

VAG 2.0 TDI four-cylinder common rail engines 2008 - 2014 with aluminium manifold. Not suitable for V6 TDI or 2.0 Petrol Turbo engines. Part number 03L129711E with V157 or V120 actuator motor only.

#### Our Solution



Fit our unique design bracket and cure this over rotation with a hard stop, curing this fault for the life of the vehicle.

# 2.0TDI Inlet Manifold P2015 Error Flap Bracket For Plastic Manifold

#### The Problem



P2015 error caused by over rotation of the actuator motor on the intake manifold.

#### Vehicles Affected



Audi

VAG 2.0 TDI four-cylinder common rail engines 2008 - 2014 with aluminium manifold. Not suitable for V6 TDI or 2.0 Petrol Turbo engines. Part number 03L129711AG with V157 or V120 actuator motor only.

#### Our Solution



ITA

Fit our unique design bracket and cure this over rotation with a hard stop, curing this fault for the life of the vehicle.

# Throttle Body Repair Kit

#### The Problem



The poor-quality gears within the throttle body wear, affecting valve function and causes vehicle faults.

#### Vehicles Affected









See website for full list of vehicles

#### Our Solution



Install our replacement carbon fibre reinforced gears to restore the full function of your car's throttle body. Kit includes a replacement sealing gasket.

# Glove Box Hinge Bracket Repair Kit

#### The Problem



The hinges on the glove box lid are prone to snapping, rendering the glove box unusable.

# Vehicles Affected

A4 B6 2002 - 2005 RS4 B7 2006 - 2008 S4 B6 2003 - Dec. 2004 S4 B7 2004 - June 2008

NOT compatible with convertible models.

SEAT EXEO/ST 3R5 2009 - 2014

#### Our Solution



Install our hinge brackets and restore the glovebox to full operation. .

#### VW Transporter Door And Dash Trim Combo

#### The Problem



Doors feel tinny and cheap when closing, excess road and wind noise. Always losing items such as pens and coins down the gap between your dash and windscreen.

#### Vehicles Affected



VW Transporter T5 Models 2003-2015. T5.1 Models 2010-2015. T6 Models 2015-Present

#### Our Solution





Fit our 3M backed trim around the doors to improve the feel when closing. Install our gap filler mod between screen and dash to prevent items getting lost.



# Spare Wheel Holder Mechanism Lift Repair Kit

#### The Problem

# Vehicles Affected

## Our Solution





A plastic gear breaks within the spare wheel carrier mechanism causing malfunction of the mechanism.



VW Sharan 1996-2010



Seat Alhambra 1996-2010



Ford Galaxy 1995-2010



Fit our CNC machined billet aluminium gear and restore full function to the spare wheel carrier mechanism.

## Ford Bonnet Release Cable Repair

#### The Problem

#### Vehicles Affected

#### Our Solution



The OEM bonnet release cable on these vehicles features a galvanised steel inner cable, this rusts and snaps, preventing release of the bonnet.



Ford Mondeo mk4 2007-2014 Ford S-Max mk1 2006-2015 Ford Galaxy mk3 2006-2015



Our stainless-steel cable will not deteriorate like the original and is soldered/brazes for easy install.

# Ford Handbrake Cable Repair Kit

#### The Problem



A cable in the handbrake mechanism wears and snaps, meaning the handbrake cannot be released

#### Vehicles Affected



Ford S-Max mk1 2006-2015 Ford Galaxy mk3 2006-2015

#### Our Solution



Our stainless steel cable can be installed to repair the release function. No need to replace the whole release mechanism.

# Ford Replacement Seat Tilt Handles Vehicles Affected

#### The Problem





Ford Fiesta Mk6 2002-2008 Passenger side part number: 1417521 Driver side part number: 1417520

#### Our Solution



Buy as a pair or as individual sides and restore the tilting function of your seats.

#### The seat tilting pull handle has broken after years of use and now the seat will not tilt forwards

#### **EGR Delete Kit**

#### Vehicles Affected



The Problem

Carbon rich recirculated exhaust gasses leave deposits, which can restrict/damage the EGR valve, causing vehicle faults.



Ford Mondeo 2.0, 2.2 TDCi Ford "Puma" engines codes: ZSD-420, ZSD-422 Jaguar X Type 2.0d, 2.2d No DPF engine only

#### **Our Solution**



Our kit allows easy replacement of the EGR valve with our improved design part, which stops any recirculated exhaust gases entering the intake manifold.



# Renault Windscreen Wiper Arm Bearing Kit

The Problem



**Our Solution** 





The OEM bearings within the wiper arms fail, resulting in the windscreen wiper not clearing the screen correctly.



#### RENAULT

Scenic mk2 2003-2009

Grand Scenic mk2 2004-2009





Replace the bearings with our high quality ABEC9 bearings and restore full function to the wipers.

# Renault Boot Button Replacement Kit

The Problem



The O-ring which retains the boot button wears and the button falls out. making it difficult to access the boot.

Vehicles Affected



Mégane mk1 1995-2002 Scénic mk1 1996-2003

Our Solution



Fit our improved design boot button and regain the use of the boot. Designed to never be lost again.

#### Renault Clutch Pedal Linkage Rod Replacement Kit

The Problem



The connecting rod from the clutch pedal wears and pops off of its ball joint, causing vehicle faults.

Vehicles Affected



Clio Mk 2 1998-2005 Clio Campus 2006 - 2012 Twingo MK 2 2007-2014 Kangoo MK 1 1997-2007

**Our Solution** 



Fit our improved design linkage rod and repair the fault permanently at a vast saving compared to a complete new clutch pedal assembly.

#### Renault Steering Wheel Rubber Replacement Thumb Grips

The Problem







Clio mk2 Renault Sport RS 182 2004 - 2006

Our Solution



Fit our replacement thumb grips and improve the look of the steering wheel instantly.

# Citroen Glove Box Handle Replacement Kit

The Problem

The rubber steering wheel thumb grips

wear / melt ruining the look and feel of

the steering wheel.

Vehicles Affected





It is common for the glove box lid handle to snap.



C4 models between 2004-2010





Fit our stainless steel or carbon reinforced black plastic replacement handle.



# 3pc Gear Linkage Push Rods Kit

The Problem



**Our Solution** 



The poor quality OEM gear linkage rods deteriorate affecting gear changes and, in time, pop off leading to loss of gear selection.





Citroen Saxo 1996-2003 Peugeot 106 1991-2003 Inc. VTS, VTR, GTI and Rallye. All petrol and diesel engines.



Fit our improved design gear linkage rods and restore smooth gear selection. permanently.

# Vauxhall Gear Linkage Repair Kit

The Problem



It is common on these vehicles that a poor-quality plastic linkage on the gear selector linkage mechanism pops off causing vehicle gear shift faults.

Vehicles Affected



Corsa C 2000 - 2009 Meriva 2003 - 2010 TwinTop 2004- 2009 Corsavan 2000 - 2007 Combo 2001 - 2011

Our Solution



Our improved design metal push rod arm with metal ball joints very easily replaces the failed plastic part, restoring gear function for the life of the vehicle.

## Vauxhall Manual F23 Gearbox Gear Stick Bush Repair Kit

The Problem



The nylon bush within the gear shift mechanism wears over time, causing excess movement and gear shift faults.

Vehicles Affected



ASTRA MK2 G - (1998-2009) ASTRA MK3 H - (2004-2013) COMBO C - (2001-2011) MERIVA I 1 - (2002-2009) VECTRA B C - (1999-2008) ZAFIRA A - (1998-2005) All petrol engines and the diesel engines: 1.7, 2.0, 2.2. Our Solution



Fit our replacement gear shift bush and eliminate the excess play in the gear shifter unit.

# Vauxhall Replacement Wing Mirror Covers

The Problem





Vauxhall Astra H 2004-2013 See website for model variants. Not for power mirrors.

Our Solution



OEM look and easy to fit. Available as singles or as a pair.

# Vauxhall Parcel Shelf Winglet Flap Motor Gear Replacement

The Problem

Lower mirror cover section gets damaged

or lost and it cannot be purchased

separately.



The plastic gear within the parcel shelf winglet motor wears and strips causing roof operation faults.

Vehicles Affected



Vauxhall / Opel / Holden Astra Twin Top 2006-2010

Our Solution



Install our precision engineered CNC brass gear and restore twin top roof operation.



# Complete Wiper Rod Replacement Kits

#### The Problem

#### Vehicles Affected

**Our Solution** 



The poor quality plastic bearings on the wiper linkage rods wear and the wiper push rods pop off of their respective ball joint.





Fiat Punto MK2 1999 - 2006 Nissan Micra K12 2003 - 2010 Nissan Oashgai 2007 - 2015 Vauxhall Vectra C & Signum 2005 - 2009



Install our improved replacement wiper rods and restore your vehicle's wipers.

#### The Problem



Rear bumper scratched, dented or damaged. Slippery when wet.

# **Bumper Protector** Vehicles Affected



Nissan Primastar 2001-2014

Renault Trafic 2001-2014

# Our Solution



Install our hard wearing, high traction bumper protector and restore the look of the bumper.

#### The Problem



The gear selector cable bush end wears and pops off of the ball joint on the gear box, leading to the loss of all gear selection.

# Gear Linkage Cable Clamp Vehicles Affected



Vauxhall Vivaro 2001- onwards Nissan Primastar

2001- onwards



Renault Trafic 2001- onwards

#### **Our Solution**



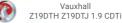
Fit our clamp on to the bush end and tightly secure the cable to the ball joint for life. A vast improvement over OEM.

#### The Problem



The bearing bushes on the swirl flap operating rod wear and the rod pops off, causing vehicle faults.

#### Vehicles Affected







1.9 JTDM JTD MULTIJET

#### Our Solution



Replace the operating rod with our improved design rod fitted with brass bearing bushes, designed not to pop off again, saving the cost of a new manifold.

## Pierburg Inlet Manifold Swirl Flap Blanking Plugs

#### The Problem



On occasion, the ball joints attached to the swirl flaps can wear so excessively that a replacement rod will not cure this.

# Vehicles Affected

Vauxhall Z19DTH Z19DTJ 1.9 CDTi Saab Z19DTH Z19DTJ 1.9 TiD

Alfa Romeo 1.9 JTDM JTD MULTIJET

Fiat 1.9 JTDM JTD MULTIJET

#### **Our Solution**











Remove the swirl flaps from the inlet manifold and blank off using our kit; eliminate swirl flap faults without having to buy a complete new intake manifold.

# Nissan Tailgate Handle Repair Clips

#### The Problem



The small plastic clips moulded on the inside of the tailgate handle snap, causing the handle to become loose, making it difficult to open the boot.

# Vehicles Affected



Nissan Qashqai (2006 - 2013) Nissan Qashqai +2 (2008 - 2013) Nissan Dualis (Japan / Australia)

#### **Our Solution**



Install our replacement clips and reuse your existing handle, saving the cost and need to colour code a new handle which would only fail again.

#### Alfa Romeo Multi Function Steering Wheel Audio Rubber Buttons

#### The Problem





The steering wheel audio control buttons wear ruining the look of the steering wheel and the interior of the vehicle.

#### Vehicles Affected



147 All Models 156 2003-2006 166 2003-2006 GT All Models

#### Our Solution





Fit our replacement rubber buttons and restore the look and feel of the multi-function steering wheel. Save the cost of a whole button unit, which would just fail again.

# Saab 9-3 Sport Stiff Gear Tower Turret Repair kit

#### The Problem



Stiff gear changes on these vehicles are the result of a worn pivot point on the gear turret. This is caused by a poor quality nylon bearing bush.

# Vehicles Affected



Saab 9-3 Sport 2002 onwards (6 speed manual)

#### Our Solution



Fit our improved design pivot screw and PTFE bush bearing and cure gear change issues

#### **Boot Button Cover Replacement**

#### The Problem



It is common for the boot / trunk rubber button to deteriorate on these vehicles.

#### Vehicles Affected



Check website for vehicle listings.

#### Our Solution



Install our replacement rubber button to save the cost of a complete new unit.

#### Honda Bonnet Release Handle Replacement Kit

#### The Problem



Bonnet release plastic handle snapped off. Cracked or damaged. Inability to open vehicles bonnet. Release handle broken off or missing.

#### Vehicles Affected



# Civic 1996- 2000.

Civic 2001-2005 HR-V 1999-2006 CR-V 1997-2006 Flement 2003-2011 Ridgeline 2006-2014

#### **Our Solution**



Fit our high-quality metal handle and restore your bonnet release mechanism instantly.



## Wiper Linkage Repair Clips

Vehicles Affected

**Our Solution** 



The poor quality plastic rod ends wear quickly and the wiper push rods pop off of their respective ball joint.

This clip set is a universal fit. Our clip will fit all linkages with a ball joint of 14mm in diameter or less with a 9.5mm or less recess below the ball for the linkage to operate.



Fit our precision made wiper linkage clip to the worn linkage and stop your linkage popping off, restoring your wipers to full health at an unbeatable price.

## Bosch Common Rail CP1 Diesel High Pressure Pump Seals Kit

#### The Problem



It is a common fault for the seals, gaskets and o-rings to deteriorate within the CP1 fuel pump leading to leaks around the pump.

#### Vehicles Affected

The Bosch Common Rail CP1
Fuel Pump has been used in a
wide range of cars.
Please visit our website and
check out our list of compatible
vehicles and part numbers.



Our Solution

Our repair kit includes the replacement seals for those that commonly fail within the CP1 fuel pump.

# Bee Sting Aerial Antenna Base Seal Replacement

#### The Problem



The OEM seal on the base of the aerial of many vehicles is made from a poor quality rubber which deteriorates over time, causing the seal to crack, discolour and perish.

#### Vehicles Affected

This item is a universal item and will fit many vehicles. The gasket is oval in shape; with external dimensions of 60mm by 43mm approximately. Internally 50mm by 40mm. Please measure your existing base before ordering to ensure suitability.

#### Our Solution



Our item allows you to replace just the seal that fails without the need to replace the whole antenna base at vast expense from the vehicle manufacturer, saving money and time.

# Wind Deflector Replacement Clips

#### The Problem

#### Vehicles Affected

#### Our Solution



If your deflector retaining clips are lost or damaged this can affect the fitment of your deflectors.

Our clips will fit Heko and other aftermarket brand wind deflectors. Available in packs of 4, 6, 8 and 12.



Install our clips and improve the fit of your wind deflectors. Our clips will ensure the deflectors stay in place securely when the glass is down.

#### Slit Sill Jacking Pad Rubber Tool

#### The Problem



Lifting vehicles without a jack pad can cause damage to the lifting points.

#### Vehicles Affected

This will be suitable for many applications but its best to check the sizes for compatibility before purchase.

Total Pad Height: 24mm Total Pad Diameter: 62mm Jacking Groove: L62mm, W8.5mm, H8.5mm

#### Our Solution



Our high-quality rubber jacking pad fits around the jacking point preventing damage to the vehicle when lifting.

# **NOTES**





Website : www.x8r.co.u

Email : sales@x8r.co.uk

Telephone : (+44) 01843 446643

Facebook : https://www.facebook.com/x8rltc

Twitter https://twitter.com/x8rlimited

Instagram: https://www.instagram.com/x8rlimited