

26 PIECE RADIATOR PRESSURE AND COOLING SYSTEM TESTER



Information

- Allows easy testing for leakage in radiator system and quick change of coolant
- Unit is suitable for domestic and commercial vehicles
- Colour coded radiator test caps make it easy to choose the suitable test cap for the job
- Special design of vacuum purge & refill tool connection fits nearly all type of radiator opening
- Test Range 0-35 psi (0-2.5 bar)

Precautions

Always wear safety gear.
Working in a clean and safe environment.
This task should be carried out by trained personnel.
Make sure to consult manufacturers manual.
Do NOT use with air tools.

Instructions

Instructions - Leakage test

Step 1

Remove the original radiator cap from the expansion tank or radiator

Step 2

Now you must select the appropriate adapter from the kit - applications on the previous page

Step 3

Attach the hand pump to the adapter

Step 4

Work the hand pump until a pressure of 10 to 15psi has been reached, Do NOT exceed 35 psi

Step 5

If you now check the pressure gauge and the value shown has decrease there is a leakage in the cooling system

Instructions - Leakage test of the radiator cap

Step 1

Remove the original cap

Step 2


Select the appropriate joint from the kit (Part 6 or 7) then connect it to the radiator cap


Step 3


Work the pump a couple of times if the pressure indicated on the gauge has fallen the cap is leaking and must be replaced




		Thermometer
		Testpumpe mit Druckuhr / Test Pump with Gauge
		R123/R124Verbinder/Connector(schwarz/black)
		R123/R125Verbinder/Connector(blau/blue)
	Buick	(LeSabre:90-)(ParkAvenue:91-)
	Chrysler	(Sebring:95-)
	Chevrolet	(Venture:97-)
	Dodge	(Caravan:89-)(Dakota:89-)(Startus:95-)
	Jeep	
	Mercedes	(W123,W124,W126,W201)
	Oldsmobile	(Silhouette:90-)
	Pontiac	(Sonneville:93-)(GrandPrix:2003)
	Acura	(Integra:91-93)(Legend:89-90) (NSX:95-2004)(SLX:97)(Vigor:92-94)
	BMW	(M6:2008)
	Chevrolet	(Nova:85-98)(Spectrum:85-88)(Sprint:86-88)
	Chrysler	(Laser:91-98)(Sebring:96-98)
	Dodge	(Avenger:95-99)(Colt:84-91) (Ram50:89-92)(Stealth:93-96)
	Eagle	(Summit:89)(Talon:91-98)
	Ford	(Aspire:94-97)(Escort:91-2002) (Expedition:2009-2011)(Explorer:95-2001) (ExplorerSportTrac:2001-2005)(F-150:2009-2011) (Festiva:89-93)(Mustang:97-2004) (Probe:89-97)(Ranger:95-2011) (Tempo:92-94)(Thunderbird:92-95) (Windstar:96-99)
	Geo	(Metro:89-93)(Prizm:89-91) (Spectrum:89)(Storm:90-93) (Tracker:89)
	GM	(Nova,Spectrum,Sprint)
	Honda	(Accord:90-93)(Civic:88-91) (CRX:89-90)(Motorcycles:91-2004) (Passport:94-2002)(Prelude:90-98) (Accord:95-2010)(Azera:2006-2010) (Elantra:92-2011)(Entourage:2007-2008) (Excel:86-94)(Genesis:2009-2010) (GenesisCoupe:2010)(SantaFe:2002-2010) (Scoupe:94)(Sonata:89-2011) (Tiburon:98-2008)(Tuscon:2005-2010) (Veracruz:2007-2010)(XG350:2004)
	Infiniti	(FX35:2003-2007)(G20:91-2002)(G35:2004-2007) (I30:97-2000)(I35:2002-2004)(J30:96) (M30:90-92)(M35:2006-2009)(M45:2003-2010) (Q45:90-2006)(QX4:98-2003)
	Isuzu	(Amigo:89-2000)(Axiom:2002-2004) (I-Mark:85-89)(Impulse:85-92) (Rodeo:91-98)(Stylus:91-92) (Trooper:86-2002)(VehiCROSS:99)

	Acura	(CL:97-2002)(Integra:94-2000) (Legend:93-95)(MDX:2001-2001) (RX:2009-2012)(RL:96-2010)(RSX:2002-2005) (TL:96-2011)(TSX:2007-2012)
	Chevrolet	(Metro:99-2000)(Prizm:98-2002)(Tracker:98-2004)
	Chrysler	(Sebring:2001)
	Dodge	(Colt:93-94)(Stratus:2001-2004)
	Eagle	(Summit:92-96)
	Geo	(Metro:95-97)(Prizm:93-97)(Tracker:97)
	Honda	(Accord:94-2011)(Civic:92-2010)(CivicSol:93-97) (CR-V:97-2010)(CR-Z:2001) (Element:2003-2010)(Fit:2008-2009)(Insight:2001-2011) (Odyssey:98-2010)(Pilot:2003-2011) (Prelude:99-2001)(Ridgeline:2007-2011) (S2000:2006-2009)
	Isuzu	(Oasis:97)(Rodeo:99-2000)(RodeoSport:2003)
	Lexus	(ES250:90-91)(ES350:2008-2012) (GS300:93-2003)(GS350:2007-2009) (GS430:2004-2007) (GX470:2004-2005)(LS300:2003)(LS350:2009-2012) (LS430:2001-2003)(LX570:2011-2013) (RX300:99-2006)(RX350:2008-2010) (RX400h:2006-2008)(SC300:92-2010)
	Mazda	(Mazda2:2011)(Mazda5:2008-2010)(Protege:95-2003)
	Mercedes	(ML-class,W163,W164)
	Mitsubishi	(Diamante:96-2004)(Eclipse:2000-2010) (Endeavor:2006-2011)(Expo:92-95) (ExpLRV:92-94)(Galant:94-2011) (Mirage:93-2002)(MonteroSport:97-2003)
	Plymouth	(Colt:92-94)
	Pontiac	(Vibe:2003-2010)
	Scion	(FR-S:2013)(Q:2012)(C:2005-2010)(xA:2006)
	Subaru	(B9Tribeca:2006-2007)(Tribeca:2008-2010)
	Suzuki	(Aerio:2003-2007)(Esteem:95-2002) (Sidekick:91-98)(Swift:99-2001) (SX4:2007-2009)(Vitara:99-2003)(X-90:96-98) (XL-7:2002-2003)
	Toyota	(4Runner:89-2011)(Avalon:2005-2010) (Camry:90-91V6w/aut.trans.) (Camry:92-2011)(Celica:90-99) (Corolla:93-2012)(Echo:2001-2005) (FCruiser:2007-2010) (Highlander:2001-2011)(LandCruiser:2009) (Matrix:2003-2011) (Passo:92-98)(Prius:2001-2009) (RAV4:96-2003)(Sequoia:2001-2011) (Sienna:2007-2011)(Supra:90-98) (Tacoma:2005-2011)(Tercel:91-98) (Tundra:2000-2011)(Venza:2009-2011)(Yaris:2008-2011) (Touareg:2004)
	VW	

	Kia	(Amanti:2006-2009)(Borrego:2009)(Forte:2011) (Optima:2002-2010)(Rio:2002-2011) (Rio5:2009-2011)(Rondo:2009-2010)(Sedona:2003-2011) (Sephia:94-2001)(Sorento:2003-2011) (Soul:2010-2011)(Spectra:2000-2009) (Spectra5:2005-2009)(Sportage:95-2011)	
	Lexus	(ES300:96-2003)(ES330:2005)(LS400:92) (LX450:96-99)(LX470:98-2005)(SC400:92)	
	Lincoln	(Navigator:2009-2011)	
	Mazda	(323:86-93)(626:85-99)(929:90-93) (B2000:96-97)(B2200:98-99)(B2300:2005) (B2500:96-2000)(B2600:87-93) (B3000:96-2007)(B4000:95-2006) (CX-9:2007-2010)(Mazda:91-2005) (Millenia:95-2002)(MPV:91-2006) (MX-5Mazda:2006-2012) (MX-6:91-97)(Protege:93-2003) (Protege5:2002-2003)(RX-7:86-95) (RX-8:2005-2009)	
		Mercury	(Capri:91-94)(Cougar:89-92) (Cougar:93-97/wV6) (Mountaineer:97-2000)(Topaz:92-94) (Tracer:88-99)(Villager:94-2002)
		Mitsubishi	(3000GT:92-96)(Cordia:86-88) (Diamante:92-95)(Eclipse:90-99) (Galant:89-93)(MightyMax:87-94) (Mirage:85-92)(Montero:89-98) (Outlander:2003-2011)(OutlanderSport:2011) (Precis:88-92)(Starion:84-86)(Tredia:86-88)
	Mercedes	(200SX:84-88)(240SX:90-94) (300ZX:84-96)(Altilia:93-2006) (Access:90)(Cube:2009-2010)(DL1:86-94) (Frontier:98-2011)(Maxima:87-2008) (Murano:2003-2007)(NX:91-93) (Pathfinder:87-2004)(PulsarNX:87-89) (Quest:94-2009)(Rogue:2009-2010) (Sentra:87-2011)(Stanza:87-92) (Versa:2007-2011)(Xterra:2000-2012)	
	Nissan	(Colt:84-91)(Laser:93-94)	
	Plymouth	(Baja:2004-2005)(Brat:83-87)(DL:83-89) (Forester:99-2011)(GL:83-89) (GL-10:85-89)(Impreza:93-2011) (Justy:86-93)(Legacy:90-2011)(Loyale:90-92) (Outback:2000-2011)(RX:86) (SVX:94-97)(XT:85-91)	
	Subaru	(Equator:2009-2011)(Samurai:86)(Sidekick:89-91)(Swift:90-94) (XL-7:2004-2006)	
Suzuki	(4Runner:86-95)(Avalon95-2004) (Carny:83-91)(Carny:94-94toY) (Celica:83-89)(Corolla:83-82) (Cressida:85-92)(LandCruiser:93-2007) (MR2:89-95)(Previa:91-97) (Sienna:98-2006)(Solara99-2008) (Starlet:83-84)(Supra:87-90) (T100:95-98)(Tacoma:96-2004)(Tercel:83-90)		
Toyota			

	VW	(Vento)(T4)(Passat:90-97)(Beetle)(Sharan) (Cabrio:95-2002)(Corrado:90-94) (Eurovan:93-2003) (Golf:90-99)
		(90-98: mit Innengewinde am Ausgleichsbehälter, nicht für Passat & Beetle 98) (90-98: with female thread on filler neck of expansion tank, except 98 Passat & New Beetle)


	VW	(Beetle:98-2012) (CaddyIIIBox-2KA,2KH,2CA,2CH:2004) (CaddyIIIEstate-2KB,2KJ,2CB,2CJ:2004) (CC:2009-2013) (Crafter30-35Bus2E:2006) (Crafter30-50Box2E:2006) (Crafter30-50Platform/Chassis2F)(Eos:2007-2012) (Eos-1F7,1F8:2006)(Fox-5Z1,5Z3:2003)(Golf:99-2012)(GolfPlus-5M1,5Z1:2005) (GolfV-1K1:2003-2009) (Golf V Variant(1K5:2007)(GTI:2006-2013) (Jetta:97-2012) (JettaSaloon-1K2:2005-2010) (LT28-35 II Bus-2DM:96-2006) (LT28-46 II Box-2DX0AE:96-2006) (LT28-46 II Platform/Chassis2DX0FE:96-2006) (MultivanMkV-7HM,7HN,7EF,7EM,7EN:2003) (NewBeetle-9C1,1C1:98) (NewBeetleConvertible-1Y7:2002-2010) (Passat:98-2012)(Passat-3B3:2000-2005) (Passat-3C2:2005)(PassatVariant-3B6:2000-2005)(PassatVariant3C5:2005)(Polo-9N:2001) (PoloSaloon:2002)(R32:2008)(Rabbit:2006-2009)(Tiguan:2009)(Touran:2004-2012) (Touran-1T1,1T2,1T3:2003) (Transporter/CaravelleMkVBus-7HB,7HJ,7EB,7EJ,7EF:2003) (TransporterMkVBox-7HA,7HH,7EA,7EH:2003) (TransporterMkVPlatform/Chassis-7JD,7JE,7JL,7JY:2003)
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	BMW	(3-E30:82-92)(3-E36:90-98)(3-E46:98-2005)(3-E90:2005) (3Compact-E36:94-2000)(3Compact-E46:2001-2005) (3Convertible-E30:85-93)(3Convertible-E36:93-99) (3Convertible-E46:2000)(3Coupe-E36:92-99) (3Coupe-E46:99)(3Touring-E30:87-94) (3Touring-E36:95-99)(3Touring-E46:99-2005) (3Touring-E91:2005)(5-E28:80-90)(5-E34:87-95) (5-E39:95-2003)(5-E60:2003) (5Touring-E34:91-97)(5Touring-E39:97-2004) (7-E23:77-86)(7-E32:86-94)(7-E38:94-2001) (7E65:E66:2001)(8-E31:90-99)(X3-E83:2004) (X3-E53:2000)(Z3-E36:95-2003) (Z3Coupe-E36:97-2003)(Z4-E85:2003) (Z4Coupe-E86:2006)(Z8-E53:2000-2003) (Brilliance3Series-E46:2003-2005) (Brilliance3Series-E90:2004)	
		Land Rover	(Freelander - LN: 1998) (Range Rover III - LM: 2002)


	Cadillac	(Catera:97-2001)
	Chevrolet	(Aveo:2004-2011)(Aveo5:2006-2011)(Epica:2004)
	Daewoo	(Leganza:99-2002)(Lanos:99-2002)(Nubira:99-2002)
	Ford	(Contour:95-2000)(Fiesta:95-)(Focus:98-)(Fusion:2006-)
	GM	(Achieva)(Skyline)(GrandAm:92-2002)
	Jaguar	(AJL:90-94)(XJ6:95-2001)(XJR:98-2001) (XK8:97-2006)(XKR:2000-2006) (X-Type:2002-2007)
	Jeep	(900:94-98)(9-3:99-2003)(9-5:99-2008)
	LandRover	(Discovery:99-2004)(RangeRover:88-94)
	Mercedes	(ML-Class:97-2011)
	Mercury	(Mistiq:95-2000)
Pontiac	(LeMans:88-93)(G3:2009) (Wave:2005)(Wave5:2005-)	
Porsche	(911:99-)(Boxter:97-)	
Saab	(900:94-98)(9-3:99-2003)(9-5:99-2008)	
Saturn	(L100:2001-2002)(L200:2001-2003) (L300:2001-2005)(L300-1:2004)(L300-2:2004) (L300-3:2004)(LS:2000)(LS1:2000)(LS2:2000) (LW1:2000)(LW2:2000) (LW200:2001-2003)(LW300:2001-2003)(Vue:2002)	
Suzuki	(Foreza:2004-2008)(Reno:2005-2008) (Swift+:2004)(Verona:2004-2005)	


	Alfa Romeo	(145-930:94-2001)(146-930:94-2001) (164-164:87-98)(166-936:98) (33-907A:90-94) (33Sportwagon-907B:90-94)(GTV-916C:94) (Spider-916S:94-2005)
	Citroën	(JumperBoxZ30L:94-2002)(JumperBusZ30P:94-2002) (JumperPlatform/ChassisZ30:94-2002)
	Fiat	(CoupeFA1175:93-2000)(Croma-154:85-96) (DucatoBox-Z30L:94-2002) (DucatoBox-244:2002) (DucatoBus-230:94-2002)(DucatoBus-244Z:2002) (DucatoPlatform/ChassisZ30:94-2002)
	Lancia	(Deltall-836:93-99)(Kappa-938A:94-2001) (KappaCoupe-838:96-2001) (KappaSW-838B:96-2001) (Thema-834:84-94)(ThemaSW-834:87-94)
	MiniCooper	(S:2002)
	Peugeot	(206:99-)(307:2004)(406:99-)(407:2004)(807:2004-) (BoxerBox-230L:94-2002)(BoxerBus-230P:94-2002) (Boxerplatform/Chassis-ZCT:94-2002)
	Renault	(Alli-85-87)(Avantime:2002-)(Espace:2002-)
	Saab	(900:78-93)(9000:86-98)
	Sterling	(Alli:87-91)
	Jeep	
Volvo	mit Innengewinde / with female thread (A3:2006-2012)(A3B1:2003)(A3 Cabrio:2008) (A3Sportback-8PA:2004)(A4-96-2012) (A4-8EC:B7:2004-2008)(A4Avant-8ED:B7:2004-2008) (A4Quattro:96-2012)(A5:2011-2012) (A5Quattro:2006-2012)(A6:98-2012) (A6Quattro:98-2011)(A7Quattro:2012) (A8Quattro:2004-2010) (AllroadQuattro:2001-2005)(Q5:2009-2012) (Q7:2007-2012)(R8:2008-2012) (RS4:2007-2008)(RS6:2003)(S4:2000-2012) (S5:2008-2012)(S6:2002-2011) (S8:2007-2009)(TT:2000-2009)(TT-8J3:2006) (TT-8N3:98-2006) (TTQuattro:2000-2013) (TTRoadster-8J5:2007)(TTRoadster8N9:99-2006)	


	Audi	(A3:2006-2012)(A3B1:2003)(A3 Cabrio:2008) (A3Sportback-8PA:2004)(A4-96-2012) (A4-8EC:B7:2004-2008)(A4Avant-8ED:B7:2004-2008) (A4Quattro:96-2012)(A5:2011-2012) (A5Quattro:2006-2012)(A6:98-2012) (A6Quattro:98-2011)(A7Quattro:2012) (A8Quattro:2004-2010) (AllroadQuattro:2001-2005)(Q5:2009-2012) (Q7:2007-2012)(R8:2008-2012) (RS4:2007-2008)(RS6:2003)(S4:2000-2012) (S5:2008-2012)(S6:2002-2011) (S8:2007-2009)(TT:2000-2009)(TT-8J3:2006) (TT-8N3:98-2006) (TTQuattro:2000-2013) (TTRoadster-8J5:2007)(TTRoadster8N9:99-2006)
	BMW	(345)
	Porsche	(Cayenne)
	SEAT	(Atea-5P1:2004)(Cordoba-6K2:99-2002) (Cordoba-6L2:2002-2009)(IbizaII-6K1:99-2002) (IbizaIV-6L1:2002-2009)(Leon-1M1:9-2006) (Leon1P1:2005)(Toledo-1L:91-99) (Toledoll-1M2:99-2006)(Fabia:2006)(Fabia-6Y2:99-2008) (FabiaCombi:2007)(FabiaCombi-6Y5:2000-2007) (FabiaPraktik:2001-2007) (FabiaSaloon-6Y3:99-2007)(Laura:1Z3:2004) (OctaviaI:U2:96-2010)(OctaviaCombi-I:U5:98-2010) (OctaviaCombi-1Z5:2004)(Roomster-5J:2006) (Superb-3T4:2008)(Superb-3U4:2002-2008) (SuperEstate:3T5:2009)

	Opel	(Agila:2000-2008)(AsconaB:78-81) (AsconaC:81-88)(AstraCabrioF:93-2001) (AstraCabrioG:2001-2005)(AstraClassiC:98-2002) (AstraCoupeG:95-2005)(Astraf:91-98) (AstraG:98-2005)(Astrah:2004-2005) (AstraVanF:91-98)(AstraVanG:98-2004) (Calibra:89-98)(ComboCorsaB:92-2001) (ComboCorsaC:2001-2004)(CorsaA:82-93) (CorsaB:93-2000)(CorsaC:2000-2006) (CorsaVanA:82-94)(CorsaVanB:94-2001) (CorsaVanC:2000-2003)(FronteraA:91-98) (KadettD:79-84)(KadettE:84-92)(KadettVanE:84-92) (MantaA:74-75)(MantaB:75-88)(Meriva:2003-2005) (Monza:81-87)(OmegaA:86-94)(OmegaB:94-2003) (SenatorA:81-87)(SenatorB:87-93)(TigraA:94-2001) (TigraB:2004)(VectraA:88-95)(VectraB:95-2003) (ZafiraA:99-2005)(ZafiraVan:2002-2003) (AstraCabrioII:91-2001)(AstraCabrioIV:2001-2007) (AstraCoupeV:99-2005)(Astral:79-84)(AstralII:84-91) (AstralIII:91-98)(AstralV:98-2005)(AstralVanIII:91-96) (AstralVanIV:98-2005)(Astramax:85-91) (AstravanII:82-84)(AstravanII:84-91) (Belmont:86-91)(Calibra:90-98)(Carlton:83-94) (CavalierI:81-88)(CavalierII:88-95)(Combo:93-2004) (ComboCrewVan:2001-2006)(Corsal:93-2000) (Corsal:2000-2006)(CorsaVanI:93-2001) (CorsaVanII:2001-2006)(FronteraA:91-98)(Meriva:82-93) (Nova:82-93)(NovaVan:90-93)(Omega:94-2003) (Senator:87-93)(Tigra:94-2004)(Vectra:99-2005) (ZafiraA:99-2005)(ZafiraB:2005-2007)	
		Mazda	(2:2002-2007)(121:96-2002)
		Saab	(900I:93-98)
		Škoda	(Favorit:89-95)(FavoritForman:93-95) (Felicia-6U1:94-2000)
		Ssangyong	
		LandRover	


	Bild / Image	Verwendung / Application
		(300SE:92-93)(400SE:92)(400SEL:93)(500SEC:93) (500SEL:92-93)(500L:00-93)(600SEC:93) (600SEL:92-93)(600SL:93)(C230:2002) (C240:2001-2005)(C280:94-2007)(C300:2008-2009) (C32AMG:2002-2004)(C320:2001-2005)(C350:2008) (C36AMG:95-97)(C43AMG:98-2000) (CL500:98-2006)(CL55AMG:2001-2002)(CL600:98-2006) (CL65AMG:2005-2006)(CLK320:98-2005) (CLK430:99-2003)(CLK500:2003-2005) (CLK55AMG:2001-2005)(E300:96-97)(E320:96-2005) (E350:2006-2009)(E420:97)(E430:98-2002) (E500:2003-2006)(E55AMG:99-2002) (E550:2009)(G500:2002-2005)(G55AMG:2003-2005) (GL450:2007-2008)(ML350:2006-2008) (ML500:2006-2007)(ML550:2008-2009) (S320:94-99)(S350:94-2006)(S420:94-99) (S500:94-2006)(S55AMG:2001-2006) (S800:94-2006)(S85AMG:2006)(SL320:94-97) (SL500:94-98)(SL600:94-2002)(SLK280:2006-2008) (SLK32AMG:2002-2004)(SLK320:2001-2004) (SLK350:2006-2008)(SLK55AMG:2008)
	Mercedes	


	VW	(Beetle:98-2012) (CaddyIIBox-2KA,2KH,2CA,2CH:2004) (CaddyIIIestate-2KB,2KJ,2CB,2CJ:2004) (CC:2009-2013) (Crafter30-35Bus2E:2006) (Crafter30-50Box2E:2006) (Crafter30-50Platform/Chassis2F)(Eos:2007-2012) (Eos -F7,1F8:2006)(Fox-5Z1,5Z3:2003)(Golf99-2012)(GolfPlus-5M1,5Z1:2005) (GolfV-1K1:2003-2009) (Golf V Variant(1K5:2007)(GTI:2006-2013) (Jetta:97-2012) (JettaSaloon-1K2:2005-2010) (LT28-35 II Bus-2DM:96-2006) (LT28-46 II Box-2DX0AE:96-2006) (LT28-46 II Platform/Chassis2DX0FE:96-2006) (MultivanMKV-7HM,7HN,7EF,7EM,7EN:2003) (NewBeetle9C1,1C1:98) (NewBeetleConvertible-1Y7:2002-2010) (Passat99-2012)(Passat-3B3:2000-2005) (Passat-3C2:2005)(PassatVariant-3B6:2000-2005)(PassatVariantC5:2005)(Polo-9N:2001) (PoloSaloon:2002)(R32:2008)(Rabbit:2006-2009)(Tiguan:2009)(Touran;2004-2012) (Touran-1T1,1T2,1T3:2003) (Transporter/CaravelleMKV/Bus-7HB,7HJ,7EB,7EJ,7EF:2003) (TransporterMKVBox-7HA,7HH,7EA,7EH:2003) (TransporterMKVPlatform/Chassis-7JD,7JE,7JL,7JY,7JZ:2003)
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	BMW	(3-E30:82-92)(3-E36:90-98)(3-E46:98-2005)(3-E90:2005) (3Compact-E36:94-2000)(3Compact-E46:2001-2005) (3Convertible-E36:85-93)(3Convertible-E36:93-99) (3Convertible-E46:2000)(3CCoupe-E36:92-99) (3Coupe-E46:99)(3Touring-E30:87-94) (3Touring-E36:95-99)(3Touring-E46:99-2005) (3Touring-E91:2005)(5-E28:80-90)(5-E34:87-95) (5-E39:95-2003)(5-E60:2003) (5Touring-E34:91-97)(5Touring-E39:97-2004) (7-E23:77-86)(7-E32:86-94)(7-E38:94-2001) (7E65,E66:2001)(8-E31:90-99)(X3-E83:2004) (X3-E53:2000)(Z3-E36:95-2003) (Z3Coupe-E36:97-2003)(Z4-E85:2003) (Z4Coupe-E86:2006)(Z8-E53:2000-2003) (Brilliance3Series-E46:2003-2005)
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	Audi VW	75-93: (Aufsengewinde am Behälter / w/male thread on tank) (Golf:83-92) (Cabriolet: 85-93) (Golf:80-81) (Fox: 87-93) (Golf: 85-90) (Jetta: 80-90) (Quantum: 80-88) (Golf / Rabbit: 75) (Golf Cabrio / Rabbit Convertible: 80-84) (Sirocco: 75-88)
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	Caterham Ford	(Super Seven: 1990-1999) (Cougar: 1998-2001) (Mondeo: 1996-2007) (Mondeo Estate Wagon: 1996-2007) (Transit 260: 2000-2006) (Transit 280: 2000-2006) (Transit 300: 2000-2006) (Transit 330: 2000-2006) (Transit 350: 2000-2006) (Transit 425: 2003-2006) (Transit 430: 2001-2006) (Transit Tourneo: 2000-2006) (Courier III: 1990-1995) (Courier IV: 1995-2001) (Escort 55 IV: 1986-1990) (Escort 55 VI: 1994-2000) (Escort IV: 1986-1990) (Escort V: 1990-1996) (Escort VI: 1995-2000) (Fiesta Classic: 1987-1989) (Fiesta II: 1989-1989) (Fiesta III: 1989-1996) (Fiesta IV: 1995-1999) (Fiesta V: 1999-2002)
	Ford	(Fiesta Van II: 1987-1989) (Fiesta Van III: 1989-1996) (Fiesta Van IV: 1995-2002) (Fiesta Van V: 1999-2002) (Fiesta Van VI: 2002-2008) (Fiesta VI: 2002-2008) (Focus I: 1998-2005) (Focus Wagon I: 1998-2005) (Fusion: 2002-2005) (Ka I: 1996-2005) (Granada Scorpion: 1985-1994) (Mondeo I: 1993-1996) (Mondeo II: 1996-1998) (Mondeo Wagon I: 1993-1996) (Mondeo Wagon II: 1996-2000) (Orion II: 1986-1990) (Orion III: 1990-1993) (P100 Sierra: 1989-1994) (Puma I: 1997-2002) (Scopio I: 1984-1994) (Scopio II: 1994-1998) (Sierra Cosworth II: 1987-1993) (Sierra I: 1984-1987) (Sierra II: 1987-1993) (Sierra Sapphire II: 1987-1993) (Streetka I: 2003-2005) (Transit 100: 1994-1999) (Transit 120: 1994-1999) (Transit 150: 1994-1999) (Transit 190: 1994-1999) (Transit Connect: 2002-)


	Ford Europa	(B-Max:2012)(C-Max:2007-2012)(Fiesta:2001-2013) (FiestaVan:2008-2010)(Focus:2004-2013) (FocusCC:2006-2011)(FocusC-Max:2003-2007) (FocusEstateWagon:2004-2013)(FocusVan:2005-2013) (Galaxy:2006-2011)(GalaxyVan:2006-2010) (GrandC-Max:2010-2012)(Kuga:2008-2012) (Mondeo:2007-2012)(MondeoEstateWagon:2007-2011) (S-Max:2006-2011)(Transit250:2011) (Transit260:2006)(Transit280:2006)(Transit300:2006) (Transit330:2006-2013)(Transit350:2006-2013) (Transit370:2006)(Transit410:2006) (Transit430:2006-2013)(Transit460:2006) (TransitCustom250:2012)(TransitCustom270:2012) (TransitCustom290:2012) (TransitCustom300:2012)(TransitCustom310:2012) (TransitCustom330:2012) (TransitTourneo:2012)(TransitTourneoCustom:2012)
	Ford USA	(Ranger: 2011)
	Ford Australia	(Fiesta WS: 2008) (Fiesta Hatchback WT: 2010) (Fiesta Saloon WT: 2010) (Focus Hatchback LT: 2005) (Focus Hatchback LV: 2009-2011) (Focus Hatchback LT: 2005) (Focus Saloon LS, LT: 2005) (Focus Saloon LV: 2009-2011) (Mondeo Hatchback MA, MB: 2007)
	Land Rover	(Freelander 2 FA: 2006) (Range Rover Evoque: 2011) (Freelander: 2006-2013) (LR2: 2006)
	Mazda	(2: 2007) (3: 2003-2013) (5: 2010) (2 DE: 2007) (3 BK: 2003) (3 BL: 2009) (3 Saloon BK: 2000-2009) (3 Saloon BL: 2009) (5 CW: 2010) (Axela: 2003) (BT50: 2011)
	Volvo	(C30: 2006-2012) (C70: 2005-2011) (C70 II Convertible: 2006) (S40: 2004-2010) (S40 II MS: 2004) (S60: 2010-2013) (S60 II: 2010) (S80: 2006-2012) (S80 II AS: 2006) (V40: 2012) (V40 Cross Country: 2012) (V40 Hatchback: 2012) (V50: 2003-2012) (V50 NW: 2004) (V60: 2010-2013) (V70: 2007-2012) (V70 III Estate: 2007) (XC60: 2008) (XC70: 2007-2012) (XC70 Cross Country: 2007-2011) (XC70 II: 2007)


	Opel	(Aquila:2000-2006)(AsconaB:78-81) (AsconaC:81-88)(AstraCabrioF:93-2001) (AstraCabrioG:2001-2005)(AstraClassicF:98-2002) (AstraCoupeG:99-2005)(Astraf:91-98) (AstraG:98-2005)(AstraH:2004-2005) (AstraVanF:91-98)(AstraVanG:98-2004) (Calibra:89-95)(ComboCorsaB:92-2001) (ComboCorsaC:2001-2004)(CorsaA:82-93) (CorsaB:93-2000)(CorsaC:2000-2006) (CorsaVanA:82-94)(CorsaVanB:94-2001) (CorsaVanC:2000-2003)(FronteraA:91-98) (KadettD:79-84)(KadettE:84-92)(KadettVanE:84-92) (MantaA:74-75)(MantaB:75-88)(Meriva:2003-2005) (Monza:81-87)(OmegaA:86-94)(OmegaB:94-2003) (SenatorA:81-87)(SenatorB:87-93)(TigraA:94-2001) (TigraB:2004)(VectraA:88-95)(VectraB:95-2003) (ZafiraA:99-2005)(ZafiraVan:2002-2003)
	Opel Vauxhall	(AstraCabrioII:91-2001)(AstraCabrioIV:2001-2007) (AstraCoupelV:99-2005)(Astral:79-84)(AstralII:84-91) (AstralIII:91-98)(AstralV:98-2005)(AstralVanIII:91-96) (AstralVanIV:98-2005)(Astramax:85-91) (AstravanII:82-84)(AstravanII:84-91) (Belmont:86-91)(Calibra:90-98)(Carlton:83-94) (CavalierII:81-88)(CavalierIII:88-95)(Combo:93-2004) (ComboCrewVan:2001-2006)(Corsal:93-2000) (CorsalII:2000-2006)(CorsaVanI:93-2001) (CorsaVanII:2001-2006)(FronteraA:91-98)(Meriva:82-93) (Nova:82-93)(NovaVan:90-93)(Omega:94-2003) (Senator:87-93)(Tigra:94-2004)(VectraI:99-2005) (VectraA:99-2005)(ZafiraB:2005-2007)
	Mazda	(2:2002-2007)(121:96-2002)
	Saab	(900II:93-98)
	Škoda	(Favorit:89-95)(FavoritForman:93-95) (Felicia:6U1:94-2000)
	Ssangyong	
	LandRover	

	Mercedes	(300SE:92-93)(400SE:92)(400SEL:93)(500SEC:93) (500SEL:92-93)(500SEL:00-93)(600SEC:93) (600SEL:92-93)(600SEL:93)(C230:2002) (C240:2001-2005)(C280:94-2007)(C300:2008-2009) (C32AMG:2002-2004)(C320:2001-2005)(C350:2008) (C36AMG:95-97)(C43AMG:98-2000) (CL500:98-2006)(CL55AMG:2001-2002)(CL600:98-2006) (CL65AMG:2005-2006)(CLK320:98-2005) (CLK430:99-2003)(CLK500:2003-2005) (CLK55AMG:2001-2005)(E300:96-97)(E320:96-2005) (E350:2006-2009)(E420:97)(E430:98-2002) (E500:2003-2006)(E55AMG:99-2002) (E550:2009)(G500:2002-2005)(G55AMG:2003-2005) (GL450:2007-2008)(ML350:2006-2008) (ML500:2006-2007)(ML550:2008-2009) (S320:94-99)(S350:94-2006)(S420:94-99) (S500:94-2006)(S55AMG:2001-2006) (S600:94-2006)(S65AMG:2006)(SL320:94-97) (SL500:94-98)(SL600:94-2002)(SLK280:2006-2008) (SLK32AMG:2002-2004)(SLK320:2001-2004) (SLK350:2006-2008)(SLK55AMG:2008)
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	Chrysler	(Crossfire:2004-)
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	Ford	(Mondeo: 2000-2007) (Focus: 2000-2005) (C-MAX03) (Contour: 1995-2000) (Mercury (Cougar: 1999) (Mystique: 1995-1999)
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	Ford Internation.	(C-Max: (2007-2012) (C-Max II: 2010) (Fiesta V JH, JD: 2001) (Fiesta Van: 2009) (Fiesta VI: 2009) (Fiesta VI: 2008) (Focus C-Max: 2003-2007) (Focus II DA: 2004) (Focus II Convertible: 2006) (Focus II Estate DAW: 2004) (Focus Saloon DA: 2005) (Focus II Station Wagon DAW: 2004) (Focus III: 2011) (Focus III Saloon: 2011) (Focus III Turnier: 2011) (Galaxy: 2006) (Grand C-Max: 2010) (Kuga: 2008) (Mondeo IV: 2007) (Mondeo IV Saloon: 2007) (Mondeo IV Turnier: 2007) (Ranger: 2011) (S-Max: 2006) (Transit Bus: 2006) (Transit Flatbed Chassis: 2006) (Transit Tourneo: 2006)
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	Mercedes	(A140: 1997-2004)(A150: 2004-2012) (A160: 1997-2012)(A170: 1998-2012) (A180: 2004-2012)(A190: 1999-2004) (A200-2004-2012)(A21 AMG: 2002-2004) (A210: 2002-2004)(B150: 2009-2011) (B160: 2009-2011)(B170: 2005-2011) (B180: 2005-2011)(B200-2005-2011) (Vaneo: 2001-2005)(Vaneo 1.6: 2002) (Vaneo 1.7: 2002)(Vaneo 1.9: 2002) (W168: 1997-2004)
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Instructions

	Saab	(EcoPower 9-3, 9-5)		BMW	(X5: 2000-2011)(X5 M: 2009-2012) (X5 xDrive 30i: 2008-2010)(X5 xDrive 48i) (X5 xDrive 50i: 2010-2012)(X6: 2008-2012) (ActiveHybrid X6: 2010)(X6 M: 2009) (X6 xDrive 35i: 2008-2013)(X6 xDrive 50i: 2008) (Z3: 1996-2002)(Z4: 2003-2008) (Z8: 2000-2003)
	Opel	(Astra: 2004-2013)(Astra Cabrio: 2003-2006) (Astra Classic: 2006-2009)(Astra Coupe: 2003-2005) (Astra GTC: 2005-2011)(Astra H: 2004-2010) (Astra Van: 2004-2010)(Corsa: 2006-2013) (Corsa D: 2007-2011)(Corsa Van: 2006-2010) (Meriva: 2006-2010)(Signum: 2003-2008) (Vectra: 2002-2009)(Zafira: 2005) (Zafira B: 2005-2011)(Zafira Van: 2005)		Ford SEAT VW	(Galaxy Van: 1995-2006) (Alhambra Van: 1996-2010) (Sharan Van: 1996-2010)
	Fiat	(Croma: 2005-2013)		Lexus Scion Toyota	(GS460: 2008-2011)(HS 250h: 2010) (IS F: 2008-2013)(LS460: 2007-2013) (LS 600h: 2008-2012) (tC: 2011-2012)(xB: 2008-2012) (Celica: 2000-2005)(MR2 Spyder: 2000-2005) (Prius: 2010-2011)(RAV4: 2006-2012)
	Chevrolet	(Avalanche 1500: 2002-2006)(Avalanche: 2007) (Cavali�r: 1999-2005)(Classic: 2004) (Cobalt: 2007)(Colorado: 2004-2007) (Equinox: 2005-2007)(Express 1500:2004-2007) (Express 2500: 2003-2007)(Express 3500: 2003-2007) (HHR: 2007)(Malibu: 2001-2007) (Silverado 1500: 1999-2007) (Silverado 1500 HD: 2002-2007) (Silverado 2500: 1999-2004) (Silverado 2500 HD: 2001-2007) (Silverado 3500: 2001-2007) (Silverado 3500 HD: 2007)(SSR: 2006) (Suburban 1500: 2001-2007) (Suburban 2500: 2001-2007) (Tahoe: 2000-2007)(Trailblazer: 2002-2007) (Viva:2003-2008)		BMW	(550i: 2010-2012) (550i Gran Turismo: 2012) (550i GT: 2010-2012) (550i GT xDrive: 2011-2012) (550i xDrive Gran Turismo: 2012) (550i X: 2011-2012) (550i XGT: 2010-2012) (650i: 2012)(650i Cabrio: 2012) (650i Convertible: 2011-2012) (650i Coupe: 2011-2012) (650i Gran Coupe: 2012)(650i xDrive Gran Coupe: 2012) (650iX Convertible: 2012)(650i X Coupe: 2012) (750i: 2009-2012) (750i Active Hybrid: 2011) (750i xDrive: 2010-2011)(750i X: 2010) (750Li: 2009-2012)(750 Li Active Hybrid: 2011) (750 LiX: 2010) (760i: 2010-2012)(760Li: 2010-2012) (Alpina B7: 2010-2012) (Alpina B7 xDrive: 2011-2012) (Alpina B7L: 2010-2012) (Alpina B7L xDrive: 2011-2012) (Alpina B7XL: 2011-2012)(Alpina B7X: 2011-2012) (Hybrid 5: 2012) (M5: 2012) (M6 Convertible:2012) (X5: 2004-2012) (X5 50i: 2011) (X5 M: 2009-2010) (X5 xDrive 48i: 2008-2010)(X5 xDrive 50i: 2010) (X6: 2008-2012) (X6 50i: 2008-2010) (X6 Active Hybrid: 2010)(X6 Hybrid: 2010-2011) (X6 M: 2009-2010)(X6 xDrive 50i: 2008)
	Buick	(LaCrosse: 2005)(Rainier: 2005-2007)		Land Rover	(Range Rover: 2003-2005)
	Cadillac	(CTS: 2006)(Escalade: 2004-2007) (SRX: 2004-2007)(STS: 2005-2006)(BLS: 2007)		Mini	(Cooper:2008-2012) (Cooper Clubman: 2008-2012) (Cooper Countryman: 2011-2012) (Cooper Cabrio: 2009-2012) (Cooper S Clubman: 2008-2012) (Cooper S Convertible: 2009-2012) (Cooper SX: 2011-2012) (Cooper Works: 2007-2012) (Cooper Works Clubman: 2008-2012) (Cooper Works Convertible: 2009-2012) (Cooper S:2007-2012) (Mini Clubman: 2007-2013) (Mini Clubvan: 2010-2012) (Mini Cooper: 2006-2013) (Mini Countryman: 2010-2013) (Mini Coupe: 2011) (Mini One: 2009-2010) (Mini Roadster: 2012)
	Ford	(Crown Victoria: 1993-2011)(E-150: 2003-2012) (E-150 Club Wagon: 2003-2005) (E-150 Econoline: 1992-2002) (E-150 Econoline Club Wagon: 1992-2012) (E-250 Econoline: 1992-2002) (E-250 Super Duty: 2004-2005)(E-350: 2003) (E-350 Club Wagon: 2003-2005) (E-350 Econoline: 1992-2002) (E-350 Econoline Club Wagon: 1992-2002) (E-350 Super Duty: 2004-2012) (Edge: 2007-2012)(Excursion: 2000-2005) (Expedition: 1997-2008)(Explorer: 2002-2012) (F-150: 1997-2012)(F-250 Super Duty: 1999-2012) (F-350 Super Duty: 2005-2012) (F-450 Super Duty: 2005-2012) (F-550 Super Duty: 2005-2012) (Five Hundred: 2005-2007)(Flex: 2009-2012) (Freestar: 2004-2007)(Fusion: 2006-2012) (Mustang: 1996-2012)(Ranger: 1998-2011) (Taurus: 1995-2012) (Thunderbird: 2002-2005)(Windstar: 1999-2003)			
	Pontiac	(G5: 2007)(G6: 2006)(Grand Am: 199-2005) (Grand Prix: 2005-2006) (Pursuit: 2005-2006)(Solstice: 2006-2007) (Sunfire: 2005)			
	Saab	(9-3: 2003-2012)(9-3 Sport: 2002-2012) (9-3 X: 2009-2012)(9-7 X: 2007)			
	Saturn	(Aura: 2007)(Ion 1: 2003-2005)(Ion 2: 2003-2007)(Ion 3: 2003-2007)(Outlook: 2007)(Sky: 2007)(Vue: 2005-2007) (Canyon: 2004-2007)(Envoy: 2003-2007) (K2500 Suburban: 1999)			
	GMC	(Savana 1500: 2003-2007)(Savana 2500:2003-2007) (Savana 3500: 2004-2007)(Sierra 1500: 1999-2007) (Sierra 1500 HD: 2001-2007)(Sierra 2500: 1999-2004) (Sierra 2500 HD: 2001-2007)(Sierra 3500: 2001-2007)(Sierra 3500 HD: 2007)(Sierra C3: 2001) (Yukon: 2000-2006)(Yukon XL 1500: 2000-2007) (Yukon XL 2500: 2001-2007)			
	Suzuki	(XL-7: 2007)			
	Vauxhall	(Astra: 2002-2011)(Astra Cabrio: 2006-2011) (Astra Coupe: 2005-2008) (Zafira: 2005-2013) (Astra GTC: 2004-2011)(Combo: 2005-2011) (Corsa: 2006-2012)(Meriva: 2006-2010) (Signum: 2003-2006)(Vectra: 2002-2006)			
	Mazda	(Mazda 6: 2006)			
	Mercury	(Cougar: 1993-1997)(Grand Marquis: 1993-2011) (Milan: 2006-2011) (Monterey: 2004-2007)(Sable: 1996-2009)			
	Lincoln	(Continental: 1995-2002)(Mark VIII: 1993-1998) (MKC: 2009-2012)(MKZ: 2010-2012) (MKZ: 2007-2012)(MKZ: 2007-2012) (Town Car: 1993-2011)(Zephyr: 2006)			
	Oldsmobile	(Alero: 1999-2004)(Cutlass: 1999)(Intrigue: 2002)			
	Isuzu	(Ascender: 2003-2006)(i-280: 2006)(i-290: 2007)			
	Hummer	(H2: 2004-2006)(H3: 2006)			

Warranty

If you are unsure on how to use the item please contact us. If it were to fail due to a manufacturing fault or poor workmanship we will repair or replace it. Please contact your local dealer in the event you need to send the item back. You can also make a repair/replacement request on our website and download & complete the form online. Normal wear and tear along with misuse will void any warranty. Consumables are not covered under warranty.

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+44 (0)1461 700120
Welzh House
Greenfield Business Park
Loanwath Road
Gretna, DG16 5HD