

# Appareil de contrôle de pression du circuit de refroidissement



| Art. N° | Désignation                                                                                                           |
|---------|-----------------------------------------------------------------------------------------------------------------------|
| 8027-1  | Pression de radiateur pompe de test avec manomètre                                                                    |
| 8027-2  | Thermomètre                                                                                                           |
| 8027-3  | Mercedes Benz (W123 W124 W126 W201), GM Buick et Jeep                                                                 |
| 8027-4  | Peugeot, Subaru, Chrysler, Accura, GM, Mitsubishi, Nissan, Mazda, Toyota, Infinity, Geo, Suzuki, Isuzu, Mercedes Benz |
| 8027-5  | Honda, Toyota, Suzuki, Mitsubishi, Chrysler, Accura, Lexus                                                            |
| 8027-6  | Mercedes Benz (ML-Classe W163, W164), GM (Archiva, Skylarc, Grand am 1992~2002)                                       |
| 8027-7  | Volvo, Saab, Sterling, Citroën, Renault, Fiat, Alfa, Jeep, Mini                                                       |
| 8027-8  | VW Vento, T4, Passat 1996, Golf Beatle, Sharan                                                                        |
| 8027-9  | Audi A4, A5, A6, BMW 345, VW Passat 1997-2002, Porsche Cayenne                                                        |
| 8027-10 | BMW E32, E34, E36, E38, E39, E46, E90                                                                                 |
| 8027-11 | VW, Audi                                                                                                              |
| 8027-12 | Ford Mondeo, International, Land Rover, Opel, Ssangyong                                                               |
| 8027-13 | Mercedes Benz (C-, E- und S-Klasse) W140, W124, W210, W211, W215, W216, W22, R230                                     |
| 8027-14 | Ford Mondeo, Focus, C-Max                                                                                             |
| 8027-15 | Mazda (M3)                                                                                                            |
| 8027-30 | Élément de raccordement R 123/R124 (noir)                                                                             |
| 8027-31 | Élément de raccordement R 123/R125 (bleu)                                                                             |
| 8027-32 | Outil pour l'adaptateur                                                                                               |
| 8027-33 | Tuyau                                                                                                                 |

## REMARQUES CONCERNANT LA SÉCURITÉ

- Attention lors de l'ouverture du système de refroidissement ; les systèmes de refroidissement peuvent être sous pression et du liquide de refroidissement chaud peut jaillir et provoquer des brûlures.
- Avant le démontage de la pompe ou des adaptateurs, évacuez la pression établie.
- Après le test de pression ou encore après la réparation, remettez du liquide de refroidissement jusqu'au niveau requis et vérifiez l'efficacité contre le gel.
- Attention lorsque vous travaillez sur des moteurs en marche ; les vêtements amples peuvent être happés par des pièces de moteur en rotation.

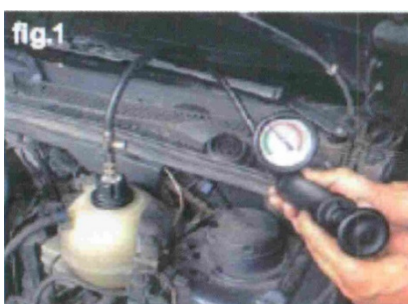
## INSTRUCTIONS

### 1. Vérifiez l'étanchéité du système de refroidissement

- 2.1 Retirez le couvercle d'origine du radiateur ou du vase d'expansion.
- 2.2 Sélectionnez l'adaptateur approprié dans le kit de test et reliez-le au radiateur ou au vase d'expansion.
- 2.3 Reliez ensuite la pompe à main (1) à l'adaptateur.
- 2.4 Actionnez la pompe de test jusqu'à ce qu'une pression de 10 à 15 psi soit atteinte. (voir la fig. 1+2).

**ATTENTION :** Evitez une pression de 35 psi ou plus !

Vérifiez le manomètre. Si la valeur affichée baisse, le système de refroidissement présente une fuite. Les fuites se manifestent par une chute de pression et par de l'eau sortant de l'endroit de fuite.



### 2. Vérifiez l'étanchéité du couvercle de radiateur

- 2.1 Retirez le couvercle d'origine du radiateur
- 2.2 Choisissez l'élément de raccordement 2A ou 2b, le couvercle de radiateur d'origine existant.
- 2.3 Actionnez la pompe de test à plusieurs reprises et observez le manomètre pour détecter une éventuelle fuite.
- 2.4 (voir la fig.3)
- 2.5 Comparez la pression mesurée aux valeurs de pression standard du couvercle de radiateur.

## MAINTENANCE / STOCKAGE

- Reliez la pompe à main à l'adaptateur. Actionnez la pompe à main à plusieurs reprises, cela permet d'évacuer le liquide de refroidissement résiduel de l'adaptateur.
- Versez quelques gouttes d'huile dans la pompe à main à travers le raccord afin de lubrifier le piston.

## REMARQUE IMPORTANTE

La présente notice ne remplace en aucun cas le manuel d'entretien. Ce manuel d'entretien comporte des données et d'autres remarques importantes.

Il faut disposer des données spécifiques au véhicule pour tous les tests ; sans ces données, un diagnostic erroné ne peut pas être exclu.

# Verwendung der Prüfadapter Application of test adapter Application de adaptateur Aplicación de la adaptador de Pruebas

| Nr./No   | Bild / Image                                                                       | Verwendung / Application |                                                                                                                                                                                                                                                                     |
|----------|------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3</b> |   | 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                  | (Bonneville:90-)(GrandPrix:-2003)                                                                                                                                                                                                                                   |
|          |                                                                                    |                          |                                                                                                                                                                                                                                                                     |
| <b>4</b> |  | Acura                    | (Integra:91-93)(Legend:89-90)<br>(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)<br>(Ram50:89-92)(Stealth:93-96)                                                                                                                                                                                                         |
|          |                                                                                    | Eagle                    | (Summit:89)(Talon:91-98)                                                                                                                                                                                                                                            |
|          |                                                                                    | Ford                     | (Aspire:94-97)(Escort:91-2002)<br>(Expedition:2009-2011)(Explorer:95-2001)<br>(ExplorerSportTrac:2001-2005) (F-150:2009-2011)<br>(Festiva:89-93)(Mustang:97-2004)<br>(Probe:89-97)(Ranger:95-2011)<br>(Tempo:92-94)(Thunderbird:92-95)<br>(Windstar:96-99)          |
|          |                                                                                    | Geo                      | (Metro:89-93)(Prizm:89-91)<br>(Spectrum:89)(Storm:90-93)<br>(Tracker:89)                                                                                                                                                                                            |
|          |                                                                                    | GM                       | (Nova,Spectrum,Sprint)                                                                                                                                                                                                                                              |
|          |                                                                                    | Honda                    | (Accord:90-93)(Civic:88-91)<br>(CRX:89-90)(Motorcycles:91-2004)<br>(Passport:94-2002)(Prelude:90-98)                                                                                                                                                                |
|          |                                                                                    | Hyundai                  | (Accent:95-2010)(Azera:2006-2010)<br>(Elantra:92-2011)(Entourage:2007-2008)<br>(Excel:86-94)(Genesis:2009-2010)<br>(GenesisCoupe:2010)(SantaFe:2002-2010)<br>(Scoupe:94)(Sonata:89-2011)<br>(Tiburon:98-2008)(Tuscon:2005-2010)<br>(Veracruz:2007-2010)(XG350:2004) |
|          |                                                                                    | Infiniti                 | (FX35:2003-2007)(G20:91-2002)(G35:2004-2007)<br>(I30:97-2000)(I35:2002-2004)(J30:96)<br>(M30:90-92)(M35:2006-2009)(M45:2003-2010)<br>(Q45:90-2006)(QX4:98-2003)                                                                                                     |
|          |                                                                                    | Isuzu                    | (Amigo:89-2000)(Axiom:2002-2004)<br>(I-Mark:85-89)(Impulse:85-92)<br>(Rodeo:91-98)(Stylus:91-92)<br>(Trooper:86-2002)(VehiCROSS:99)                                                                                                                                 |

| Nr./No. | Bild / Image                                                                      | Verwendung / Application |                                                                                                                                                                                                                                                                                                                                       |
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| 4       |  | Kia                      | (Amanti:2006-2009)(Borrego:2009)(Forte:2011)<br>(Optima:2002-2010)(Rio:2002-2011)<br>(Rio5:2007-2011)(Rondo:2009-2010)(Sedona:2003-2011)<br>(Sephia:94-2001)(Sorento:2003-2011)<br>(Soul:2010-2011)(Spectra:2000-2009)<br>(Spectra5:2005-2009)(Sportage:95-2011)                                                                      |
|         |                                                                                   | Lexus                    | (ES300:96-2003)(ES330:2005)(LS400:92)<br>(LX450:96-99)(LX470:98-2005)(SC400:92)                                                                                                                                                                                                                                                       |
|         |                                                                                   | Lincoln                  | (Navigator:2009-2011)                                                                                                                                                                                                                                                                                                                 |
|         |                                                                                   | Mazda                    | (323:86-93)(626:85-99)(929:90-93)<br>(B2000:86-87)(B2200:88-93)(B2300:2005)<br>(B2500:98-2000)(B2600:87-93)<br>(B3000:96-2007)(B4000:95-2006)<br>(CX-9:2007-2010)(Matia:91-2005)<br>(Millenia:95-2002)(MPV:91-2006)<br>(MX-5Matia:2006-2012)<br>(MX-6:91-97)(Protegé:93-2003)<br>(Protegé5:2002-2003)(RX-7:86-95)<br>(RX-8:2005-2009) |
|         |                                                                                   | Mercury                  | (Capri:91-94)(Cougar:89-92)<br>(Cougar:93-97w/V6)<br>(Mountaineer:97-2000)(Topaz:92-94)<br>(Tracer:88-99)(Villager:94-2002)                                                                                                                                                                                                           |
|         |                                                                                   | Mitsubishi               | (3000GT:92-96)(Cordia:86-88)<br>(Diamante:92-95)(Eclipse:90-99)<br>(Galant:89-93)(MightyMax:87-94)<br>(Mirage:85-92)(Montero:89-98)<br>(Outlander:2003-2011)(OutlanderSport:2011)<br>(Precis:88-92)(Starion:84-86)(Tredia:86-88)                                                                                                      |
|         |                                                                                   | Mercedes                 |                                                                                                                                                                                                                                                                                                                                       |
|         |                                                                                   | Nissan                   | (200SX:84-88)(240SX:90-94)<br>(300ZX:84-96)(Altima:93-2006)<br>(Axxess:90)(Cube:2009-2010)(D21:86-94)<br>(Frontier:98-2011)(Maxima:87-2008)<br>(Murano:2003-2007)(NX:91-93)<br>(Pathfinder:87-2004)(PulsarNX:87-89)<br>(Quest:94-2009)(Rogue:2009-2010)<br>(Sentra:87-2011)(Stanza:87-92)<br>(Versa:2007-2011)(Xterra:2000-2012)      |
|         |                                                                                   | Plymouth                 | (Colt:84-91)(Laser:93-94)                                                                                                                                                                                                                                                                                                             |
|         |                                                                                   | Subaru                   | (Baja:2004-2005)(Brat:83-87)(DL:83-89)<br>(Forester:99-2011)(GL:83-89)<br>(GL-10:85-89)(Impreza:93-2011)<br>(Justy:88-93)(Legacy:90-2011)(Loyale:90-92)<br>(Outback:2000-2011)(RX:86)<br>(SVX:94-97)(XT:85-91)                                                                                                                        |
|         |                                                                                   | Suzuki                   | (Equator:2009-2011)(Samurai:86)(Sidekick:89-91)(Swift:90-94)<br>(XL-7:2004-2006)                                                                                                                                                                                                                                                      |
|         |                                                                                   | Toyota                   | (4Runner:86-95)(Avalon95-2004)<br>(Camry:83-91)(Camry:94-994cyl.)<br>(Celica:83-89)(Corolla:83-92)<br>(Cressida:85-92)(LandCruiser:93-2007)<br>(MR2:89-95)(Previa:91-97)<br>(Sienna:98-2006)(Solara99-2008)<br>(Starlet:83-84)(Supra:87-90)<br>(T100:95-98)(Tacoma:96-2004)(Tercel:83-90)                                             |



| Nr./No.  | Bild / Image                                                                      | Verwendung / Application |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>5</b> |  | Acura                    | (CL:97-2002)(Integra:94-2000)<br>(Legend:93-95)(MDX:2001-2011)<br>(RDX:2009-2012)(RL:96-2010)(RSX:2002-2005)<br>(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)(CivicdelSol:93-97)<br>(CR-V:97-2010)(CR-Z:2011)<br>(Element:2003-2010)(Fit:2008-2009)(Insight:2001-2011)<br>(Odyssey:98-2010)(Pilot:2003-2011)<br>(Prelude:99-2001)(Ridgeline:2007-2011)<br>(S2000:2006-2009)                                                                                                                                                                                              |
|          |                                                                                   | Isuzu                    | (Oasis:97)(Rodeo:99-2000)(RodeoSport:2003)                                                                                                                                                                                                                                                                                                                                                                                                 |
|          |                                                                                   | Lexus                    | (ES250:90-91)(ES350:2008-2012)<br>(GS300:93-2003)(GS350:2007-2009)<br>(GS430:2004-2007)<br>(GX470:2004-2005)(IS300:2003)(IS350:2009-2012)<br>(LS430:2001-2003)(LX570:2011-2013)<br>(RX300:99-2006)(RX350:2008-2010)<br>(RX400h:2006-2008)(SC300:92-2010)                                                                                                                                                                                   |
|          |                                                                                   | Mazda                    | (Mazda2:2011)(Mazda5:2008-2010)(Protegé:95-2003)                                                                                                                                                                                                                                                                                                                                                                                           |
|          |                                                                                   | Mercedes                 | (ML-class,W163,W164)                                                                                                                                                                                                                                                                                                                                                                                                                       |
|          |                                                                                   | Mitsubishi               | (Diamante:96-2004)(Eclipse:2000-2010)<br>(Endeavor:2006-2011)(Expo:92-95)<br>(ExpoLRV:92-94)(Galant:94-2011)<br>(Mirage:93-2002)(MonteroSport:97-2003)                                                                                                                                                                                                                                                                                     |
|          |                                                                                   | Plymouth                 | (Colt:92-94)                                                                                                                                                                                                                                                                                                                                                                                                                               |
|          |                                                                                   | Pontiac                  | (Vibe:2003-2010)                                                                                                                                                                                                                                                                                                                                                                                                                           |
|          |                                                                                   | Scion                    | (FR-S:2013)(iQ:2012)(tC:2005-2010)(xA:2006)                                                                                                                                                                                                                                                                                                                                                                                                |
|          |                                                                                   | Subaru                   | (B9Tribeca:2006-2007)(Tribeca:2008-2010)                                                                                                                                                                                                                                                                                                                                                                                                   |
|          |                                                                                   | Suzuki                   | (Aerio:2003-2007)(Esteem:95-2002)<br>(Sidekick:91-98)(Swift:99-2001)<br>(SX4:2007-2009)(Vitara:99-2003)(X-90:96-98)<br>(XL-7:2002-2003)                                                                                                                                                                                                                                                                                                    |
|          |                                                                                   | Toyota                   | (4Runner:69-2011)(Avalon:2005-2010)<br>(Camry:90-91V6w/auto.trans.)<br>(Camry:92-2011)(Celica:90-99)<br>(Corolla:93-2012)(Echo:2001-2005)<br>(FJCruiser:2007-2010)<br>(Highlander:2001-2011)(LandCruiser:2009)<br>(Matrix:2003-2011)<br>(Paseo:92-98)(Prius:2001-2009)<br>(RAV4:96-2003)(Sequoia:2001-2011)<br>(Sienna:2007-2011)(Supra:90-98)<br>(Tacoma:2005-2011)(Tercel:91-98)<br>(Tundra:2000-2011)(Venza:2009-2011)(Yaris:2008-2011) |
|          |                                                                                   | VW                       | (Touareg:2004)                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Nr./No.  | Bild / Image                                                                      | Verwendung / Application |                                                                                                                                                                                                      |
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| <b>6</b> |  | 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)(Skylark)(GrandAm:92-2002)                                                                                                                                                                  |
|          |                                                                                   | Jaguar                   | (All:90-94)(XJ8:98-2001)(XJR:98-2001)<br>(XK8:97-2006)(XKR:2000-2006)<br>(X-Type:2002-2007)                                                                                                          |
|          |                                                                                   | Jeep                     |                                                                                                                                                                                                      |
|          |                                                                                   | LandRover                | (Discovery:89-2004)(RangeRover:88-94)                                                                                                                                                                |
|          |                                                                                   | Mercedes                 | (ML-Class:97-2011)                                                                                                                                                                                   |
|          |                                                                                   | Mercury                  | (Mistique:95-2000)                                                                                                                                                                                   |
|          |                                                                                   | Pontiac                  | (LeMans:88-93)(G3:2009)<br>(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)<br>(L300:2001-2005)(L300-1:2004)(L300-2:2004)<br>(L300-3:2004)(LS:2000)(LS1:2000)(LS2:2000)<br>(LW1:2000)(LW2:2000)<br>(LW200:2001-2003)(LW300:2001-2003)(Vue:2002) |
|          |                                                                                   | Suzuki                   | (Forenza:2004-2008)(Reno:2005-2008)<br>(Swift+:2004)(Verona:2004-2005)                                                                                                                               |

| Nr./No.  | Bild / Image                                                                        | Verwendung / Application |                                                                                                                                                                                   |
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| <b>7</b> |  | Alfa Romeo               | (145-930:94-2001)(146-930:94-2001)<br>(164-164:87-98)(166-936:98)<br>(33-907A:90-94)<br>(33sportwagon-907B:90-94)(GTV-916C:94)<br>(Spider-916S:94-2005)                           |
|          |                                                                                     | Citroën                  | (JumperBox230L:94-2002)(JumperBus230P:94-2002)<br>(JumperPlatform/Chassis230:94-2002)                                                                                             |
|          |                                                                                     | Fiat                     | (CoupeFA/175:93-2000)(Croma-154:85-96)<br>(DucatoBox-230L:94-2002)<br>(DucatoBox-244:2002)<br>(DucatoBus-230:94-2002)(DucatoBus-244Z:2002)<br>(DucatoPlatform/Chassis230:94-2002) |
|          |                                                                                     | Lancia                   | (Deltall-836:93-99)(Kappa-938A:94-2001)<br>(KappaCoupe-838:96-2001)<br>(KappaSW-838B:96-2001)<br>(Thema-834:84-94)(ThemaSW-834:87-94)                                             |
|          |                                                                                     | MiniCooper               | (S:2002-)                                                                                                                                                                         |
|          |                                                                                     | Peugeot                  | (206:99-)(307:2004-)(406:99-)(407:2004-)(807:2004-)<br>(BoxerBox-230L:94-2002)(BoxerBus-230P:94-2002)<br>(Boxerplatform/Chassis-ZCT:94-2002)                                      |
|          |                                                                                     | Renault                  | (All:85-87)(Avantime:2002-)(Espace:2002-)                                                                                                                                         |
|          |                                                                                     | Saab                     | (900:78-93)(9000:86-98)                                                                                                                                                           |
|          |                                                                                     | Sterling                 | (All:87-91)                                                                                                                                                                       |
|          |                                                                                     | Jeep                     |                                                                                                                                                                                   |
|          |                                                                                     | Volvo                    | mit Innengewinde / with female thread                                                                                                                                             |

| Nr./No.  | Bild / Image                                                                      | Verwendung / Application |                                                                                                                                                                                                                                                                                                                                                              |
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| <b>8</b> |  | VW                       | <p>(Vento)(T4)(Passat:90-97)(Beetle)(Sharan)<br/>           (Cabrio:95-2002)(Corrado:90-94)<br/>           (Eurovan:93-2003)<br/>           (Golf:90-99)</p> <p>(90-98: mit Innengewinde am Ausgleichsbehälter, nicht für Passat &amp; Beetle 98)</p> <p>(90-98: with female thread on filler neck of expansion tank, except 98 Passat &amp; New Beetle)</p> |

| Nr./No.  | Bild / Image                                                                       | Verwendung / Application       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>9</b> |  | Audi<br>BMW<br>Porsche<br>SEAT | <p>(A3:2006-2012)(A38P1:2003)(A3 Cabrio:2008)<br/>           (A3Sportback-8PA:2004)(A4:96-2012)<br/>           (A4-8EC,B7:2004-2008)(A4Avant-8ED,B7:2004-2008)<br/>           (A4Quattro:96-2012)(A5:2011-2012)<br/>           (A5Quattro:2008-2012)(A6:98-2012)<br/>           (A6Quattro:98-2011)(A7Quattro:2012)<br/>           (A8Quattro:2004-2010)<br/>           (AllroadQuattro:2001-2005)(Q5:2009-2012)<br/>           (Q7:2007-2012)(R8:2008-2012)<br/>           (RS4:2007-2008)(RS6:2003)(S4:2000-2012)<br/>           (S5:2008-2012)(S6:2002-2011)<br/>           (S8:2007-2009)(TT:2000-2009)(TT-8J3:2006)<br/>           (TT-8N3:98-2006)<br/>           (TTQuattro:2000-2013)<br/>           (TTRoadster-8J9:2007)(TTRoadster8N9:99-2006)</p> <p>(345)</p> <p>(Cayenne)</p> <p>(Altea-5P1:2004)(Cordoba-6K2:99-2002)<br/>           (Cordoba-6L2:2002-2009)(IbizaIII-6K1:99-2002)<br/>           (IbizaIV-6L1:2002-2009)(Leon-1M1:9-2006)<br/>           (Leon1P1:2005)(Toledo-1L:91-99)<br/>           (ToledoII-1M2:99-2006)(Fabia:2006)(Fabia-6Y2:99-2008)<br/>           (FabiaCombi:2007)(FabiaCombi-6Y5:2000-2007)<br/>           (FabiaPraktik:2001-2007)<br/>           (FabiaSaloon-6Y3:99-2007)(Laura1Z3:2004)<br/>           (Octavia1U2:96-2010)(OctaviaCombi-1U5:98-2010)<br/>           (OctaviaCombi-1Z5:2004)(Roomster-5J:2006)<br/>           (Superb-3T4:2008)(Superb-3U4:2002-2008)<br/>           (SuperbEstate:3T5:2009)</p> |

| Nr./No. | Bild / Image                                                                      | Verwendung / Application |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------|-----------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9       |  | VW                       | (Beatle:98-2012)<br>(CaddyIIIBox-2KA,2KH,2CA,2CH:2004)<br>(CaddyIIIEstate-2KB,2KJ,2CB,2CJ:2004)<br>(CC:2009-2013)<br>(Crafter30-35Bus2E:2006)<br>(Crafter30-50Box2E:2006)<br>(Crafter30-50Platform/Chassis2F)(Eos:2007-2012)<br>(Eos-1F7,1F8:2006)(Fox-5Z1,5Z3:2003)(Golf:99-2012)(GolfPlus-5M1,521:2005)<br>(GolfV-1K1:2003-2009)<br>(Golf V Variant(1K5:2007)(GTI:2006-2013)<br>(Jetta:97-2012)<br>(JettaSaloon-1K2:2005-2010)<br>(LT28-35 II Bus-2DM:96-2006)<br>(LT28-46 II Box-2DX0AE:96-2006)<br>(LT28-46 II Platform/Chassis2DX0FE:96-2006)<br>(MultivanMkV-7HM,7HN,7EF,7EM,7EN:2003)<br>(NewBeetle-9C1,1C1:98)<br>(NewBeetleConvertible-1Y7:2002-2010)<br>(Passat:98-2012)(Passat-3B3:2000-2005)<br>(Passat-3C2:2005)(PassatVariant-3B6:2000-2005)(PassatVariant3C5:2005)(Polo-9N:2001)<br>(PoloSaloon:2002)(R32:2008)(Rabbit:2006-2009)(Tiguan:2009)(Touareg:2004-2012)<br>(Touran-1T1,1T2,1T3:2003)<br>(Transporter/CaravelleMKVBus-7HB,7HJ,7EB,7EJ,7EF:2003)<br>(TransporterMKVBox-7HA,7HH,7EA,7EH:2003)<br>(TransporterMKVPlatform/Chassis-7JD,7JE,7JL,7JY,7JZ:2003) |

| Nr./No. | Bild / Image                                                                        | Verwendung / Application |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------|-------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10      |  | BMW                      | (3-E30:82-92)(3-E36:90-98)(3-E46:98-2005)(3-E90:2005)<br>(3Compact-E36:94-2000)(3Compact-E46:2001-2005)<br>(3Convertible-E30:85-93)(3Convertible-E36:93-99)<br>(3Convertible-E46:2000)(3Coupe-E36:92-99)<br>(3Coupe-E46:99)(3Touring-E30:87-94)<br>(3Touring-E36:95-99)(3Touring-E46:99-2005)<br>(3Touring-E91:2005)(5-E28:80-90)(5-E34:87-95)<br>(5-E39:95-2003)(5-E60:2003)<br>(5Touring-E34:91-97)(5touring-E39:97-2004)<br>(7-E23:77-86)(7-E32:86-94)(7-E38:94-2001)<br>(7E65,E66:2001)(8-E31:90-99)(X3-E83:2004)<br>(X3-E53:2000)(Z3-E36:95-2003)<br>(Z3Coupe-E36:97-2003)(Z4-E85:2003)<br>(Z4Coupe-E86:2006)(Z8-E53:2000-2003)<br>(Brilliance3Series-E46:2003-2005)<br>(Brilliance3Series-E90:2004) |
|         |                                                                                     | Land Rover               | (Freelander - LN: 1998) (Range Rover III - LM: 2002)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



| Nr./No.   | Bild / Image                                                                      | Verwendung / Application |                                                                                                                                                                                                                                                                        |
|-----------|-----------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>11</b> |  | Audi<br>VW               | 75-93:<br>(Außengewinde am Behälter / w/male thread on tank)<br>(Golf:83-92) (Cabriolet: 85-93)<br>(Dasher: 80-81) (Fox: 87-93) (Golf: 85-90) (Jetta: 80-90)<br>(Quantum: 80-88) (Golf / Rabbit: 75)<br>(Golf Cabrio / Rabbit Convertible: 80-84)<br>(Scirocco: 75-88) |

| Nr./No.   | Bild / Image                                                                        | Verwendung / Application |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------|-------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>12</b> |  | Caterham<br>Ford         | (Super Seven: 1990-1999)<br>(Cougar: 1998-2001) (Mondeo: 1996-2007) (Mondeo Estate Wagon: 1996-2007)<br>(Transit 260: 2000-2006) (Transit 280: 2000-2006)<br>(Transit 300: 2000-2006)<br>(Transit 330: 2000-2006) (Transit 350: 2000-2006)<br>(Transit 425: 2003-2006)<br>(Transit 430: 2001-2006) (Transit Tourneo: 2000-2006)<br>(Courier III: 1990-1995)<br>(Courier IV: 1995-2001) (Escort 55 IV: 1986-1990)<br>(Escort 55 VI: 1994-2000)<br>(Escort 75 VI: 1994-2000) (Escort IV: 1986-1990)<br>(Escort V: 1990-1996)<br>(Escort VI: 1995-2000) (Fiesta Classic: 1987-1989)<br>(Fiesta II: 1989-1989)<br>(Fiesta III: 1989-1996) (Fiesta IV: 1995-1999)<br>(Fiesta V: 1999-2002)<br>(Fiesta Van II: 1987-1989) (Fiesta Van III: 0989-1996)<br>(Fiesta Van IV: 1995-2002) (Fiesta Van V: 1999-2002)<br>(Fiesta Van VI: 2002-2008) (Fiesta VI: 2002-2008)<br>(Focus I: 1998-2005) (Focus Wagon I: 1998-2005)<br>(Fusion: 2002-2005) (Ka I: 1996-2005)<br>(Granada Scoprío: 1985-1994) (Mondeo I: 1993-1996)<br>(Mondeo II: 1996-1998) (Mondeo Wagon I: 1993-1996)<br>(Mondeo Wagon II: 1996-2000) (Orion II: 1986-1990)<br>(Orion III: 1990-1993) (P100 Sierra: 1989-1994)<br>(Puma I: 1997-2002) (Scoprío I: 1984-1994)<br>(Scoprío II: 1994-1998) (Sierra Cosworth II: 1987-1993)<br>(Sierra I: 1984-1987) (Sierrall: 1987-1993)<br>(Sierra Sapphire II: 1987-1993) (Streetka I: 2003-2005)<br>(Transit 100: 1994-1999) (Transit 120: 1994-1999)<br>(Transit 150: 1994-1999)<br>(Transit 190: 1994-1999) (Transit Connect: 2002-) |

| Nr./No.   | Bild / Image                                                                      | Verwendung / Application |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|-----------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>12</b> |  | Opel                     | (Agila:2000-2008)(AsconaB:78-81)<br>(AsconaC:81-88)(AstraCabrioF:93-2001)<br>(AstraCabrioG:2001-2005)(AstraClassicF:98-2002)<br>(AstraCoupeG:99-2005)(AstraF:91-98)<br>(AstraG:98-2005)(AstraH:2004-2005)<br>(AstraVanF:91-98)(AstraVanG:98-2004)<br>(Calibra:89-98)(ComboCorsaB:92-2001)<br>(ComboCorsaC:2001-2004)(CorsaA:82-93)<br>(CorsaB:93-2000)(CorsaC:2000-2006)<br>(CorsaVanA:82-94)(CorsaVanB:94-2001)<br>(CorsaVanC:2000-2003)(FronteraA:91-98)<br>(KadettD:79-84)(KadettE:84-92)(KadettVanE:84-92)<br>(MantaA:74-75)(MantaB:75-88)(Meriva:2003-2005)<br>(Monza:81-87)(OmegaA:86-94)(OmegaB:94-2003)<br>(SenatorA:81-87)(SenatorB:87-93)(TigraA:94-2001)<br>(TigraB:2004)(VectraA:88-95)(VectraB:95-2003)<br>(ZafiraA:99-2005)(ZafiraVan:2002-2003) |
|           |                                                                                   | Opel<br>Vauxhall         | (AstraCabrioIII:91-2001)(AstraCabrioIV:2001-2007)<br>(AstraCoupeIV:99-2005)(Astral:79-84)(Astrall:84-91)<br>(AstrallII:91-98)(AstralV:98-2005)(AstraVanIII:91-96)<br>(AstraVanIV:98-2005)(Astramax:85-91)<br>(AstravanI82-84)(AstravanII84-91)<br>(Belmont:86-91)(Calibra:90-98)(Carlton:83-94)<br>(CavalierII:81-88)(CavalierIII:88-95)(Combo:93-2004)<br>(ComboCrewVan:2001-2006)(Corsal:93-2000)<br>(Corsall:2000-2006)(CorsaVanI:93-2001)<br>(CorsaVanII:2001-2006)(FronteraA:91-98)(Meriva:82-93)<br>(Nova:82-93)(NovaVan:90-93)(Omega:94-2003)<br>(Senator:87-93)(Tigra:94-2004)(Vectral:99-2005)<br>(ZafiraA:99-2005)(ZafiraB:2005-2007)                                                                                                                |
|           |                                                                                   | Mazda                    | (2:2002-2007)(121:96-2002)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           |                                                                                   | Saab                     | (900II:93-98)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|           |                                                                                   | Škoda                    | (Favorit:89-95)(FavoritForman:93-95)<br>(Felicia-6U1:94-2000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|           |                                                                                   | Ssangyong                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|           |                                                                                   | LandRover                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Nr./No.   | Bild / Image                                                                        | Verwendung / Application |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|-------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>13</b> |  | Mercedes                 | (300SE:92-93)(400SE:92)(400SEL:93)(500SEC:93)<br>(500SEL:92-93)(500SL:00-93)(600SEC:93)<br>(600SEL:92-93)(600SL:93)(C230:2002)<br>(C240:2001-2005)(C280:94-2007)(C300:2008-2009)<br>(C32AMG:2002-2004)(C320:2001-2005)(C350:2008)<br>(C36AMG:95-97)(C43AMG:98-2000)<br>(CL500:98-2006)(CL55AMG:2001-2002)(CL600:98-2006)<br>(CL65AMG:2005-2006)(CLK320:98-2005)<br>(CLK430:99-2003)(CLK500:2003-2005)<br>(CLK55AMG:2001-2005)(E300:96-97)(E320:96-2005)<br>(E350:2006-2009)(E420:97)(E430:98-2002)<br>(E500:2003-2006)(E55AMG:99-2002)<br>(E550:2009)(G500:2002-2005)(G55AMG:2003-2005)<br>(GL450:2007-2008)(ML350:2006-2008)<br>(ML500:2006-2007)(ML550:2008-2009)<br>(S320:94-99)(S350:94-2006)(S420:94-99)<br>(S500:94-2006)(S55AMG:2001-2006)<br>(S600:94-2006)(S65AMG:2006)(SL320:94-97)<br>(SL500:94-98)(SL600:94-2002)(SLK280:2006-2008)<br>(SLK32AMG:2002-2004)(SLK320:2001-2004)<br>(SLK350:2006-2008)(SLK55AMG:2008) |

| Nr./No.   | Bild / Image                                                                      | Verwendung / Application |                   |
|-----------|-----------------------------------------------------------------------------------|--------------------------|-------------------|
| <b>13</b> |  | Chrysler                 | (Crossfire:2004-) |

| Nr./No.   | Bild / Image                                                                       | Verwendung / Application |                                                                                                                          |
|-----------|------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>14</b> |  | Ford                     | (Mondeo: 2000-2007) (Focus: 2000-2005)<br>(C-MAX03) (Contour: 1995-2000)<br>Mercury (Cougar: 1999) (Mystique: 1995-1999) |

| Nr./No.   | Bild / Image                                                                        | Verwendung / Application |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|-------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>15</b> |  | Ford<br>Internation.     | (C-Max: (2007-2012) (C-Max II: 2010)<br>(Fiesta V JH, JD: 2001) (Fiesta Van: 2009)<br>(Fiesta VI: 2009) (Fiesta VI: 2008)<br>(Focus C-Max: 2003-2007) (Focus II DA: 2004)<br>(Focus II Convertible: 2006) (Focus II Estate DAW: 2004)<br>(Focus Saloon DA: 2005)<br>(Focus II Station Wagon DAW: 2004) (Focus III: 2011)<br>(Focus III Saloon: 2011)<br>(Focus III Turnier: 2011) (Galaxy: 2006)<br>(Grand C-Max: 2010) (Kuga: 2008)<br>(Mondeo IV: 2007)(Mondeo IV Saloon: 2007)<br>(Mondeo IV Turnier: 2007)<br>(Ranger: 2011) (S-Max: 2006) (Transit Bus: 2006)<br>(Transit Flatbed Chassis: 2006)<br>(Transit Tourneo: 2006) |

| Nr./No.   | Bild / Image                                                                      | Verwendung / Application |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|-----------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>15</b> |  | Ford Europa              | (B-Max:2012)(C-Max:2007-2012)(Fiesta:2001-2013)<br>(FiestaVan:2008-2010)(Focus:2004-2013)<br>(FocusCC:2006-2011)(FocusC-Max:2003-2007)<br>(FocusEstateWagon:2004-2013)(FocusVan:2005-2013)<br>(Galaxy:2006-2011)(GalaxyVan:2006-2010)<br>(GrandC-Max:2010-2012)(Kuga:2008-2012)<br>(Mondeo:2007-2012)(MondeoEstateWagon:2007-2011)<br>(S-Max:2006-2011)(Transit250:2011)<br>(Transit260:2006)(Transit280:2006)(Transit300:2006)<br>(Transit330:2006-2013)(Transit350:2006-2013)<br>(Transit370:2006)(Transit410:2006)<br>(Transit430:2006-2013)(Transit460:2006)<br>(TransitCustom250:2012)(TransitCustom270:2012)<br>(TransitCustom290:2012)<br>(TransitCustom300:2012)(TransitCustom310:2012)<br>(TransitCustom330:2012)<br>(TransitTourneo:2012)(TransitTourneoCustom:2012) |
|           |                                                                                   | Ford USA                 | (Ranger: 2011)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|           |                                                                                   | Ford Australia           | (Fiesta WS: 2008) (Fiesta Hatchback WT: 2010)<br>(Fiesta Saloon WT: 2010)<br>(Focus Hatchback LT: 2005)<br>(Focus Hatchback LV: 2009-2011)<br>(Focus Hatchback LT: 2005)<br>(Focus Saloon LS, LT: 2005)<br>(Focus Saloon LV: 2009-2011)<br>(Mondeo Hatchback MA, MB: 2007)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           |                                                                                   | Land Rover               | (Freelander 2 FA: 2006)<br>(Range Rover Evoque: 2011)<br>(Freelander: 2006-2013) (LR2: 2006)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|           |                                                                                   | Mazda                    | (2: 2007) (3: 2003-2013) (5: 2010) (2 DE: 2007)<br>(3 BK: 2003) (3 BL: 2009)<br>(3 Saloon BK: 2000-2009) (3 Saloon BL: 2009)<br>(5 CW: 2010) (Axela: 2003) (BT50: 2011)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|           |                                                                                   | Volvo                    | (C30: 2006-2012) (C70: 2005-2011)<br>(C70 II Convertible: 2006) (S40: 2004-2010)<br>(S40 II MS: 2004) (S60: 2010-2013) (S60 II: 2010)<br>(S80: 2006-2012) (S80 II AS: 2006)<br>(V40: 2012) (V40 Cross Country: 2012)<br>(V40 Hatchback: 2012) (V50: 2003-2012)<br>(V50 NW: 2004) (V60: 2010-2013) (V70: 2007-2012)<br>(V70 III Estate: 2007) (XC60: 2008)<br>(XC70: 2007-2012) (XC70 Cross Country: 2007-2011)<br>(XC70 II: 2007)                                                                                                                                                                                                                                                                                                                                              |