

**CHARGE WEIGHTS ARE A GUIDE ONLY  
NO RESPOSIBILITY WILL BE HELD**

| <b>ALFA ROMEO</b>                              | <b>Year</b> | <b>Gas</b> | <b>Charge</b> | <b>Oil</b> | <b>Charge</b> |
|--|-------------|------------|---------------|------------|---------------|
| 33 D-Turbo                                     | 86-94       | R12        | 900           | SW100      |               |
|  | 33 83-94    | R12        | 1150          | SW100      | 135           |
|  | 33 89-92    | R134a      | 450-475       | SW100      |               |
|  | 90 85-88    | R134a      | 710-750       | SW100      |               |
| 145/146 1,3/1,4/1,6/1,7                        | 1994-97     | R134a      | 700           | PAG/ND8    | 225-255       |
| 145/146 Twin spark                             | 1996-01     | R134a      | 700           | PAG2/ND9   | 130-170       |
| 145/146 D-Turbo                                | 1994-01     | R134a      | 700           | PAG2/ND9   | 221-251       |
| 145/146 1,9 JTD                                | 1998-01     | R134a      | <b>10</b>     | PAG2/ND9   | 130           |
| 147 1.6i/1.9JTD/2.0i/1.9JTD 16V/3.2i           | 2001-08     | R134a      | 525-575       | PAG/ND8    | 135           |
|  | 75 85-93    | R12        | 900           | SW100      | 135           |
|  | 155 1992-93 | R12        | 950           | SW100      | 135           |
|  | 155 1994-97 | R134a      | 700           | PAG/ND8    | 225-255       |
| 155 1,6/1,8/2,0 16V                            | 1995-97     | R134a      | 700           | PAG2/ND9   | 260-320       |
| 155 1,9 Diesel                                 | 1993-97     | R134a      | 700           | PAG2/ND9   | 221-251       |
| 155 2,5 Diesel                                 | 1993-97     | R134a      | 700           | PAG2/ND9   | 240           |
|  | 156 1997-02 | R134a      | 650           | PAG2/ND9   | 145           |
| 156 1,9 JTD                                    | 1997-02     | R134a      | 650           | PAG2/ND9   | 130           |
| 156 2,4 JTD                                    | 1997-02     | R134a      | 650           | PAG2/ND9   | 150           |
| 156 Facelift                                   | 2002-09     | R134a      | 500           | PAG/ND8    | 130           |
| 156 Facelift 2.4JTD 20V                        | 2003-06     | R134a      | 550           | PAG2/ND9   | 150           |
| 156 Facelift 2.4 JTD                           | 2002-03     | R134a      | 500           | PAG2/ND9   | 150           |
|  | 159 2005-08 | R134a      | 550           | PAG/ND8    |               |
|  | 164 1987-93 | R12        | 1250          | SW100      | <b>10</b>     |
|  | 164 1994-98 | R134a      | 1200          | PAG2/ND9   | 120-150       |
|  | 166 1998-01 | R134a      | 700           | PAG/ND8    | 135           |
|  | 166 2001-07 | R134a      | 650           | PAG/ND8    | 135           |
| Sprint   | 1987-91     | R12        | 1150          | SW100      | <b>10</b>     |
| Spider/GTV 1,8                                 | 1998-6/99   | R134a      | 600-700       | PAG/ND8    | 260-320       |
| Spider/GTV 1.8                                 | 6/99-01     | R134a      | 550-600       | PAG/ND8    | 260-320       |
| Spider/GTV 2,0                                 | 1996-6/99   | R134a      | 650-750       | PAG2/ND9   | 260-320       |
| Spider/GTV 2,0                                 | 6/99-03     | R134a      | 550-600       | PAG2/ND9   | 260-320       |
| Spider 3.0 V6/GTV 2.0 Turbo                    | 1996-6/99   | R134a      | 650-750       | PAG/ND8    | 225-255       |
| Spider 3.0 V6/GTV 2.0 Turbo                    | 6/99-01     | R134a      | 550-600       | PAG/ND8    | 225-255       |
| GT Coupe 1.9JTD                                | 2003-06     | R134a      | 600           | PAG/ND8    |               |
| GTV 3.0 V6 24V                                 | 97-6/99     | R134a      | 650-750       | PAG/ND8    | 230-250       |
| GTV 3.0 V6 24V                                 | 6/99-04     | R134a      | 550-600       | PAG/ND8    | 230-250       |
| <b>ASTON MARTIN</b>                            |             |            |               |            |               |
| DB7 Vantage 3.2                                | 1994-04     | R134a      | 870-930       | PAG/ND8    |               |
| <b>AUDI</b>                                    |             |            |               |            |               |
| Allroad  | 00-06       | R134a      | 750-850       | PAG/ND8    | 240           |
| A2 1.2TDI /1.4/1.4TDI/1.6FSI                   | 2000-01     | R134a      | 500-550       | PAG/ND8    | 180           |
| A2 1.2TDI /1.4/1.4TDI/1.6FSI                   | 2001-06     | R134a      | 480-530       | PAG/ND8    | 180           |
| A3/S3 (8L1)                                    | 1996-03     | R134a      | 750-800       | PAG/ND8    | 120-150       |
| A3 (8P1) 1.6i/1.6FSI/1.9TDI/2.0FSI/2.0TDI/3.2i | 05-03-      | R134a      | 500-550       | PAG/ND8    | 170-190       |
| A3 with PXE 16 Sanden compressor               | 05-03-      | R134a      | 500-550       | PAG/ND8    | 100-120       |
| 80/90/Coupe                                    | 1986-91     | R12        | 1000-1100     | xxx        | 280-320       |
| 80/Coupe/Cabrio                                | 91-09.92    | R12        | 650-750       | xxx        | 280-320       |
| 80/Coupe/Cabrio                                | 10.92-00    | R134a      | 650-700       | PAG/ND8    | 250-300       |
| 80/Coupe/Cabrio 2,3                            | 91-09.92    | R12        | 850-950       | xxx        | 280-320       |
| 80/Coupe/Cabrio 2,3                            | 10.92-94    | R134a      | 750-800       | PAG/ND8    | 250-300       |
| Avant RS 2                                     | 1994-95     | R134a      | 750-800       | PAG/ND8    | 250-300       |
| Coupe S2                                       | 92-09.92    | R12        | 850-950       | xxx        | 280-320       |
| Coupe S2 - Zexel/Denso comp.                   | 10.92-00    | R134a      | 750-800       | PAG/ND8    | 250-300       |
| A4/S4 - Zexel/Denso Compressor                 | 94-11.97    | R134a      | 650-700       | PAG/ND8    | 250-300       |
| A4/S4 - Zexel/Denso Condenser                  | 11.97-01    | R134a      | 700-750       | PAG/ND8    | 250-300       |
| A4/S4 - Zexe/Denso Compressor                  | 11.98-12.98 | R134a      | 550-600       | PAG/ND8    | 250-300       |
| A4 (8E, B6) petrol/diesel                      | 11/00-11/04 | R134a      | 480-530       | PAG/ND8    | 170-190       |
| A4   | 11/04-      | R134a      | 450-550       | PAG/ND8    |               |
| 100/200  | 08.83-91    | R12        | 1050-1150     | xxx        | 280-320       |
| 100/A6/S4/S6                                   | 91-09.92    | R12        | 1050-1150     | xxx        | 280-320       |

|                                   |             |       |           |         |         |
|-----------------------------------|-------------|-------|-----------|---------|---------|
| 100/A6/S4/S6 Zexel/Denso comp     | 10.92-97    | R134a | 750-800   | PAG/ND8 | 250-300 |
| A5                                | Pre 2000    | R134a | 600       |         |         |
| A6 - Zexel/Denso comp             | 97-11.97    | R134a | 800-850   | PAG/ND8 | 250-300 |
| A6 - Zexel/Denso comp             | 11.97-08.98 | R134a | 850-900   | PAG/ND8 | 250-300 |
| A6 - Zexel/Denso comp <b>13</b>   | 08.98-04.99 | R134a | 750-800   | PAG/ND8 | 250-300 |
| A6 - Zexel/Denso comp <b>3</b>    | 10.98-12.98 | R134a | 550-600   | PAG/ND8 | 250-300 |
| A6 - Zexel/Denso comp <b>12</b>   | 04.99-02    | R134a | 650-700   | PAG/ND8 | 250-300 |
| A6 V8 - Zexel/Denso comp          | 98-03.99    | R134a | 550-600   | PAG/ND8 | 250-300 |
| A6 V8 - Zexel/Denso comp          | 03.99-02    | R134a | 650-700   | PAG/ND8 | 250-300 |
| A6 1.8i/1.8T1.9TDI/2.4i/2.7T/2.8i | 4/99-04/04  | R134a | 650-700   | PAG/ND8 | 250-300 |
| A6 1.9TDI/2.0i/2.5TDI/3.0i        | 4/99-4/04   | R134a | 550-600   | PAG/ND8 | 250-300 |
| A6                                | 4/04-       | R134a | 510-550   | PAG/ND8 | 120-140 |
| A8 - Zexel/Denso comp             | 94-11.97    | R134a | 750-800   | PAG/ND8 | 250-300 |
| A8/S8 - Zexel/Denso comp          | 11.97-02    | R134a | 800-850   | PAG/ND8 | 250-300 |
| A8 Denso comp - red oriface       | 2-Apr       | R134a | 550-650   | PAG/ND8 | 200     |
| TT                                | 1998-06     | R134a | 750-800   | PAG/ND8 | 120-150 |
| Quattro V6                        | 2001-2006   | R134a | 650-700   | PAG/ND8 |         |
| Quattro V8                        | 98-06       | R134a | 750-800   | PAG/ND8 |         |
| Q7                                | 2005-08     | R134a | 700-750   | PAG/ND8 | 130-160 |
| Q7 Dual Air                       | 2005-08     | R134a | 1050-1100 | PAG/ND8 | 230-260 |
| R8                                | Pre 2000    | R134a | 650       | PAG/ND8 |         |
| RS4                               | 2006        | R134a | 440+-20   |         |         |

## BOBCAT

|        |  |       |     |  |  |
|--------|--|-------|-----|--|--|
| Bobcat |  | R134a | 700 |  |  |
|--------|--|-------|-----|--|--|

## BMW

|   |           |       |           |          |           |
|---|-----------|-------|-----------|----------|-----------|
| 1 Series (E87)  | 2004-06   | R134a | 500 +-15  | PAG/ND8  |           |
| 3 Series (E30) - piston type comp <b>15</b>           | 1986-93   | R12   | 950-1000  | SW100    | 300       |
| Impeller type comp <b>16</b>                          | 1986-93   | R12   | 950-1000  | SW100    | 200       |
| 3 Series (E30)  | 1992-93   | R134a | 775-825   | PAG/ND8  | <b>10</b> |
| M3 (E30) - piston type comp <b>15</b>                 | 1987-91   | R12   | 850-900   | SW100    | 300       |
| Impeller type comp <b>16</b>                          | 1987-91   | R12   | 850-900   | SW100    | 200       |
| 3 Series (E36)  | 1991-93   | R12   | 1175-1225 | SW100    | 200       |
| 3 Series/Compact (E36) - Denso comp <b>1</b>          | 1993-01   | R134a | 975-1025  | PAG/ND8  | 100-140   |
| Denso comp <b>2</b>                                   | 1993-01   | R134a | 800-850   | xxx      | 100-140   |
| Seiko comp <b>1</b>                                   | 1993-01   | R134a | 975-1025  | xxx      | 140-160   |
| Seiko comp <b>2</b>                                   | 1993-01   | R134a | 800-850   | xxx      | 140-160   |
| 3 Series (E46) - Seiko comp                           | 1998-04   | R134a | 715-765   | xxx      | 140-160   |
| 5 Series (E34) - Piston type comp <b>15</b>           | 1987-93   | R12   | 1900-1950 | SW100    | 300       |
| Impeller type comp <b>16</b>                          | 1987-93   | R12   | 1900-1950 | SW100    | 200       |
| M5/524td/525td/tds (E34) - piston type comp <b>15</b> | 1987-93   | R12   | 1475-1525 | SW100    | 300       |
| impeller type comp <b>16</b>                          | 1987-93   | R12   | 1475-1525 | SW100    | 200       |
| 5 Series (E34) - Denso comp <b>1</b>                  | 1993-96   | R134a | 1525-1575 | PAG/ND8  | 160-190   |
| Denso comp <b>2</b>                                   | 1993-96   | R134a | 1450      | PAG/ND8  | 160-190   |
| Seiko comp <b>1</b>                                   | 1993-96   | R134a | 1525-1575 | PAG2/ND9 | 160-190   |
| Seiko comp <b>2</b>                                   | 1993-96   | R134a | 1450      | PAG2/ND9 | 160-190   |
| 5 Series (E39) - Seiko comp                           | 96-09.98  | R134a | 1200-1250 | PAG2/ND9 | <b>10</b> |
| 5 Series (E39) - Seiko comp                           | 09.89-02  | R134a | 740-760   | xxx      | <b>10</b> |
| 5 Series E60/E61                                      | 7/2003-06 | R134a | 800       |          |           |
| 252td/tds (E39) - Seiko comp                          | 96-09.98  | R134a | 1185-1235 | xxx      | <b>10</b> |
| 525td/tds (E39) - Seiko comp                          | 09.98-01  | R134a | 1290-1310 | xxx      | <b>10</b> |
| 525d/530d (E39) - Seiko comp                          | 1998-02   | R134a | 670-690   | xxx      | <b>10</b> |
| 6 Series E63/E64                                      | 1/04/2006 | R134a | 800-820   |          |           |
| 7 Series (E32) - drum type comp <b>15</b>             | 1986-93   | R12   | 1900-1950 | xxx      | 300       |
| impeller type comp <b>16</b>                          | 1986-93   | R12   | 1900-1950 | xxx      | 200       |
| drum type comp <b>15 14</b>                           | 1986-93   | R12   | 2050-2100 | xxx      | 300       |
| impeller type comp <b>16 14</b>                       | 1986-93   | R12   | 2050-2100 | xxx      | 200       |
| 7 Series (E32) - Denso comp                           | 1993-94   | R134a | 1525-1575 | xxx      | 160-190   |
| Seiko comp  | 1993-94   | R134a | 1525-1275 | xxx      | 160-200   |
| Denso comp <b>14</b>                                  | 1993-94   | R134a | 1675-1725 | xxx      | 180-210   |
| Seiko comp <b>14</b>                                  | 1993-94   | R134a | 1675-1725 | xxx      | 160-200   |
| 7 Series (E38) - Seiko comp                           | 94-09.98  | R134a | 1185-1235 | xxx      | <b>10</b> |
| 7 Series (E38) - Seiko comp                           | 09.98-02  | R134a | 670-690   | xxx      | <b>10</b> |

|                                  |         |       |           |     |         |
|----------------------------------|---------|-------|-----------|-----|---------|
| 7 Series E65                     | 2002-05 | R134a | 800-820   |     |         |
| 750iL (E38) - Seiko comp         | 1994-02 | R134a | 1245-1295 | xxx | 10      |
| 14 Seiko comp                    | 1994-02 | R134a | 1375-1425 | xxx | 10      |
| 725 tds (E38) - Seiko comp       | 1996-02 | R134a | 1185-1235 | xxx | 10      |
| 8 Series (E31)                   | 1990-93 | R12   | 1900-1950 | xxx | 10      |
| 8 Series (E31) - Denso comp      | 1993-99 | R134a | 1525-1575 | xxx | 160-190 |
| Seiko comp                       | 1993-99 | R134a | 1525-1575 | xxx | 160-200 |
| Z3 - Denso comp 1                | 1997-02 | R134a | 975-1025  | xxx | 100-140 |
| Denso comp 2                     | 1997-02 | R134a | 800-850   | xxx | 100-140 |
| Seiko comp 1                     | 1997-02 | R134a | 975-1025  | xxx | 140-160 |
| Seiko comp 2                     | 1997-02 | R134a | 800-850   | xxx | 140-160 |
| Z4 E85                           | 2003-06 | R134a | 740+-15   |     |         |
| Z8 S62                           | 2000-04 | R134a | 685-735   |     |         |
| X5                               | 99-05   | R134a | 440 +-15  |     |         |
| X3 E83 2.0d/3.0d M47/M57         | 2004-07 | R134a | 670-690   |     |         |
| X3 E83 2.0d/2.5i/3.0d M54/N46    | 2004-07 | R134a | 730-750   |     |         |
| Mini one/cooper/cooper s R50/R53 | 2001-08 | R134a | 405-425   |     |         |

## CHEVROLET

|                       |           |      |       |     |  |
|-----------------------|-----------|------|-------|-----|--|
| Silverado 4x4 Utility | Front a/c | 2006 | R134a | 726 |  |
|                       | Rear A/c  | 2006 | R134a | 113 |  |

## CHRYSLER

|                          |         |       |           |          |         |
|--------------------------|---------|-------|-----------|----------|---------|
| 300C                     | 2004-06 | R134a | 740       | PAG/ND8  | 180     |
| Crossfire/roadster       | 2003-06 | R134a | 850       | PAG/ND8  | 130     |
| Neon                     | 1995-99 | R134a | 821       | PAG/ND8  | 140     |
| Neon II                  | 1999-06 | R134a | 850       | PAG/ND8  | 200     |
| PT Cruiser               | 2003-05 | R134a | 510       |          |         |
| PT Cruiser               | 2000-02 | R134a | 709       | PAG/ND8  | 160     |
| Voyager                  | 1994-00 | R134a | 910-960   | PAG/ND8  | 150     |
| Voyager Dual             | 1994-02 | R134a | 1300-1450 | PAG/ND8  | 220     |
| Voyager petrol/diesel    | 2001-03 | R134a | 960       |          |         |
| Voyager petrol with rear | 2001-03 | R134a | 1310      |          |         |
| Voyager petrol           | 2003-06 | R134a | 880       |          |         |
| Voyager petrol with rear | 2003-06 | R134a | 1220      |          |         |
| Voyager Diesel           | 2003-06 | R134a | 790       |          |         |
| Cherokee                 | 1992-93 | R12   | 1100      | xxx      | 136     |
| Wrangler/Cherokee        | 1994-96 | R134a | 900       | PAG2/ND9 | 240     |
| Wrangler/Cherokee        | 1997-01 | R134a | 567       | PAG2/ND9 | 240     |
| Grand Cherokee           | 1993-96 | R134a | 795       | PAG/ND8  | 230     |
| Grand Cherokee           | 1997-02 | R134a | 737-800   | PAG/ND8  | 220-230 |
| Grand Cherokee           | 2005-   | R134a | 680       | PAG/ND8  | 130     |

## CITROEN

|                                |          |       |          |          |     |
|--------------------------------|----------|-------|----------|----------|-----|
| AX                             | 1994-97  | R134a | 600-650  | PAG2/ND9 | 135 |
| Berlingo                       | 1996-02  | R134a | 850-900  | PAG/ND8  | 135 |
| Berlingo Diesel                | 1996-02  | R134a | 750-800  | PAG/ND8  | 135 |
| BX                             | 1987-94  | R12   | 1000     | xxx      | 135 |
| BX 1,9,Gti 16V - eng/mot XU9J4 | 1987-93  | R12   | 800      | xxx      | 135 |
| BX 1,7D Turbo                  | 1988-94  | R12   | 800      | xxx      | 135 |
| C1                             | 2005-08  | R134a | 480      | PAG/ND8  | 80  |
| C2                             | 2003-08  | R134a | 575-625  | PAG/ND8  | 135 |
| C3                             | 2002-08  | R134a | 600-650  | PAG/ND8  | 135 |
| C4                             | 2004-08  | R134a | 425-475  | PAG/ND8  | 135 |
| C5 2,0 HDi                     | 2001-06  | R134a | 650-700  | PAG2/ND9 | 165 |
| C5 1.8/2.0i/3.0i               | 2001-06  | R134a | 650-700  | PAG/ND8  | 135 |
| Saxo                           | 96-03.96 | R134a | 575-625  | PAG/ND8  | 135 |
| Saxo                           | 04.96-02 | R134a | 750-800  | PAG/ND8  | 135 |
| Synergie/Evasion               | 1994-02  | R134a | 950-1000 | PAG/ND8  | 135 |
| Xantia - Sanden SD7H15 comp    | 1993-01  | R134a | 750-800  | PAG2/ND9 | 135 |
| Sanden SD7V16 comp 3           | 1993-01  | R134a | 850-900  | PAG/ND8  | 135 |
| Sanden SD7V16 comp 4           | 1993-01  | R134a | 950-1000 | PAG/ND8  | 135 |
| Xantia 3,0                     | 1997-01  | R134a | 725      | PAG/ND8  | 135 |

|                        |                    |       |           |          |         |
|------------------------|--------------------|-------|-----------|----------|---------|
| Xantia 1,9D/1,9D Turbo | 02.96-01           | R134a | 800-850   | PAG2/ND9 | 250-280 |
| XM                     | 89-09.93           | R12   | 1000-1100 | xxx      | 135     |
| XM 2,0                 | 10.93-96           | R134a | 700-750   | PAG2/ND9 | 135     |
| XM 2,0                 | 1996-01            | R134a | 700-750   | PAG/ND8  | 135     |
| XM V6                  | 10.93-01           | R134a | 700-750   | PAG/ND8  | 135     |
| XM 2,1/2,2 Diesel      | 10.93-96           | R134a | 700-750   | PAG2/ND9 | 135     |
| XM 2,1/2,2 Diesel      | 1996-01            | R134a | 700-750   | PAG/ND8  | 135     |
| XM 2,5 Diesel          | 1994-96            | R134a | 800-850   | PAG2/ND9 | 135     |
| XM 2,5 Diesel          | 1996-01            | R134a | 800-850   | PAG/ND8  | 135     |
| Xsara Picasso          | 1999-02            | R134a | 625-725   | PAG/ND8  | 135     |
| Xsara                  | 1997-02            | R134a | 950-1000  | PAG/ND8  | 135     |
| Xsara Diesel           | 1997-02            | R134a | 850-900   | PAG/ND8  | 120-150 |
| Xsara                  | 2000-06            | R134a | 540-590   | PAG/ND8  | 250-280 |
| Dispatch/Jumpy         | 1995-02            | R134a | 950-1000  | PAG/ND8  | 135     |
| Relay/Jumper           | 94-09.96           | R134a | 950-1050  | PAG2/ND9 | 135     |
|                        | <b>14</b> 94-09.96 | R134a | 1150-1250 | PAG2/ND9 | 135     |
| Relay/Jumper           | 10.96-02           | R134a | 750-850   | PAG2/ND9 | 135     |
|                        | <b>14</b> 10.96-02 | R134a | 950-1050  | PAG2/ND9 | 135     |
| ZX -eng/mot TU         | 1991-93            | R12   | 875-925   | xxx      | 135     |
| ZX -eng/mot XU         | 1991-93            | R12   | 975-1025  | xxx      | 135     |
| ZX                     | 1993-98            | R134a | 900-950   | PAG2/ND9 | 135     |

## DAEWOO

|                  |         |       |          |          |           |
|------------------|---------|-------|----------|----------|-----------|
| Matiz            | 1998-05 | R134a | 525+-25  | PAG/ND8  | 150       |
| Nexia            | 1995-97 | R134a | 710-750  | PAG2/ND9 | 240       |
| Lanos            | 1997-02 | R134a | 700-740  | PAG2/ND9 | 265       |
| Lanos            | 2003-07 | R134a | 720 +-25 | PAG2/ND9 |           |
| Espero           | 1995-97 | R134a | 710-750  | PAG2/ND9 | 240       |
| Nubira           | 1997-02 | R134a | 730-770  | PAG2/ND9 | 165       |
| Leganza          | 1997-02 | R134a | 810-850  | PAG2/ND9 | 165       |
| Tacuma/Rezzo RHD | 2001-02 | R134a | 800-840  | PAG2/ND9 | 220       |
| Tacuma/Rezzo LHD | 2001-02 | R134a | 730-770  | PAG2/ND9 | 220       |
| Korando/Musso    | 1996-02 | R134a | 650-750  | PAG2/ND9 | <b>10</b> |

## DAIHATSU

|                             |         |       |         |  |  |
|-----------------------------|---------|-------|---------|--|--|
| Applause                    | 1997-03 | R134a | 450+-30 |  |  |
| Rocky F73/F78 / Feroza F300 | 1993-03 | R134a | 500-600 |  |  |
| Terios J100                 | 97-01   | R134a | 600+-20 |  |  |
| Terios J100/J102            | 9/98-03 | R134a | 370-430 |  |  |
| Sirion                      | 98-05   | R134a | 380+-20 |  |  |
| Sirion                      | 2005-   | R134a | 270-330 |  |  |
| YRV                         | 2001-07 | R134a | 390+-20 |  |  |

## DODGE

|                      |      |       |     |  |  |
|----------------------|------|-------|-----|--|--|
| Dodge Ram 5.7 Hemi   | 2005 | R134a | 728 |  |  |
| Dodge Rad 5.9 Diesel | 2005 | R134a | 850 |  |  |

## FIAT

|                           |          |       |         |          |         |
|---------------------------|----------|-------|---------|----------|---------|
| Cinquecento               | 1991-97  | R134a | 700     | PAG/ND8  | 100     |
| Cinquecento Sporting      | 1994-98  | R134a | 550     | PAG/ND8  | 100     |
| Seicento                  | 1997-02  | R134a | 475-525 | PAG/ND8  | 100     |
| Punto                     | 1993-99  | R134a | 650-700 | PAG2/ND9 | 130-170 |
| Punto                     | 1999-03  | R134a | 525-575 | PAG/ND8  | 60-100  |
| 1,8 16V                   | 1999-03  | R134a | 525-575 | PAG2/ND9 | 60-100  |
| Punto 1.3JTD              | 06/2003- | R134a | 500     | PAG/ND8  | 130     |
| Punto 1.2/1.9D            | 06/2003- | R134a | 525-575 | PAG/ND8  | 130     |
| Tipo/Tempra - Sankyo comp | 1999-02  | R12   | 850-950 | xxx      | 135     |
| Harrison V5 comp          | 1987-93  | R12   | 850-950 | xxx      | 236     |
| Tipo/Tempra - Sanden comp | 1987-93  | R134a | 730     | PAG/ND8  | 140     |
| Harrison V5 comp          | 1994-97  | R134a | 730     | PAG2/ND9 | 263     |
| Bravo/Brava - Denso comp  | 1994-97  | R134a | 600-650 | PAG2/ND9 | 140-180 |
| Harrison V5 comp          | 1995-02  | R134a | 600-650 | PAG2/ND9 | 236     |
| Bravo/Brava 1,9 JTD       | 1998-02  | R134a | 625-675 | PAG/ND8  | 60-100  |
| Marea/Marengo             | 1996-02  | R134a | 600     | PAG2/ND9 | 130-170 |

|                                    |          |       |          |          |         |
|------------------------------------|----------|-------|----------|----------|---------|
| Croma                              | 1994-97  | R134a | 100      | PAG2/ND9 | 135     |
| Croma                              | 2005-08  | R134a | 700-760  | PAG/ND8  | 120     |
| Barchetta                          | 1996-02  | R134a | 600      | PAG2/ND9 | 140-180 |
| Coupe 1,8                          | 1996-00  | R134a | 740      | PAG2/ND9 | 140-180 |
| Coupe 16V                          | 1994-97  | R134a | 720-745  | PAG2/ND9 | 135     |
| Coupe 20V                          | 1996-00  | R134a | 500      | PAG2/ND9 | 130-170 |
| Multipla 1,6                       | 1999-02  | R134a | 650      | PAG2/ND9 | 265     |
| Multipla 1,9 JTD                   | 1999-02  | R134a | 650      | PAG2/ND9 | 130     |
| Ulysse                             | 1994-02  | R134a | 950-1000 | PAG/ND8  | 135     |
| Scudo                              | 1996-02  | R134a | 950-1000 | PAG/ND8  | 135     |
| Ducato/Talento                     | 1994-02  | R134a | 800-900  | PAG2/ND9 | 120-150 |
| Ducato/Talento with rear air       | 1994-02  | R134a | 950-1050 | PAG2/ND9 | 120-150 |
| Ducato 244                         | 2002-06  | R134a | 875-925  | PAG2/ND9 |         |
| Ducato 244 with rear air           | 2002-06  | R134a | 975-1025 | PAG2/ND9 |         |
| Ducato 244 Panorama                | 2002-06  | R134a | 775-825  | PAG2/ND9 |         |
| Ducato 2.2D/2.3D3.0D               | 07/2006- | R134a | 550      | PAG/ND8  |         |
| Ducato 2.2D/2.3D3.0D with rear air | 07/2006- | R134a | 950      | PAG/ND8  |         |
| Palio/Palio weekend 1.2i/1.6 16V   | 2002-06  | R134a | 600-650  | PAG/ND8  | 100     |
| Panda                              | 2003-08  | R134a | 470-530  | PAG/ND8  |         |
| Stilo                              | 2001-08  | R134a | 475-525  | PAG/ND8  |         |

## FORD

|                                       |                   |       |           |         |           |
|---------------------------------------|-------------------|-------|-----------|---------|-----------|
| Courier                               | 2005              | R134a | 550       |         |           |
| Courier                               | 1996-07           | R134a | 550       |         |           |
| Cougar                                | 1998-01           | R134a | 725-755   | PAG/ND8 | 200       |
| Escape                                | 2001-05           | R134a | 850       |         |           |
| Escape                                | 2006-             | R134a | 800+-20   |         |           |
| Explorer                              | 2001-06           | R134a | 910+-30   |         |           |
| Explorer Dual                         | 2001-06           | R134a | 1590+-50  |         |           |
| Explorer                              | 2005-             | R134a | 910       |         |           |
| Falcon EF/EL                          |                   | R134a | 850+-50   |         |           |
| Falcon BA/BF                          |                   | R134a | 650       |         |           |
| Falcon FG Series                      | 2008-             | R134a | 475+-25   |         |           |
| Falcon AU                             |                   | R134a | 850+-50   |         |           |
| Escort/Orion                          | 1990-03           | R12   | 810-830   | SW100   | 80        |
| Escort                                | 1994-00           | R134a | 725-755   | PAG/ND8 | 160       |
| Fiesta/classic                        | 1994-96           | R134a | 725-755   | PAG/ND8 | 100       |
| Fiesta                                | 1995-02           | R134a | 725-755   | PAG/ND8 | 200       |
| Fiesta JH (condenser with 1.2mm tube) | 2004-07           | R134a | 460-480   | PAG/ND8 | 200       |
| Fiesta JH (condenser with 3mm tube)   | 2002-07           | R134a | 635-655   | PAG/ND8 | 207       |
| Fiesta 1.6 Duratorq                   | 2009-             | R134a | 550+-10   |         |           |
| Fiesta                                | 2009-             | R134a | 390+-10   |         |           |
| Focus                                 | 1998-02           | R134a | 740 +/-15 | PAG/ND8 | 200       |
| Focus C-max condenser 1.2mm tube      | 2003-07           | R134a | 600 +/-15 | PAG/ND8 | 200       |
| Focus C-max condenser 3mm tube        | 2003-07           | R134a | 730-750   | PAG/ND8 | 200       |
| Focus II condenser tube 3mm           | 2004-07           | R134a | 585-615   | PAG/ND8 | 200       |
| Focus                                 | 2005-11           | R134a | 600+-15   |         |           |
| Focus with 1.6 Duratorq LW            | 2011-             | R134a | 460+-15   |         |           |
| Focus LW                              | 2011-             | R134a | 530+-15   |         |           |
| Galaxy 2,3/2,0                        | 1995-00           | R134a | 950-1000  | PAG/ND8 | 205       |
|                                       | <b>14</b> 1995-00 | R134a | 1350-1400 | PAG/ND8 | 240       |
| Galaxy 2,3/2,0                        | 2000-02           | R134a | 70-750    | PAG/ND8 | 200       |
|                                       | <b>14</b> 2000-02 | R134a | 1050-1100 | PAG/ND8 | 240       |
| Galaxy 2,8/1,9 TDi                    | 1995-00           | R134a | 950-1000  | PAG/ND8 | 135       |
|                                       | <b>14</b> 1995-00 | R134a | 1350-1400 | PAG/ND8 | 240       |
| Galaxy 2,8/1,9 TDi                    | 2000-02           | R134a | 700-750   | PAG/ND8 | 134       |
|                                       | <b>14</b> 2000-02 | R134a | 1050-1100 | PAG/ND8 | 240       |
| Granada/Scorpio                       | 1985-93           | R12   | 765-785   | SW100   | <b>10</b> |
| Granada/Scorpio                       | 1994              | R134a | <b>9</b>  | PAG/ND8 | 160       |
| KA                                    | 1996-05           | R134a | 637-663   | PAG/ND8 | 200       |
| Maverick                              | 1993-98           | R134a | 740-760   | PAG/ND8 | 200       |
| Mustang                               | 2008              | R134a | 730       |         |           |
| Mondeo                                | 1993-00           | R134a | 725-755   | PAG/ND8 | 200       |
| Mondeo                                | 2000-02           | R134a | 803-837   | PAG/ND8 | 200       |

|                                  |            |       |           |         |     |
|----------------------------------|------------|-------|-----------|---------|-----|
| Mondeo with condenser tube 1.2mm | 12/2001-07 | R134a | 685-715   | PAG/ND8 | 200 |
| Mondeo with condenser tube 3.0mm | 12/2001-07 | R134a | 800-840   | PAG/ND8 | 200 |
| Mondeo                           | 2007-09    | R134a | 590+-15   |         |     |
| Mondeo                           | 09-        | R134a | 520+-10   |         |     |
| Mondeo with 2.5 Duratec          | 09-        | R134a | 590+-10   |         |     |
| Puma                             | 1997-01    | R134a | 725-755   | PAG/ND8 | 200 |
| Probe                            | 1994-98    | R134a | 830-1165  | PAG/ND8 | 200 |
| Ranger PJ-PK                     | 1999-03    | R134a | 550       | PAG/ND8 | 180 |
| Ranger                           | 2011-      | R134a | 650       |         |     |
| Sierra                           | 1987-93    | R12   | 830-870   | SW100   | 10  |
| Scorpio                          | 1994-98    | R134a | 980-1020  | PAG/ND8 | 160 |
| S-Max                            | 2006-      | R134a | 585-615   | PAG/ND8 | 200 |
| S-Max with rear air              | 2006-      | R134a | 835-865   | PAG/ND8 | 250 |
| Territory SX-SY                  |            | R134a | 650+-50   |         |     |
| Territory SZ                     |            | R134a | 520+-10   |         |     |
| Transit                          | 1994-00    | R134a | 885-915   | PAG/ND8 | 200 |
| Transit with rear air            | 94-08.97   | R134a | 1375-1425 | PAG/ND8 | 250 |
| Transit with rear air            | 09.97-00   | R134a | 1175-1225 | PAG/ND8 | 250 |
| Transit                          | 2000-05    | R134a | 720-760   | PAG/ND8 | 10  |
| Transit with rear air            | 2000-05    | R134a | 1530-1590 | PAG/ND8 | 10  |
| Transit                          | 7/2006-    | R134a | 730-770   | PAG/ND8 | 280 |
| Transit with rear air            | 7/2006-    | R134a | 1370-1430 | PAG/ND8 |     |

### FREIGHT LINER

|                  |       |       |      |  |  |
|------------------|-------|-------|------|--|--|
| FLB112           |       | R134a | 1000 |  |  |
| FL80             |       | R134a | 1000 |  |  |
| Argasy           | 2003- | R134a | 1300 |  |  |
| Argasy with rear | 2003- | R134a | 1500 |  |  |

### HITACHI

|       |  |       |         |  |  |
|-------|--|-------|---------|--|--|
| ZX200 |  | R134a | 700     |  |  |
| EX120 |  | R134a | 800-900 |  |  |

### HOLDEN - SEE OPEL

|                 |         |       |         |         |     |
|-----------------|---------|-------|---------|---------|-----|
| Adventra        | 2003-06 |       | 800+-25 |         |     |
| Astra           | 1998-05 |       | 650     | PAG/ND8 | 120 |
| Astra           | 2004-06 |       | 475-500 |         |     |
| Barina          | 2001-06 |       | 640     |         |     |
| Commodore VE    | 2006-   |       | 580+-20 |         |     |
| Commodore VR-VZ |         |       | 800+-25 |         |     |
| Cruze           | 2002-06 |       | 360+-25 |         |     |
| Captiva V6 2.4L |         | R134a | 660+-20 |         |     |
| Captiva 2.0 DSL |         | R134a | 520+-20 |         |     |
| Epica           | 2007-   | R134a | 880     |         |     |
| Rodeo RA Petrol | 2003-   |       | 750+-25 |         |     |
| Rodeo RA Diesel | 2003-   |       | 700+-25 |         |     |
| Vectra B        | 1995-02 |       | 900-950 | PAG/ND8 | 295 |
| Vectra C        | 2002-07 |       | 730     | PAG/ND8 | 120 |

### HONDA

|                                       |         |       |         |         |         |
|---------------------------------------|---------|-------|---------|---------|---------|
| Logo - Matsushita comp                | 1999-01 | R134a | 500-550 | PAG/ND8 | 130-140 |
| Sanden comp                           | 1999-01 | R134a | 500-550 | PAG/ND8 | 130-150 |
| Civic/Shuttle - Denso comp            | 1998-91 | R12   | 850-950 | xxx     | 80      |
| Matsushita comp                       | 1988-91 | R12   | 850-950 | xxx     | 130     |
| Civic - Denso comp                    | 1991-93 | R12   | 600-650 | xxx     | 80      |
| Matsushita comp                       | 1991-93 | R12   | 600-650 | xxx     | 140     |
| Sanden comp                           | 1991-93 | R12   | 600-650 | xxx     | 120     |
| Civic - Denso comp                    | 1994-95 | R134a | 500-550 | PAG/ND8 | 120     |
| Matsushita comp                       | 1994-95 | R134a | 500-550 | PAG/ND8 | 140     |
| Sanden comp                           | 1994-95 | R134a | 500-550 | PAG/ND8 | 120     |
| Civic 2/3/4 door/- Turer - Denso comp | 1996-01 | R134a | 600-650 | PAG/ND8 | 140     |
| Sanden comp                           | 1996-01 | R134a | 600-650 | PAG/ND8 | 130     |
| Civic 5 door/- Turer                  | 1995-97 | R134a | 500-550 | PAG/ND8 | 120     |

|                                    |         |       |         |         |         |
|------------------------------------|---------|-------|---------|---------|---------|
| Civic 5 door/- Turer - Denso comp  | 1997-00 | R134a | 500-550 | PAG/ND8 | 120     |
| Sanden comp                        | 1997-00 | R134a | 500-550 | PAG/ND8 | 130     |
| Civic 5 door/-Turer Diesel RHD     | 1997-00 | R134a | 560     | PAG/ND8 | 135     |
| Civic 5 door/-Turer Diesel LHD     | 1997-00 | R134a | 640     | PAG/ND8 | 135     |
| Civic                              | 2000-06 | R134a | 500-550 | PAG/ND8 | 130-150 |
| Civic                              | 2006-   | R134a | 450-480 | PAG/ND8 | 80      |
| Concerto                           | 1990-92 | R12   | 850-950 | xxx     | 130     |
| Concerto                           | 1993-95 | R134a | 750-800 | PAG/ND8 | 120     |
| Accord                             | 1992-93 | R12   | 800-850 | xxx     | 90-120  |
| Accord - Denso comp                | 1993-98 | R134a | 700-750 | PAG/ND8 | 160     |
| Hadsys comp                        | 1993-98 | R134a | 700-750 | PAG/ND8 | 160     |
| Accord Diesel RHD                  | 1996-98 | R134a | 700     | PAG/ND8 | 135     |
| Accord Diesel LHD                  | 1996-98 | R134a | 650     | PAG/ND8 | 135     |
| Accord - Denso comp                | 1998-02 | R134a | 500-550 | PAG/ND8 | 160     |
| Sanden comp                        | 1998-02 | R134a | 500-550 | PAG/ND8 | 130     |
| Accord Aerodeck/Coupe              | 1992-93 | R12   | 800-850 | xxx     | 90-120  |
| Accord Aerodeck/Coupe - Denso comp | 1994-97 | R134a | 600-650 | PAG/ND8 | 160     |
| Hadsys comp                        | 1994-97 | R134a | 600-650 | PAG/ND8 | 160     |
| Accord coupe                       | 1998-02 | R134a | 600-650 | PAG/ND8 | 160-175 |
| Accord                             | 2003-06 | R134a | 550+-50 | PAG/ND8 | 130     |
| Integra                            | 2001-06 | R134a | 525+-25 |         |         |
| Jazz                               | 2002-06 | R134a | 425+-25 |         |         |
| Legend - Denso comp                | 1987-91 | R12   | 950-950 | xxx     | 80      |
| Matsushita comp                    | 1987-91 | R12   | 850-950 | xxx     | 130     |
| Legend - Denso comp                | 1991-92 | R12   | 700-800 | xxx     | 120     |
| Legend - Denso comp                | 1993-96 | R134a | 750-800 | PAG/ND8 | 180     |
| Hadsys comp                        | 1993-96 | R134a | 750-800 | PAG/ND8 | 180     |
| Legend - Denso comp                | 1996-02 | R134a | 700-750 | PAG/ND8 | 140     |
| Odyssey                            | 2000-04 | R134a | 975+-25 |         |         |
| Odyssey                            | 2004-06 | R134a | 725+-25 |         |         |
| CRX - Denso comp                   | 1992-93 | R12   | 600-650 | xxx     | 80      |
| Matsushita comp                    | 1992-93 | R12   | 600-650 | xxx     | 140     |
| Sanden comp                        | 1992-93 | R12   | 600-650 | xxx     | 120     |
| CRX - Denso comp                   | 1994-97 | R134a | 500-550 | PAG/ND8 | 120     |
| Matsushita comp                    | 1994-97 | R134a | 500-550 | PAG/ND8 | 140     |
| Sanden comp                        | 1994-97 | R134a | 500-550 | PAG/ND8 | 120     |
| Prelude RHD                        | 1987-92 | R12   | 800-900 | xxx     | 130     |
| Prelude LHD                        | 1987-92 | R12   | 850-950 | xxx     | 130     |
| Prelude                            | 1992-93 | R12   | 750-800 | xxx     | 120-140 |
| Prelude RHD                        | 1994-96 | R134a | 650-700 | PAG/ND8 | 120     |
| Prelude LHD                        | 1994-96 | R134a | 600-650 | PAG/ND8 | 120     |
| Prelude                            | 1997-01 | R134a | 700-750 | PAG/ND8 | 130-150 |
| S2000                              | 2000-02 | R134a | 600-650 | PAG/ND8 | 130-150 |
| Stream                             | 2001-06 | R134a | 500-550 | PAG/ND8 | 150     |
| Stream with rear air               | 2001-06 | R134a | 700-750 | PAG/ND8 | 160-175 |
| HRV                                | 1999-02 | R134a | 600+-50 | PAG/ND8 | 130-150 |
| CRV RHD                            | 1997-02 | R134a | 600-650 | PAG/ND8 | 130-150 |
| CRV LHD                            | 1997-02 | R134a | 650-700 | PAG/ND8 | 130-150 |
| CRV                                | 2002-08 | R134a | 480-530 | PAG/ND8 | 130-150 |
| Shuttle                            | 1995-01 | R134a | 600-650 | PAG/ND8 | 160     |
| Shuttle with rear air              | 1995-01 | R134a | 800-850 | PAG/ND8 | 160     |

## HUMMER

|    |         |       |     |  |  |
|----|---------|-------|-----|--|--|
| H2 | 2003-04 | R134a | 800 |  |  |
|----|---------|-------|-----|--|--|

## HYUNDAI

|                 |         |       |         |         |         |
|-----------------|---------|-------|---------|---------|---------|
| Atoz/Atos/Amica | 1998-02 | R134a | 625-675 | PAG/ND8 | 150     |
| Pony            | 1991-93 | R12   | 850-900 | xxx     | 240     |
| Pony            | 1994    | R12   | 850-900 | xxx     | 207-230 |
| Pony            | 1994    | R134a | 680-700 | PAG/ND8 | 207-230 |
| Accent          | 1994    | R12   | 850-900 | xxx     | 140-160 |
| Accent          | 1994-99 | R134a | 670-680 | PAG/ND8 | 170-190 |
| Accent          | 2000-02 | R134a | 575-625 | PAG/ND8 | 140-160 |

|   |           |       |           |          |         |
|---|-----------|-------|-----------|----------|---------|
| Getz  | 2002-08   | R134a | 475-525   | PAG/ND8  | 110-130 |
| Grandeur 3.3/3.8                                    | 2005-     | R134a | 480-520   | PAG/ND8  | 140-160 |
| Lantra  | 1991-93   | R12   | 900       | xxx      | 112-118 |
| Lantra  | 1994      | R12   | 850-900   | xxx      | 140-160 |
| Lantra  | 1994-96   | R134a | 670-680   | PAG/ND8  | 140-160 |
| Lantra  | 1996-00   | R134a | 675-725   | PAG/ND8  | 170-190 |
| Matrix  | 2001-06   | R134a | 570       | PAG/ND8  | 155     |
| Elantra with HS-15 comp                             | 2001-06   | R134a | 655-705   | PAG/ND8  | 140-160 |
| Elantra with 10PA15C comp                           | 2001-06   | R134a | 655-705   | PAG/ND8  | 120-135 |
| Santa Fe  | 2000-08   | R134a | 550-600   |          |         |
| Santa Fe Dual                                       | 2000-08   | R134a | 810+-25   |          |         |
| Sonata  | 1988-93   | R12   | 850-900   | xxx      | 207-230 |
| Sonata  | 1993-95   | R134a | 775-825   | PAG/ND8  | 207-230 |
| Sonata  | 1996-97   | R134a | 675-725   | PAG/ND8  | 207-230 |
| Sonata  | 1998-02   | R134a | 675-725   | PAG/ND8  | 150     |
| Sonata  | 2001-05   | R134a | 660-700   | PAG/ND8  | 150     |
| Sonata  | 2005-     | R134a | 530-570   | PAG/ND8  | 150     |
| XG  | 1999-02   | R134a | 645-695   | PAG/ND8  | 150     |
| S Coupe   | 1990-91   | R12   | 850-900   | SW100    | 240     |
| S Coupe   | 1992-93   | R12   | 850-900   | SW100    | 60-100  |
| S Coupe   | 1994      | R12   | 850-900   | SW100    | 207-230 |
| S Coupe   | 1994-95   | R134a | 650-700   | PAG/ND8  | 140-160 |
| Coupe   | 1996-02   | R134a | 675-725   | PAG/ND8  | 170-190 |
| Terracan  | 2001-2006 | R134a | 850+-25   |          |         |
| Trajet  | 2000-02   | R134a | 670       | PAG/ND8  | 180     |
| Trajet with rear air                                | 2000-02   | R134a | 850       | PAG/ND8  | 180     |
| Tucson petrol                                       | 2004-08   | R134a | 490-430   | PAG/ND8  | 120-135 |
| Tucson diesel                                       | 2004-08   | R134a | 490-530   | PAG/ND8  | 200-215 |
| Starex/H1/H200 - FS10 comp                          | 1997-02   | R134a | 625-675   | PAG2/ND9 | 200-220 |
| MSC-130CV comp                                      | 1997-02   | R134a | 625-675   | PAG/ND8  | 230-240 |
| V6(CWV618) comp                                     | 1997-02   | R134a | 625-675   | xxx      | 250     |
| FS10 comp 14  | 1997-02   | R134a | 1290-1310 | PAG2/ND9 | 200-220 |
| MSC-130CV comp 14                                   | 1997-02   | R134a | 1290-1310 | PAG/ND8  | 230-240 |
| V6(CWV618) comp 14                                  | 1997-02   | R134a | 1290-1310 | xxx      | 250     |
| H100  | 1993-02   | R134a | 625-675   | PAG/ND8  | 170-190 |
| H100 with rear air                                  | 1993-02   | R134a | 1350-1450 | PAG/ND8  | 170-190 |
| H1/H200/Starex 2.4i/2.5D/2.6D compressor FS10/Zexel | 1997-05   | R134a | 625-675   | PAG/ND8  | 200-220 |
| with rear a/c                                       | 1997-05   | R134a | 1300      | PAG/ND8  | 220-240 |
| H1/H200/Starex 2.4i/2.5D/2.6D compressor MSC130CV   | 1997-05   | R134a | 625-675   | PAG/ND8  | 240-260 |
| with rear a/c                                       | 1997-05   | R134a | 1300      | PAG/ND8  | 260-280 |
| I30   | 2008      | R134a | 500       |          |         |
| IX35  | 2011      | R134a | 510 +-20  |          |         |
| XG  | 2000-03   | R134a | 650-690   | PAG/ND8  | 150     |

## ISUZU

|                         |         |       |     |          |     |
|-------------------------|---------|-------|-----|----------|-----|
| Truck NKR cabin only    | 96ish   | R134a | 650 |          |     |
| Trooper - DKS-17CH comp | 1992-94 | R12   | 850 | xxx      | 150 |
| DCV-14A comp            | 1992-94 | R12   | 850 | xxx      | 150 |
| Trooper/Bighorn         | 1994-98 | R134a | 750 | PAG2/ND9 | 270 |
| Trooper Diesel/Bighorn  | 1994-98 | R134a | 750 | PAG/ND8  | 270 |
| Trooper/Bighorn         | 1998-02 | R134a | 750 | PAG2/ND9 | 150 |
| Trooper Diesel/Bighorn  | 1998-02 | R134a | 750 | PAG/ND8  | 150 |
| Campo Diesel            | 1990-02 | R134a | 750 | PAG/ND8  | 260 |

## IVECO

|             |       |       |     |  |  |
|-------------|-------|-------|-----|--|--|
| Turbo Daily | 2004- | R134a | 950 |  |  |
|-------------|-------|-------|-----|--|--|

## JAGUAR (DAIMLER)

|                             |         |       |           |         |     |
|-----------------------------|---------|-------|-----------|---------|-----|
| X-Type                      | 2001-07 | R134a | 795-825   | PAG/ND8 | 220 |
| S-Type                      | 1999-02 | R134a | 775-825   | PAG/ND8 | 210 |
| S-Type                      | 2003-06 | R134a | 650-700   |         |     |
| XJ6/Sovereign - Sanden comp | 1986-92 | R12   | 1102-1158 | xxx     | 135 |
| GM comp                     | 1986-92 | R12   | 1102-1158 | xxx     | 199 |



|                   |          |       |           |          |           |
|-------------------|----------|-------|-----------|----------|-----------|
| XJ6/Sovereign     | 1993-94  | R134a | 1127-1173 | PAG2/ND9 | 120-150   |
| XJ6/XJR           | 1994-97  | R134a | 1050-1150 | PAG/ND8  | 180-200   |
| XJR               | 1998-03  | R134a | 650-700   | PAG/ND8  | 160-200   |
| XJR               | 2003-07  | R134a | 630-650   | PAG/ND8  | 140       |
| XJ8               | 1997-02  | R134a | 650-700   | xxx      | 160-200   |
| XJ12/Double Six   | 1990-92  | R12   | 1552-1608 | xxx      | <b>10</b> |
| XJ12/Double Six   | 1993-94  | R134a | 1127-1173 | PAG2/ND9 | 120-150   |
| XJ12/Double Six   | 1994-97  | R134a | 1050-1150 | PAG/ND8  | 180-200   |
| XJS - Sanden comp | 88-08.93 | R12   | <b>10</b> | xxx      | 135       |
| GM comp           | 88-08.93 | R12   | <b>10</b> | xxx      | 199       |
| XJS - Sanden comp | 09.93-97 | R134a | 900-950   | PAG2/ND9 | 120-150   |
| XK8               | 1997-02  | R134a | 600-700   | xxx      | 160-200   |
| XKR               | 2002-06  | R134a | 650-700   | PAG/ND8  | 160-200   |

## JEEP

|                |         |  |         |  |  |
|----------------|---------|--|---------|--|--|
| Cherokee       | 91-96   |  | 800-850 |  |  |
| Cherokee       | 97-01   |  | 550     |  |  |
| Cherokee       | 2001-06 |  | 740     |  |  |
| Grand Cherokee | 96-99   |  | 800     |  |  |
| Grand Cherokee | 99-05   |  | 765     |  |  |
| Wrangler       | 89-95   |  | 800-850 |  |  |
| Wrangler       | 96-06   |  | 500-550 |  |  |

## John Deere

|                        |  |       |      |  |        |
|------------------------|--|-------|------|--|--------|
| 6400 Parallel Flow     |  | R134a | 1450 |  |        |
| 6400 Tube and Fin Cond |  | R134a | 1750 |  |        |
| 6300                   |  | R134a | 1300 |  | 160mls |

## KENWORTH

|       |   |       |           |  |  |
|-------|---|-------|-----------|--|--|
| T4045 | 6 | R134a | 1200-1300 |  |  |
|-------|---|-------|-----------|--|--|

## KIA

|                     |         |       |           |          |           |
|---------------------|---------|-------|-----------|----------|-----------|
| Rio                 | 2000-05 | R134a | 650       |          |           |
| Rio II              | 2005-   | R134a | 475-525   | PAG/ND8  | 110-130   |
| Mentor/Sephia/Shuma | 1996-02 | R134a | 700       | PAG/ND8  | <b>10</b> |
| Clarus/Credos 1,8   | 1996-02 | R134a | 650-750   | PAG/ND8  | 140-160   |
| Clarus/Credus 2,0   | 1996-02 | R134a | 650-750   | PAG2/ND9 | 200       |
| Carens              | 1999-02 | R134a | 750-850   | PAG/ND8  | 120       |
| Carnival/Sedona     | 2000-02 | R134a | 1100-1200 | PAG/ND8  | 200       |
| Sportage            | 1995-02 | R134a | 700       | PAG2/ND9 | <b>10</b> |
| Sportage 6pk belt   | 2004-07 | R134a | 485-535   | PAG/ND8  | 200-215   |
| Sportage 4pk belt   | 2004-07 | R134a | 485-535   | PAG/ND8  | 120-135   |
| Sorento             | 2002-07 | R134a | 575-625   | PAG/ND8  | 200       |

## LANCIA

|                           |         |       |         |          |           |
|---------------------------|---------|-------|---------|----------|-----------|
| Y10                       | 1992-93 | R12   | 800     | xxx      | 100       |
| Ypsilon 1,1               | 1996-02 | R134a | 625-675 | PAG/ND8  | 60-100    |
| Ypsikliom 1,2/1,4         | 1996-02 | R134a | 650-700 | PAG2/ND9 | 140-180   |
| Delta/Dedra - Sankyo comp | 1994-99 | R134a | 690-770 | PAG2/ND9 | 135       |
| 2,0 Turbo Sankyo comp     | 1994-98 | R134a | 800     | PAG2/ND9 | 135       |
| Harrison comp             | 1994-99 | R134a | 690-770 | PAG2/ND9 | 236       |
| Denso comp                | 1994-99 | R134a | 690-770 | PAG2/ND9 | 130-180   |
| Sanden 7V16 comp          | 1994-99 | R134a | 690-770 | PAG/ND8  | 240       |
| Sanden SD710 comp         | 1994-99 | R134a | 690-770 | PAG2/ND9 | <b>10</b> |
| Dedra - Sankyo comp       | 1989-93 | R12   | 850-950 | xxx      | 135       |
| Harrison comp             | 1989-93 | R12   | 850-950 | xxx      | 136       |
| Lybra 1,6                 | 1999-02 | R134a | 675-725 | PAG2/ND9 | 265       |
| Lybra 1,8/1,9 JTD         | 1999-02 | R134a | 675-725 | PAG2/ND9 | 135       |
| Lybra 2,0                 | 1999-02 | R134a | 675-725 | PAG2/ND9 | 130-150   |
| Lybra 2,4 JTD             | 1999-02 | R134a | 675-725 | PAG/ND8  | 105-150   |
| Thema                     | 1992-94 | R134a | 1100    | PAG2/ND9 | 135       |
| Kappa - Sanden comp       | 1994-01 | R134a | 730     | PAG/ND8  | 135       |
| Denso comp                | 1994-01 | R134a | 800     | PAG/ND8  | 140-170   |
| Zeta                      | 1996-02 | R134a | 1000    | PAG/ND8  | 135       |

## LANDROVER

|  |          |       |           |         |         |
|--|----------|-------|-----------|---------|---------|
| Freelander                                 | 1997-00  | R134a | 700-750   | PAG/ND8 | 130-170 |
| Freelander                                 | 2000-02  | R134a | 515-565   | PAG/ND8 | 10      |
| Freelander V6 LHD                          | 2000-02  | R134a | 405-455   | PAG/ND8 | 10      |
| Defender                                   | 06.94-98 | R134a | 1090      | PAG/ND8 | 313     |
| Defender TD5                               | 1999-02  | R134a | 700-800   | PAG/ND8 | 10      |
| Defender TD5                               | 2001-07  | R134a | 700-800   | PAG/ND8 | 180     |
| Discovery                                  | 90-08.94 | R12   | 1190      | xxx     | 120-150 |
| With rear air                              | 90-08.94 | R12   | 1540      | xxx     | 120-150 |
| Discovery                                  | 09.94-98 | R134a | 900       | PAG/ND8 | 180     |
| With rear air                              | 09.94-98 | R134a | 1150      | PAG/ND8 | 180     |
| Discovery                                  | 1998-02  | R134a | 675-725   | PAG/ND8 | 180     |
| With rear air                              | 1998-02  | R134a | 875-925   | PAG/ND8 | 180     |
| Range Rover RHD                            | 89-08.94 | R12   | 1250      | xxx     | 120-150 |
| Range Rover LHD                            | 89-08.94 | R12   | 1080      | xxx     | 120-150 |
| Range Rover/Classic                        | 09.94-95 | R134a | 900       | PAG/ND8 | 180     |
| Range Rover                                | 1994-99  | R134a | 1250      | PAG/ND8 | 150     |
| Range Rover                                | 1999-02  | R134a | 1355-1405 | PAG/ND8 | 180     |
| Range Rover Diesel                         | 1994-02  | R134a | 1100      | PAG/ND8 | 140     |
| Range Rover Sport 2.7D/4.4/4.2Supercharged | 2005-07  | R134a | 600       | PAG/ND8 | 130     |

## LEXUS

|                        |         |       |          |         |         |
|------------------------|---------|-------|----------|---------|---------|
| ES250 90-91 /300 98-00 |         | R134a | 650-700  |         |         |
| ES300                  | 2002-06 | R134a | 800+-50  |         |         |
| LS200                  | 1999-02 | R134a | 550-650  | PAG/ND8 | 10      |
| GS300                  | 1994-96 | R134a | 800-900  | PAG/ND8 | 150     |
| GS300                  | 1996-02 | R134a | 550-650  | PAG/ND8 | 150     |
| GS430                  | 2000-05 | R134a | 550-650  | PAG/ND8 |         |
| IS200                  | 1999-05 | R134a | 550-600  | PAG/ND8 | 150     |
| IS250/220D             | 2005-   | R134a | 400-460  | PAG/ND8 |         |
| IS300                  | 1999-05 | R134a | 600+-50  |         |         |
| LS400                  | 1990-92 | R12   | 1050     | PAG/ND8 | 150     |
| LS400                  | 1993-00 | R134a | 650-750  | PAG/ND8 | 150     |
| with rear air          | 1993-00 | R134a | 900-1000 | PAG/ND8 | 180     |
| LS400                  | 96-00   | R134a | 650-700  |         |         |
| RX300                  | 1999-03 | R134a | 600-700  | PAG/ND8 |         |
| RX300                  | 2003-07 | R134a | 550-650  | PAG/ND8 |         |
| RX330                  | 2003-05 |       | 550-600  |         |         |
| RX400h                 | 2005-07 | R134a | 550-650  |         |         |
| SC430                  | 2001-06 | R134a | 650-750  | PAG/ND8 | 125-135 |

## LOTUS

|       |      |       |     |  |  |
|-------|------|-------|-----|--|--|
| Elise | 2004 | R134a | 700 |  |  |
|-------|------|-------|-----|--|--|

## MAC

|        |       |       |     |  |  |
|--------|-------|-------|-----|--|--|
| Actros | 2002- | R134a | 850 |  |  |
|--------|-------|-------|-----|--|--|

## Massey Ferguson

|           |  |       |     |  |  |
|-----------|--|-------|-----|--|--|
| 36 Series |  | R134a | 800 |  |  |
|-----------|--|-------|-----|--|--|

## MAZDA

|                              |          |       |         |         |     |
|------------------------------|----------|-------|---------|---------|-----|
| Mazda 2 1.2mm condenser pass | 2002-07  | R134a | 470     | PAG/ND8 | 210 |
| Mazda 2 3mm condenser pass   | 2002-07  | R134a | 650     | PAG/ND8 | 200 |
| Mazda 3 1.4/1.6/2.0          | 2002-06  | R134a | 450-500 | PAG/ND8 | 125 |
| Mazda 3 1.6D                 | 2003-07  | R134a | 650     | PAG/ND8 | 200 |
| Mazda 6/turbo                | 2002-06  | R134a | 430     | PAG/ND8 | 120 |
| BT50 2.5/3.0                 | 2006-    | R134a | 475     | PAG/ND8 | 180 |
| CX7 2.3i                     | 2007-    | R134a | 500     | PAG/ND8 | 150 |
| 121                          | 1993-94  | R134a | 650     | PAG/ND8 | 175 |
| 121                          | 1995-99  | R134a | 730-750 | PAG/ND8 | 200 |
| 323                          | 1989-94  | R12   | 750-800 | xxx     | 120 |
| 323                          | 94-10.96 | R134a | 750     | PAG/ND8 | 175 |

|               |          |       |         |         |         |
|---------------|----------|-------|---------|---------|---------|
| 323           | 11.96-98 | R134a | 700-750 | PAG/ND8 | 150     |
| 323 RHD       | 1998-02  | R134a | 625     | PAG/ND8 | 150     |
| 323 LHD626    | 1998-02  | R134a | 600     | PAG/ND8 | 150     |
| 626           | 92-05.94 | R12   | 750-800 | xxx     | 150     |
| 626           | 06.94-97 | R134a | 700     | PAG/ND8 | 175     |
| 626           | 1997-02  | R134a | 625-700 | PAG/ND8 | 150     |
| Xedos 6       | 92-03.94 | R134a | 700     | PAG/ND8 | 130-140 |
| Xedos 6       | 04.94-01 | R134a | 700     | PAG/ND8 | 175     |
| Xedos 9       | 1994-02  | R134a | 700-800 | PAG/ND8 | 175     |
| MX3           | 1991-94  | R12   | 800     | xxx     | 150     |
| MX3           | 1995-99  | R134a | 750     | PAG/ND8 | 175     |
| MX5           | 94-97    |       | 650+-50 |         |         |
| MX5           | 2002-05  |       | 300-350 |         |         |
| MX6           | 92-05.94 | R12   | 750-800 | xxx     | 150     |
| MX6           | 06.94-98 | R134a | 700     | PAG/ND8 | 175     |
| Demio         | 1998-02  | R134a | 600-650 | PAG/ND8 | 150     |
| Premacy       | 1999-02  | R134a | 650     | PAG/ND8 | 150     |
| MPV           | 1999-02  | R134a | 650     | PAG/ND8 | 160     |
| with rear air | 1999-02  | R134a | 850     | PAG/ND8 | 160     |
| E Series      | 1999-02  | R134a | 55      | PAG/ND8 | 150     |
| with rear air | 1995-02  | R134a | 1150    | PAG/ND8 | 200     |
| B Series      | 1995-98  | R134a | 550     | PAG/ND8 | 100-115 |
| B2500         | 1998-02  | R134a | 550     | PAG/ND8 | 180     |
| RX7           | 92-98    |       | 550     |         |         |
| RX8           | 2003-06  |       | 430     |         |         |
| Tribute       | 2001-06  |       | 850     |         |         |

## MERCEDES-BENZ

|   |              |       |          |         |         |
|---|--------------|-------|----------|---------|---------|
| A-Class                                     | 1998-02      | R134a | 570-630  | PAG/ND8 | 100     |
|   | 1984-93      | R12   | 100-1100 | xxx     | 120     |
|   | 1988-93      | R12   | 950      | xxx     | 150     |
| C-Class/Est./kmb VIN !A 168 524, 1F 164 269 | 1993-01      | R134a | 950      | PAG/ND8 | 155     |
| C-Class/Est/Kmb VIN 1A 168 525, 1F 164 270  | 1993-01      | R134a | 850      | PAG/ND8 | 155     |
| C-Class W203                                | 2000-04      | R134a | 850      | PAG/ND8 | 120     |
| C-Class W203 facelift                       | 2004-07      | R134a | 850      | PAG/ND8 | 120     |
| E-Class W124                                | 1985-93      | R12   | 1100     | xxx     | 120     |
| with rear air                               | 1985-93      | R12   | 1250     | xxx     | 120     |
| E-Class W124                                | 1993-96      | R134a | 950      | PAG/ND8 | 160     |
| with rear air                               | 1993-96      | R134a | 1150     | PAG/ND8 | 160     |
| E-Class W210                                | 1995-02      | R134a | 1000     | PAG/ND8 | 120     |
| E-Class W211                                | 2002-08      | R134a | 950      | PAG/ND8 | 120     |
| 260SE/300SE/300SEL                          | 1985-91      | R12   | 9        | xxx     | 120     |
| 420SE/420SEC/420SEL                         | 1989-91      | R12   | 9        | xxx     | 300     |
| 500SE/500SEC/500SEL/560SE                   | 1989-91      | R12   | 9        | xxx     | 300     |
| S-Class W126                                | 91-06.91     | R12   | 1300     | xxx     | 120     |
| with rear air                               | 91-06.91     | R12   | 1500     | xxx     | 120     |
| S-Class VIN 1A 128 373 W140                 | 07.91-99     | R134a | 1200     | PAG/ND8 | 10      |
| with rear air VIN 1A 128 373                | 07.91-99     | R134a | 1400     | PAG/ND8 | 10      |
| S Cass VIN 1A 128 374 W140                  | 07.91-99     | R134a | 1150     | PAG/ND8 | 10      |
| with rear air VIN 1A 128 374                | 07.91-99     | R134a | 1250     | PAG/ND8 | 10      |
| S-Class W220                                | 1999-02      | R134a | 950      | PAG/ND8 | 10      |
| with rear air                               | 1999-02      | R134a | 1050     | PAG/ND8 | 10      |
| SLK R170                                    | 1996-02      | R134a | 850      | PAG/ND8 | 120     |
| SLK R171                                    | 2004-07      | R134a | 670      | PAG/ND8 | 120     |
| CLK   | 1997-02      | R134a | 850      | PAG/ND8 | 120     |
| Smart Car                                   | 3/1/2003 on  | R134a | 400 +-50 |         |         |
| Smart Car                                   | pre 3/1/2003 | R134a | 590      |         |         |
| Sprinter 316 Cdi                            | 1995-05      | R134a | 860      | PAG/ND8 | 120     |
| with rear air                               | 1995-05      | R134a | 1300     | PAG/ND8 | 175     |
| Sprinter 906                                | 2006-08      | R134a | 740      | PAG/ND8 | 190     |
| with rear air                               | 2006-08      | R134a | 1125     | PAG/ND8 | 190     |
| SL280/SL320/SL500/SL600                     | 1993-01      | R134a | 950      | PAG/ND8 | 140-150 |
| 300SL/500SL                                 | 89-05.91     | R12   | 1100     | xxx     | 120     |
| 300SL/500SL/600SL                           | 06.91-94     | R134a | 950      | PAG/ND8 | 140-150 |

|               |         |       |      |         |         |
|---------------|---------|-------|------|---------|---------|
| M-Class W163  | 1998-05 | R134a | 750  | PAG/ND8 | 165-185 |
| M-Class W164  | 2005-08 | R134a | 970  | PAG/ND8 | 110     |
| with rear air | 2005-08 | R134a | 1220 | PAG/ND8 | 110     |
| Vito 108 Cdi  | 1999    | R134a | 850  | PAG/ND8 | 175     |

## MINI

|                  |         |       |         |     |    |
|------------------|---------|-------|---------|-----|----|
| Mini One /Cooper | 2001-02 | R134a | 405-425 | xxx | 10 |
|------------------|---------|-------|---------|-----|----|

## MITSUBISHI

|                                  |         |       |           |          |         |
|----------------------------------|---------|-------|-----------|----------|---------|
| ASX                              | 2012    | R134a | 500+-20   |          |         |
| Colt/Lancer                      | 1992-96 | R134a | 570-610   | PAG/ND8  | 120     |
| Colt/Lancer                      | 1996-02 | R134a | 555-595   | PAG/ND8  | 60      |
| Lancer Estate/Kombi              | 1993-97 | R134a | 700       | PAG/ND8  | 120-140 |
| Lancer /EVO VIII                 | 2003-07 | R134a | 480-520   | PAG/ND8  | 120     |
| Carisma                          | 1996-02 | R134a | 680-720   | PAG/ND8  | 120     |
| Carisma Diesel                   | 1997-02 | R134a | 680-720   | PAG/ND8  | 165     |
| Galant/Sapporo                   | 1987-93 | R12   | 1000      | PAG2/ND9 | 130-150 |
| Galant                           | 1993-97 | R134a | 630-670   | PAG/ND8  | 150-160 |
| Galant                           | 1997-02 | R134a | 670-710   | PAG/ND8  | 120     |
| Grandus (Without Dual Air)       |         | R134a | 560       | PAG/ND8  | 160-180 |
| Grandus (With Dual Air)          |         | R134a | 725-775   | PAG/ND8  | 160-180 |
| 3000 GT                          | 1993-00 | R134a | 740-790   | PAG/ND8  | 140-180 |
| Outlander                        | 2003-07 | R134a | 530-570   | PAG/ND8  | 120     |
| Pajero -No rear air              | 2006    | R134a | 550       |          |         |
| Space Star                       | 1999-02 | R134a | 660-700   | PAG/ND8  | 120     |
| Space Runner/Wagon               | 1991-93 | R12   | 800       |          | 80-100  |
| Space Runner/Wagon - 10PA15 comp | 1993-98 | R134a | 720       | PAG/ND8  | 100-140 |
| 10PA17 comp                      | 1993-98 | R134a | 720       | PAG/ND8  | 160-200 |
| Space Runner/Wagon               | 1999-02 | R134a | 500-600   | PAG/ND8  | 80-100  |
| Shogun/Pajero Pinin RHD          | 1999-02 | R134a | 550-590   |          | 160-170 |
| Shogun/Pajero Pinin LHD          | 1999-02 | R134a | 600-640   |          | 160-170 |
| Shogun/Pajero Sport/Challenger   | 1998-02 | R134a | 600-650   | PAG/ND8  | 170     |
| Shogun/Pajero 2,6/2,5 Turbo D    | 1988-91 | R12   | 910       | xxx      | 140-200 |
| with rear air                    | 1988-91 | R12   | 1390      | xxx      | 130-170 |
| Shogun/Pajero 3,0                | 1988-91 | R12   | 910       | xxx      | 60-100  |
| with rear air                    | 1988-91 | R12   | 1390      | xxx      | 130-170 |
| Shogun/Pajero                    | 1991-94 | R12   | 750-850   | xxx      | 80      |
| with rear air                    | 1991-94 | R12   | 1200-1300 | xxx      | 150     |
| Shogun/Pajero                    | 1994-00 | R134a | 600-650   | PAG/ND8  | 80      |
| with rear air                    | 1994-00 | R134a | 1000-1050 | PAG/ND8  | 150     |
| Shogun/Pajero                    | 2000-07 | R134a | 480-520   | PAG/ND8  | 100-140 |
| with rear air                    | 2000-03 | R134a | 760-800   | PAG/ND8  | 120-160 |
| Shogun/Pajero Sport              | 2000-07 | R134a | 600-650   | PAG/ND8  | 170     |
| L200                             | 1994-97 | R134a | 700-740   | PAG/ND8  | 100     |
| L200                             | 1997-06 | R134a | 550-600   | PAG/ND8  | 180     |
| L200                             | 2006-   | R134a | 555       | PAG/ND8  | 130     |

## NISSAN

|                                   |            |       |         |          |         |
|-----------------------------------|------------|-------|---------|----------|---------|
| Atlas                             |            | R134a | 600-650 |          |         |
| Micra (K11)                       | 92-03.94   | R12   | 650-750 | xxx      | 150     |
| Micra (K11)                       | 04.94-00   | R134a | 400-500 | PAG2/ND9 | 200     |
| Micra (K11)                       | 2000-02    | R134a | 450-550 | iPAG/ND8 | 200     |
| Micra (K12)                       | 2003-06    | R134a | 500     | PAG/ND8  |         |
| Sunny (N14/B13)                   | 1992-95    | R134a | 700-800 | PAG2/ND9 | 200     |
| Sunny Estate/Kombi (Y10) RHD      | 1992-03.94 | R12   | 550-650 | xxx      | 200     |
| Sunny Estate/Kombi (Y10) LHD      | 1992-03.94 | R134a | 700-800 | PAG2/ND9 | 200     |
| Sunny Estate/Kombi (Y10)          | 04.94-96   | R134a | 650-750 | PAG2/ND9 | 180-200 |
| Almera (N15) RHD - Calsonic comp  | 1995-00    | R134a | 450-550 | PAG2/ND9 | 180     |
| RHD - Zexel comp                  | 1995-00    | R134a | 450-550 | PAG2/ND9 | 200     |
| Almera (NH15) LHD - Calsonic comp | 1995-00    | R134a | 600-700 | PAG2/ND9 | 180     |
| LHD - Zexel comp                  | 1995-00    | R134a | 600-700 | PAG2/ND9 | 200     |
| Almera (N16)                      | 2000-02    | R134a | 450-550 | PAG/ND8  | 200     |
| Pulsar                            | 2005       | R134a | 500     |          |         |

|                                     |    |          |       |           |          |     |
|-------------------------------------|----|----------|-------|-----------|----------|-----|
| Primera (P10) RHD                   |    | 90-08.93 | R12   | 750-850   | xxx      | 200 |
| Primera (P10) LHD                   |    | 90-08.93 | R12   | 700-800   | xxx      | 200 |
| Primera (P10)                       |    | 09.93-96 | R134a | 700-800   | PAG2/ND9 | 200 |
| Primera (W10)                       |    | 90-08.93 | R12   | 700-800   | xxx      | 200 |
| Primera (W10) - Calsonic comp       |    | 09.93-96 | R134a | 550-650   | PAG2/ND9 | 180 |
| Zexel comp                          |    | 09.93-96 | R134a | 550-650   | PAG2/ND9 | 200 |
| Primera (P11)                       |    | 1996-99  | R134a | 550-650   | PAG2/ND9 | 180 |
| Primera 1,6 - eng GA 16DE (P11-144) |    | 1999-01  | R134a | 550-650   | PAG2/ND9 | 180 |
| Primera 1,6 - eng QG 16DE (P11-144) |    | 2000-02  | R134a | 550-650   | PAG/ND8  | 200 |
| Primera 1,8/2,0 (P11-144)           |    | 1999-02  | R134a | 550-650   | PAG/ND8  | 200 |
| Primera 2,0 D Turbo (P11-144)       |    | 1999-02  | R134a | 550-650   | PAG2/ND9 | 180 |
| Primera P12                         |    | 2002-07  | R134a | 500       | PAG/ND8  | 180 |
| QX (A32)                            |    | 1994-00  | R134a | 600-700   | PAG/ND8  | 250 |
| Maxima (QX) (A33)                   |    | 2000-04  | R134a | 600-700   | PAG/ND8  | 200 |
| 200SX (S13)                         |    | 1989-94  | R134a | 800-900   | xxx      | 200 |
| 200SX (S14)                         |    | 1994-00  | R134a | 600-800   | PAG2/ND9 | 200 |
| 200SX (S15)                         |    | 00-02    |       | 450-500   | PAG/ND8  | 200 |
| 300ZX (Z32)                         |    | 1990-93  | R12   | 750-850   | xxx      | 150 |
| 300ZX (Z32)                         |    | 1994     | R134a | 550-650   | PAG/ND8  | 200 |
| 350Z                                |    | 2002-06  |       | 450-500   |          |     |
| Almera Tino (V10)                   |    | 2000-02  | R134a | 450-550   | PAG/ND8  | 200 |
| Serena/Vanette Cargo RHD            |    | 92-06.96 | R134a | 600-700   | PAG/ND8  | 250 |
|                                     | 14 | 92-06.96 | R134a | 725-825   | PAG/ND8  | 250 |
| Serena/Vanette Cargo LHD            |    | 92-06.96 | R134a | 625-725   | PAG/ND8  | 250 |
|                                     | 14 | 92-06.96 | R134a | 675-775   | PAG/ND8  | 250 |
| Serena/Vanette Cargo RHD            |    | 07.96-02 | R134a | 550-650   | PAG/ND8  | 250 |
|                                     | 14 | 07.96-02 | R134a | 675-775   | PAG/ND8  | 250 |
| Serena/Vanette Cargo LHD            |    | 07.96-02 | R134a | 575-675   | PAG/ND8  | 250 |
|                                     | 14 | 07.96-02 | R134a | 325-725   | PAG/ND8  | 250 |
| Prarie 2,0 (M11)                    |    | 1989-94  | R12   | 850-950   | xxx      | 150 |
| Prarie 2,4 (M11) RHD                |    | 1992-95  | R12   | 700-800   | xxx      | 200 |
| Praire 2,4 (M11) LHD                |    | 1992-95  | R12   | 850-950   | xxx      | 200 |
| Terrano II (R20)                    |    | 1993-07  | R134a | 700-800   | PAG2/ND9 | 200 |
| X-Trail (T30)                       |    | 2001-07  | R134a | 500       | PAG/ND8  | 180 |
| X-Trail 2,2 D Turbo (T30)           |    | 2001-02  | R134a | 500       | PAG2/ND9 | 180 |
| Pathfinder                          |    | 2005-07  |       | 650-750   |          |     |
| Pathfinder Dual                     |    |          |       | 850+-50   |          |     |
| Patrol (260)                        |    | 1985-94  | R12   | 800-1000  | xxx      | 200 |
| Patrol GR (Y60)                     |    | 87-06.94 | R12   | 900-1100  | xxx      | 200 |
| Patrol GR (Y60)                     |    | 07.94-98 | R134a | 550-650   | PAG/ND8  | 200 |
| Patrol (Y61)                        |    | 1998-02  | R134a | 750-850   | PAG/ND8  | 300 |
| Patrol                              |    | 2000-07  |       | 750-800   |          |     |
| Patrol Dual                         |    |          |       | Add 200   |          |     |
| Pick-up (D21)                       |    | 03.92-98 | R134a | 750-850   | PAG2/ND9 | 200 |
| Pick-up (D22)                       |    | 1998-02  | R134a | 500-600   | PAG2/ND9 | 200 |
| Urvan (E24)                         |    | 07.94-96 | R134a | 900-1000  | PAG/ND8  | 250 |
|                                     | 14 | 07.94-96 | R134a | 1150-1250 | PAG/ND8  | 250 |
| Cabstar (F23)                       |    | 06.94-00 | R134a | 600-700   | PAG/ND8  | 250 |

## OPEL-VAUXHALL

|                                |  |         |       |         |          |         |
|--------------------------------|--|---------|-------|---------|----------|---------|
| Agila                          |  | 2000-02 | R134a | 500     | xxx      | 140-160 |
| Corsa-B                        |  | 1993-00 | R134a | 900     | PAG/ND8  | 295     |
| Corsa-C                        |  | 2000-02 | R134a | 650     | xxx      | 120-150 |
| Corsa-C 1,7D Turbo - eng Y17DT |  | 2000-02 | R134a | 560     | xxx      | 120     |
| Astra-F                        |  | 1999-94 | R134a | 700     | PAG2/ND9 | 295     |
| Astra-F                        |  | 1994-98 | R134a | 900     | PAG2/ND9 | 295     |
| Astra-G                        |  | 1998-01 | R134a | 700     | PAG/ND8  | 120-150 |
| Astra-G                        |  | 2002    | R134a | 600     | PAG/ND8  | 120-150 |
| Astra-G 2,0 Turbo              |  | 1998-02 | R134a | 700     | PAG/ND8  | 150     |
| Cavalier/Vectra-A              |  | 1988-93 | R12   | 1100    | xxx      | 240     |
| Cavalier/Vectra-A 7            |  | 1993-95 | R134a | 750     | PAG2/ND9 | 295     |
| Cavalier/Vectra-A 8            |  | 1994-95 | R134a | 1000    | PAG2/ND9 | 295     |
| Vectra-B                       |  | 1995-02 | R134a | 900-950 | PAG2/ND9 | 295     |

|                                |                   |       |         |          |         |
|--------------------------------|-------------------|-------|---------|----------|---------|
| Vectra-B 2,5/2,6               | 1995-02           | R134a | 900-950 | PAG/ND8  | 120     |
| Vectra-B 1,7D Turbo            | 1995-96           | R134a | 900-950 | PAG/ND8  | 155     |
| Vectra-B 2,0D Turbo/2,2D Turbo | 1997-02           | R134a | 750     | PAG2/ND9 | 195     |
| Carlton/Omega                  | 1986-94           | R12   | 1100    | xxx      | 240     |
| Omega-B                        | 1994-02           | R134a | 950     | PAG2/ND9 | 250     |
| Omega-B 2,0D                   | 1998-02           | R134a | 950     | PAG2/ND9 | 295     |
| Omega-B V8/2,5D Turbo          | 1994-02           | R134a | 950     | PAG/ND8  | 155     |
| Senator                        | 1988-93           | R12   | 1100    | xxx      | 240     |
| Tigra                          | 1995-00           | R134a | 900     | PAG/ND8  | 295     |
| Calibra                        | 1990-93           | R12   | 1100    | xxx      | 240     |
| Calibra 7                      | 1993-97           | R134a | 750     | PAG2/ND9 | 295     |
| Calibra 8                      | 1994-97           | R134a | 1000    | PAG2/ND9 | 295     |
| Zafira                         | 1998-01           | R134a | 700     | PAG/ND8  | 110-130 |
|                                | <b>14</b> 1998-01 | R134a | 950     | PAG/ND8  | 230-250 |
| Zafira                         | 2002              | R134a | 600     | PAG/ND8  | 110-130 |
|                                | <b>14</b> 2002    | R134a | 800     | PAG/ND8  | 230-250 |
| Zafira 2,0 Turbo               | 2001-02           | R134a | 700     | PAG/ND8  | 110-130 |
| Sintra                         | 1996-99           | R134a | 910     | PAG2/ND9 | 265     |
| Frontera                       | 91-02.95          | R134a | 800     | xxx      | 200     |
| Frontera                       | 03.95-08.96       | R134a | 750     | xxx      | 200     |
| Frontera Diesel                | 09.95-08.96       | R134a | 700     | xxx      | 200     |
| Frontera                       | 09.96-98          | R134a | 650     | xxx      | 200     |
| Frontera-B                     | 1998-02           | R134a | 650     | xxx      | 270     |
| Monterey                       | 1993              | R12   | 850     | xxx      | 270     |
| Monterey                       | 1994-00           | R134a | 750     | PAG2/ND9 | 150     |
| Monterey Diesel                | 1994-00           | R134a | 750     | PAG/ND8  | 150     |
| Brava Diesel                   | 1990-02           | R134a | 750     | PAG/ND8  | 260     |
| Movano                         | 1998-02           | R134a | 800-900 | PAG2/ND9 | 135     |

## PEUGEOT

|                          |          |       |           |          |         |
|--------------------------|----------|-------|-----------|----------|---------|
| 106                      | 1994-97  | R134a | 850-900   | PAG/ND8  | 135     |
| 106                      | 1997-02  | R134a | 815-835   | PAG/ND8  | 120-150 |
| 106 Diesel/1,6 GTI       | 1997-02  | R134a | 750       | PAG/ND8  | 120-150 |
| 107                      | 2005-08  | R134a | 480       | PAG/ND8  | 80      |
| 205                      | 1986-93  | R12   | 900       | xxx      | 175     |
| 205                      | 1993-98  | R134a | 675       | PAG2/ND9 | 120-150 |
| 206                      | 1998-07  | R134a | 680-720   | PAG/ND8  | 120-150 |
| 206 2,0i                 | 1999-07  | R134a | 630-670   | PAG/ND8  | 120-150 |
| 207                      | 2006-08  | R134a | 450       | PAG/ND8  | 135     |
| 306                      | 1993-97  | R134a | 875-925   | PAG/ND8  | 120-150 |
| 306                      | 1997-01  | R134a | 700-750   | PAG/ND8  | 120-150 |
| 307                      | 2001-07  | R134a | 580       | PAG/ND8  | 135     |
| 309                      | 1986-93  | R12   | 900       | xxx      | 175     |
| 405                      | 1987-93  | R12   | 1075-1125 | xxx      | 135     |
| 405                      | 1994-97  | R134a | 675       | PAG2/ND9 | 120-150 |
| 406 - Delphi comp        | 1995-99  | R134a | 750       | PAG2/ND9 | 250-280 |
| Sanden comp              | 1995-99  | R134a | 780-820   | PAG/ND8  | 120-150 |
| 406 V6                   | 1997-99  | R134a | 750       | PAG/ND8  | 120-150 |
| 406 1,6/1,8/2,0 - eng XU | 1999-01  | R134a | 775       | PAG/ND8  | 120-150 |
| 406 1,7/2,0/2,2 - eng EW | 1999-02  | R134a | 600       | PAG/ND8  | 120-150 |
| 406 V6                   | 1999-02  | R134a | 750       | PAG/ND8  | 120-150 |
| 406 2,0 Hdi              | 1999-02  | R134a | 600       | PAG2/ND9 | 250-280 |
| 605                      | 1989-93  | R12   | 1100      | xxx      | 135     |
| 605                      | 1994-99  | R134a | 885       | PAG/ND8  | 120-150 |
| 605 V6 - eng ESJ         | 1997-99  | R134a | 875       | PAG/ND8  | 120-150 |
| 605 2,5D Turbo           | 1995-99  | R134a | 850       | PAG/ND8  | 120-150 |
| 607                      | 2000-02  | R134a | 605-645   | PAG/ND8  | 120-150 |
| 806                      | 1994-02  | R134a | 950-1000  | PAG/ND8  | 120-150 |
| Partner                  | 1996-02  | R134a | 850-900   | PAG/ND8  | 120-150 |
| Partner Diesel           | 1996-02  | R134a | 750-800   | PAG/ND8  | 120-150 |
| Expert                   | 1995-02  | R134a | 950-1000  | PAG/ND8  | 120-150 |
| Boxer                    | 94-09.96 | R134a | 950-1050  | PAG2/ND9 | 135     |
| with rear air            | 94-09.96 | R134a | 1150-1250 | PAG2/ND9 | 135     |
| Boxer                    | 10.96-02 | R134a | 750-850   | PAG2/ND9 | 135     |

|               |          |       |          |          |     |
|---------------|----------|-------|----------|----------|-----|
| with rear air | 10.96-02 | R134a | 950-1050 | PAG2/ND9 | 135 |
|---------------|----------|-------|----------|----------|-----|

## PORSCHE

|                       |         |       |      |         |         |
|-----------------------|---------|-------|------|---------|---------|
| Boxster               | 1997-02 | R134a | 850  | PAG/ND8 | 180-210 |
| Carrera               | 2003-07 |       | 600  | PAG/ND8 | 140     |
| Cayenne               | 2002-07 |       | 700  | PAG/ND8 | 190-210 |
| Cayenne with rear air | 2002-07 |       | 1050 | PAG/ND8 | 290-310 |
| 911                   | 1984-93 | R12   | 1350 | xxx     | 100-140 |
| 911                   | 1993-97 | R134a | 840  | PAG/ND8 | 80-120  |
| 911 996               | 1997-02 | R134a | 900  | PAG/ND8 | 180-210 |
| 911 GT3 - 997         | 2007-   | R134a | 850  | PAG/ND8 |         |
| 944                   | 1985-92 | R12   | 950  | xxx     | 60-100  |
| 968                   | 1992    | R12   | 950  | xxx     | 60-100  |
| 968                   | 1993    | R134a | 860  | PAG/ND8 | 100-140 |
| 928                   | 1990-93 | R12   | 950  | xxx     | 260-300 |
| with rear air         | 1990-93 | R12   | 1150 | xxx     | 260-300 |

## RENAULT

|                                     |         |       |           |          |           |
|-------------------------------------|---------|-------|-----------|----------|-----------|
| Twingo                              | 1993-02 | R134a | 615-685   | PAG/ND8  | <b>10</b> |
| Clio                                | 1990-94 | R12   | 875-975   | xxx      | 120-150   |
| Clio                                | 1994-98 | R134a | 625-695   | PAG/ND8  | 120-150   |
| Clio                                | 1998-02 | R134a | 615-685   | PAG/ND8  | 135       |
| R19 1,4/1,9 Diesel                  | 1998-94 | R12   | 1050      | xxx      | <b>10</b> |
| R19 1,7                             | 1988-92 | R12   | 850       | xxx      | <b>10</b> |
| R19 1,7                             | 1993-94 | R12   | 1050      | xxx      | <b>10</b> |
| R19 1,7i                            | 1988-92 | R12   | 850       | xxx      | <b>10</b> |
| R19 1,7i                            | 1993-94 | R12   | 750       | xxx      | <b>10</b> |
| R19 1,8                             | 1992-94 | R12   | 750       | xxx      | <b>10</b> |
| R19 1,8 16V/1,9 D Turbo             | 1989-94 | R12   | 850       | xxx      | <b>10</b> |
| R19                                 | 1994-96 | R134a | 800       | PAG/ND8  | 120-150   |
| Megane - Delphi comp                | 1995-99 | R134a | 720-780   | PAG2/ND9 | 205-235   |
| Sanden comp                         | 1995-99 | R134a | 725-775   | PAG/ND8  | 135       |
| Megane - Delphi comp                | 1999-02 | R134a | 745-780   | PAG2/ND9 | 205       |
| R21                                 | 1986-94 | R12   | 900-1000  | xxx      | 235       |
| R21                                 | 1994-95 | R134a | 715-785   | PAG2/ND9 | 135       |
| Laguna                              | 1994-01 | R134a | 670-730   | PAG/ND8  | 205-235   |
| Laguna 1,6/1,8 16V                  | 1998-01 | R134a | 680-740   | PAG/ND8  | 120-150   |
| Laguna 2,0 - eng F3P 670/674        | 1994-01 | R134a | 750-810   | PAG/ND8  | <b>10</b> |
| Laguna 2,0 16V - eng N7Q            | 1996-99 | R134a | 775-825   | PAG2/ND9 | 120-150   |
| Laguna 2,0 16V - eng F4R            | 1999-01 | R134a | 625-695   | PAG/ND8  | 120-150   |
| Laguna 2,2 D/3,0                    | 1994-01 | R134a | 750-810   | PAG/ND8  | 120-150   |
| Laguna 2,2 D Turbo                  | 1996-99 | R134a | 670-730   | PAG/ND8  | 135       |
| Laguna                              | 2000-02 | R134a | 625-675   | PAG2/ND9 | 205-235   |
| R25 - Sanden SD709 comp             | 1984-93 | R12   | 900-1000  | xxx      | 120-150   |
| Sanden SD508/51 comp                | 1984-93 | R12   | 1000-1100 | xxx      | <b>10</b> |
| Safrane                             | 1992-94 | R12   | 1025-1125 | xxx      | 120-150   |
| Safrane                             | 1995-01 | R134a | 815-885   | PAG/ND8  | 120-150   |
| Safrane 2,0 16V/2,5 20V/2,2 D Turbo | 1996-01 | R134a | 750-810   | PAG/ND8  | 120-150   |
| Megane Scenic                       | 1996-99 | R134a | 765-835   | PAG/ND8  | 135       |
| Scenic                              | 1999-02 | R134a | 645-715   | PAG2/ND9 | 205-235   |
| Espace                              | 1991-94 | R12   | 1300-1500 | xxx      | 120-150   |
| Espace (J63)                        | 1994-97 | R134a | 1225-1275 | PAG2/ND9 | 120-150   |
| Espace (JEO)                        | 1996-02 | R134a | 850-910   | PAG2/ND9 | 120-150   |
| Espace V6 24V                       | 1998-02 | R134a | 865-915   | PAG/ND8  | 135       |
| Espace 1,9 D Turbo                  | 1999-02 | R134a | 700-740   | PAG/ND8  | 120-150   |
| Espace 2,2 D Turbo                  | 1996-02 | R134a | 670-730   | PAG2/ND9 | 120-150   |
| Extra/Express/Rapid                 | 1994-01 | R134a | 645-715   | PAG/ND8  | 120-150   |
| Kangoo                              | 1998-01 | R134a | 615-685   | PAG/ND8  | 120-150   |
| Master                              | 1998-02 | R134a | 800-900   | PAG2/ND9 | 135       |

## ROVER

|                    |         |       |         |         |         |
|--------------------|---------|-------|---------|---------|---------|
| 200/400 Series     | 1989-94 | R12   | 964     | xxx     | 115-130 |
| 200/400 Series     | 1994-95 | R134a | 710     | PAG/ND8 | 120-135 |
| 200/400 Series RHD | 1995-99 | R134a | 535-585 | PAG/ND8 | 135     |

|  |         |       |         |          |         |
|--|---------|-------|---------|----------|---------|
| 200/400 Series LHD                     | 1995-99 | R134a | 612-665 | PAG/ND8  | 135     |
| 200/400 Series Coupe/Cabrio/Tourer RHD | 1996-99 | R134a | 535-585 | PAG/ND8  | 135     |
| 200/400 Series Coupe/Cabrio/Tourer LHD | 1996-99 | R134a | 612-665 | PAG/ND8  | 135     |
| 25 RHD/MG ZR RHD                       | 1999-02 | R134a | 535-585 | PAG/ND8  | 135     |
| 25 LHD/MG ZR LHD                       | 1999-02 | R134a | 615-665 | PAG/ND8  | 135     |
| 45 RHD/MG ZS RHD                       | 1999-02 | R134a | 510-610 | PAG/ND8  | 135     |
| 45 LHD/MG ZS LHD                       | 1999-02 | R134a | 590-690 | PAG/ND8  | 135     |
| 600 Series                             | 1993-99 | R134a | 700-750 | PAG/ND8  | 160     |
| 75/MG ZT/ZT-T                          | 1999-02 | R134a | 400-500 | PAG/ND8  | 110-130 |
| 800 Series                             | 1956-91 | R12   | 1020    |          | 153     |
| 820                                    | 1991-94 | R12   | 1020    |          | 177     |
| 820                                    | 1994-99 | R134a | 600-700 | PAG/ND8  | 155     |
| 825                                    | 1996-99 | R134a | 600-700 | PAG/ND8  | 80-120  |
| 827                                    | 1991-94 | R12   | 1020    |          | 153     |
| 827                                    | 1994-96 | R134a | 600-700 | PAG/ND8  | 100     |
| 825 2,5 D Turbo                        | 1992-94 | R12   | 1020    |          | 177     |
| 825 2,5 D Turbo                        | 1994-96 | R134a | 600-700 | PAG/ND8  | 155     |
| 825 2,5 D Turbo                        | 1996-99 | R134a | 600-700 | PAG/ND8  | 80-120  |
| MGF MT                                 | 1995-02 | R134a | 610-630 | PAG2/ND9 | 170     |
| MGF AT                                 | 1998-02 | R134a | 710-730 | PAG2/ND9 | 170     |

## SAAB

|                            |         |       |          |          |         |
|----------------------------|---------|-------|----------|----------|---------|
| 90/900 - Sankyo/Seiko comp | 1984-93 | R12   | 950-1000 | xxx      | 170-175 |
| Clarion comp               | 1984-93 | R12   | 1050     | xxx      | 120     |
| 900                        | 1993-96 | R134a | 725      | PAG2/ND9 | 200     |
| 900                        | 1997-98 | R134a | 725      | PAG/ND8  | 150     |
| 9--3                       | 1998-02 | R134a | 800      | PAG/ND8  | 150     |
| 9-3 Diesel                 | 1998-02 | R134a | 800      | PAG2/ND9 | 295     |
| 9000                       | 1987-93 | R12   | 1100     | xxx      | 135     |
| with rear air              | 1987-93 | R12   | 1350     | xxx      | 135     |
| 9000                       | 1992-98 | R134a | 950      | PAG2/ND9 | 200     |
| 9--5                       | 1997-02 | R134a | 875      | PAG/ND8  | 145     |
| 9--5                       | 2005-08 | R134a | 825      | PAG/ND8  | 120     |

## SCANIA

|        |       |       |      |  |  |
|--------|-------|-------|------|--|--|
| Scania | 2000- | R134a | 1450 |  |  |
|--------|-------|-------|------|--|--|

## SEAT

|                            |         |       |           |         |         |
|----------------------------|---------|-------|-----------|---------|---------|
| Arosa - Sanden SD7B10 comp | 1997-00 | R134a | 700-750   | PAG/ND8 | 100     |
| SD6V12 comp                | 2000-02 | R134a | 700-750   | PAG/ND8 | 120     |
| Ibiza/Malaga               | 1985-93 | R12   | 1025-1075 | xxx     | 120-140 |
| Ibiza/Cordoba RHD          | 1993-99 | R134a | 900-930   | PAG/ND8 | 115-130 |
| Ibiza/Cordoba LHD          | 1993-99 | R134a | 850-880   | PAG/ND8 | 115-130 |
| Ibiza/Cordoba              | 1999-02 | R134a | 750-800   | PAG/ND8 | 135     |
| Leon                       | 1999-02 | R134a | 750-800   | PAG/ND8 | 120-150 |
| Toledo                     | 1991-93 | R12   | 920-980   | xxx     | 135-150 |
| Toldedo RHD                | 1993-99 | R134a | 870-930   | PAG/ND8 | 115-130 |
| Toledo LHD                 | 1993-99 | R134a | 820-880   | PAG/ND8 | 115-130 |
| Toledo                     | 1999-02 | R134a | 750-800   | PAG/ND8 | 120-150 |
| Alhambra                   | 1996-02 | R134a | 950-1000  | PAG/ND8 | 135     |
| with rear air              | 1996-00 | R134a | 1350-1400 | PAG/ND8 | 240     |
| with rear air              | 2000-02 | R134a | 1000-1050 | PAG/ND8 | 240     |
| Inca RHD                   | 1995-02 | R134a | 900-930   | PAG/ND8 | 115-130 |
| Inca LHD                   | 1995-02 | R134a | 850-880   | PAG/ND8 | 115-130 |

## SKODA

|             |         |       |         |          |         |
|-------------|---------|-------|---------|----------|---------|
| Felicia 1,3 | 1996-01 | R134A | 750-780 | PAG2/ND9 | 135     |
| Felicia 1,6 | 1996-01 | R134A | 720-750 | PAG/ND8  | 100     |
| Fabia       | 1999-02 | R134A | 525-575 | xxx      | 80      |
| Octavia     | 1999-02 | R134A | 750-800 | PAG/ND8  | 120-150 |

## SMART

|           |         |       |         |         |     |
|-----------|---------|-------|---------|---------|-----|
| Smart Car | 2003-06 | R134a | 400 +50 | PAG/ND8 | 180 |
| Smart Car | 1998-03 | R134a | 620     | PAG/ND8 | 180 |
| Roadster  | 2003-06 | R134a | 650     | PAG/ND8 | 180 |
| Forfour   | 2004-06 | R134a | 440     | PAG/ND8 | 100 |

## SSANGYONG -> DAEWOO

## STERLING



**SUBARU**

|              |         |       |         |          |           |
|--------------|---------|-------|---------|----------|-----------|
| Impreza      | 1993    | R12   | 650-750 | xxx      | <b>10</b> |
| Impreza      | 1994-96 | R134a | 600-700 | PAG2/ND9 | <b>10</b> |
| Impreza RHD  | 1997-00 | R134a | 550-650 | PAG2/ND9 | <b>10</b> |
| Impreza      | 2001-06 | R134a | 450-550 | PAG2/ND9 | <b>10</b> |
| Legacy       | 1994-95 | R134a | 600-700 | PAG/ND8  | <b>10</b> |
| Legacy RHD   | 1996    | R134a | 700-800 | PAG2/ND9 | <b>10</b> |
| Legacy RHD   | 1997-99 | R134a | 790-830 | PAG2/ND9 | <b>10</b> |
| Legacy RHD   | 2000-02 | R134a | 400-500 | PAG2/ND9 | <b>10</b> |
| Forester RHD | 1997-02 | R134a | 650-750 | PAG2/ND9 | <b>10</b> |
| Tribeca B9   | 2005-08 | R134a | 600     | PAG/ND8  |           |

**SUZUKI**

|              |         |       |         |         |           |
|--------------|---------|-------|---------|---------|-----------|
| Alto         | 1997-02 | R134a | 500-600 | xxx     | <b>10</b> |
| Ignis        | 2000-03 | R134a | 330-390 | xxx     | 120       |
| Ignis        | 2003-   | R134a | 480     | PAG/ND8 | 100       |
| Baleno       | 1995-02 | R134a | 600     | xxx     | 150       |
| Liana        | 2000-02 | R134a | 470-530 | xxx     | 100       |
| Cappucino    | 1993-96 | R134a | 600     | xxx     | 150       |
| Wagon R      | 1997-00 | R134a | 500-600 | xxx     | <b>10</b> |
| Jimny        | 1998-02 | R134a | 500-600 | xxx     | 80        |
| Grand Vitara | 1998-02 | R134a | 500-600 | xxx     | <b>10</b> |
| Grand Vitara | 2000-05 | R134a | 390-490 | PAG/ND8 | 120       |
| Grand Vitara | 2005-   | R134a | 570     | PAG/ND8 | 150       |
| Swift        | 06-     | R134a | 370 +20 |         |           |
| Vitara       | 88-94   | R134a | 495-540 |         |           |

**TOYOTA**

|                        |          |       |           |                    |           |
|------------------------|----------|-------|-----------|--------------------|-----------|
| Corolla                | 1993-94  | R12   | 700-800   | xxx                | <b>10</b> |
| Corolla                | 1994-97  | R134a | 650-750   | PAG2/ND9           | <b>10</b> |
| Corolla                | 1997-02  | R134a | 600-700   | PAG2/ND9           | <b>10</b> |
| Corolla 1,9D <b>17</b> | 2000     | R134a | 600-700   | PAG2/ND9           | <b>10</b> |
| Corolla 1,9D <b>18</b> | 2000     | R134a | 450-490   | PAG2/ND9           | <b>10</b> |
| Corolla                | 2002-08  | R134a | 425-475   | PAG/ND8            | <b>10</b> |
| Carina E               | 1992-98  | R134a | 700-800   | PAG/ND8            | <b>10</b> |
| Avensis                | 1998-07  | R134a | 400-500   | PAG/ND8            | <b>10</b> |
| Camry                  | 1994-96  | R134a | <b>10</b> | PAG/ND8            | <b>10</b> |
| Camry                  | 1996-01  | R134a | 750-850   | PAG/ND8            | <b>10</b> |
| Camry                  | 2001-05  | R134a | 520-580   | PAG/ND8            | <b>10</b> |
| Cavalier               | 97-      | R134a | 650-680   | With variable pump |           |
| Estima                 | 2000-06  |       | 690+-40   |                    |           |
| Estima Dual            | 2000-06  |       | 880+-30   |                    |           |
| Paseo                  | 1996-99  | R134a | 550-650   | PAG2/ND9           | <b>10</b> |
| MR2                    | 1993-99  | R134a | 800-900   | PAG/ND8            | <b>10</b> |
| MR2                    | 1999-06  | R134a | 470-530   | PAG/ND8            | 120       |
| Celica                 | 1990-94  | R12   | 700-800   | xxx                | <b>10</b> |
| Celica                 | 1994-99  | R134a | 600-700   | PAG/ND8            | <b>10</b> |
| Celica                 | 1999-02  | R134a | 400-460   | PAG/ND8            | 120       |
| Supra                  | 1986-93  | R12   | 750-850   | xxx                | <b>10</b> |
| Supra                  | 1993-97  | R134a | 650-750   | PAG/ND8            | <b>10</b> |
| Starlet                | 1994-96  | R134a | <b>10</b> | PAG/ND8            | <b>10</b> |
| Starlet                | 1996-99  | R134a | 550-650   | PAG/ND8            | <b>10</b> |
| Picnic                 | 1996-01  | R134a | 700-800   | PAG/ND8            | <b>10</b> |
| Prado                  | 96-02    |       | 750+-25   |                    |           |
| Prado Dual             | 2003-06  |       | 800+-50   |                    |           |
| Prade Ice Box          | 2003-06  |       | 900+-50   |                    |           |
| Previa                 | 90-07.93 | R12   | 900-1000  | xxx                | <b>10</b> |
| with rear air          | 90-07.93 | R12   | 1400      | xxx                | <b>10</b> |
| Previa                 | 08.93-02 | R134a | 850-950   | PAG/ND8            | <b>10</b> |
| with rear air          | 08.93-02 | R134a | 1100-1200 | PAG/ND8            | <b>10</b> |
| Previa                 | 2000-06  | R134a | 670-730   | PAG/ND8            | <b>10</b> |
| with rear air          | 2000-06  | R134a | 850-910   | PAG/ND8            | <b>10</b> |
| Prius                  | 2000-06  |       | 450       |                    |           |
| RAV4                   | 1994-00  | R134a | 650-750   | PAG/ND8            | <b>10</b> |
| RAV4                   | 2000-02  | R134a | 480-540   | PAG/ND8            | 120       |
| 4Runner RHD            | 1993-96  | R134a | 650-750   | PAG/ND8            | <b>10</b> |
| 4Runner LHD            | 1993-96  | R134a | 700-800   | PAG/ND8            | <b>10</b> |
| Landcruiser 2,4        | 1985-94  | R12   | 850-950   | xxx                | <b>10</b> |
| with rear air          | 1985-94  | R12   | 1550-1650 | xxx                | <b>10</b> |
| Landcruiser 3,4        | 1996-02  | R134a | 650-750   | PAG/ND8            | <b>10</b> |

|                                    |          |       |           |         |    |
|------------------------------------|----------|-------|-----------|---------|----|
| with rear air                      | 1996-02  | R134a | 900-1000  | PAG/ND8 | 10 |
| Landcruiser 4,5                    | 1995-98  | R134a | 11        | PAG/ND8 | 10 |
| Landcruiser Amazon 4,7/4,2 Turbo D | 1998-02  | R134a | 11        | PAG/ND8 | 10 |
| landcruiser Diesel                 | 1985-90  | R12   | 650-750   | xxx     | 10 |
| with rear air                      | 1985-90  | R12   | 1350-1450 | xxx     | 10 |
| Landcruiser Diesel                 | 1990-95  | R12   | 850-950   | xxx     | 10 |
| with rear air                      | 1990-95  | R12   | 1550-1650 | xxx     | 10 |
| Landcruiser 3,0 Turbo D            | 1993-96  | R134a | 850-900   | PAG/ND8 | 10 |
| with rear air                      | 1993-96  | R134a | 1550-1650 | PAG/ND8 | 10 |
| Landcruiser Colorado/Prado         | 1997-02  | R134a | 650-750   | PAG/ND8 | 10 |
| with rear air                      | 1997-02  | R134a | 900-1000  | PAG/ND8 | 10 |
| Landcruiser Amazon 4,2 Turbo D     | 1990-94  | R12   | 850-950   | xxx     | 10 |
| with rear air                      | 1990-94  | R12   | 1300-1400 | xxx     | 10 |
| Landcruiser Amazon 4,2 Turbo D     | 1995-98  | R134a | 800-900   | PAG/ND8 | 10 |
| Landcruiser                        | 2003-06  | R134a | 620-680   | PAG/ND8 |    |
| with cooler box                    | 2003-06  | R134a | 720-780   |         |    |
| with rear air                      | 2003-06  | R134a | 770-830   |         |    |
| Hi-Lux                             | 1993-96  | R134a | 700-800   | PAG/ND8 | 10 |
| Hi-Lux                             | 1997-02  | R134a | 500-600   | PAG/ND8 | 10 |
| Hi-Lux                             | 2005-    | R134a | 550       |         |    |
| Hiace                              | 2008-    | R134a | 500       |         |    |
| Yaris                              | 99-07.99 | R134a | 400-460   | PAG/ND8 | 10 |
| Yaris                              | 08.99-02 | R134a | 430-490   | PAG/ND8 | 10 |
| Yaris Verso                        | 2000-02  | R134a | 400-460   | PAG/ND8 | 10 |
| NEW TOYOTAS                        |          |       |           |         |    |

charge till sightglass is clear and then add +50-100gms

## VAUXHALL -> OPEL-VAUXHALL

### VOLKSWAGON

|                                   |          |       |           |         |         |
|-----------------------------------|----------|-------|-----------|---------|---------|
| Beetle                            | 1998-02  | R134a | 700-750   | PAG/ND8 | 120-150 |
| Crafter                           | 2006-    | R134a | 740       | PAG/ND8 |         |
| Lupo - Sanden comp                | 1998-00  | R134a | 700-750   | PAG/ND8 | 105-135 |
| Calsonic comp                     | 06.99-02 | R134a | 550-600   | PAG/ND8 | 150     |
| Polo - SD7B10 comp                | 94-09.99 | R134a | 700-750   | PAG/ND8 | 85-115  |
| Sanden SD6V12 comp                | 10.99-01 | R134a | 700-750   | PAG/ND8 | 105-135 |
| Polo Classic                      | 96-09.99 | R134a | 850-880   | PAG/ND8 | 115     |
| Polo Estate/Kombi                 | 97-09.99 | R134a | 850-880   | PAG/ND8 | 120-150 |
| Polo Classic/Estate/Kombi         | 10.99-02 | R134a | 850-880   | PAG/ND8 | 135     |
| Golf/Jetta - Sanden SD508 comp    | 1985-92  | R12   | 1050-1150 | xxx     | 175     |
| Sanden SD709 comp                 | 1989-92  | R12   | 1050-1150 | xxx     | 135     |
| Golf Cabrio - Sanden SD508 comp   | 1983-93  | R12   | 850-900   | xxx     | 175     |
| Sanden SD709 comp                 | 1983-93  | R12   | 850-900   | xxx     | 135     |
| Sanden SDV710 comp                | 1983-93  | R12   | 850-900   | xxx     | 120     |
| Golf/Vento                        | 91-06.92 | R12   | 950-1050  | xxx     | 120     |
| Golf/Vento/Cabrio - Harrison comp | 07.92-02 | R134a | 800-850   | PAG/ND8 | 115     |
| Sanden comp                       | 06.95-02 | R134a | 800-850   | PAG/ND8 | 296     |
| Golf/Bora                         | 1997-02  | R134a | 750-800   | PAG/ND8 | 120-150 |
| Golf V                            | 2003-08  | R134a | 500-550   | PAG/ND8 | 120     |
| Passat                            | 88-06.92 | R12   | 1200-1250 | xxx     | 135     |
| Passat                            | 07.92-97 | R134a | 1150-1200 | PAG/ND8 | 115     |
| Passat RHD - Denso comp           | 1996-02  | R134a | 700-750   | PAG/ND8 | 250     |
| RHD - Zexel comp                  | 1996-02  | R134a | 700-750   | PAG/ND8 | 250     |
| Passat                            | 2005-08  | R134a | 575-625   | PAG/ND8 | 100-120 |
| Scirocco - Sanden SD5008 comp     | 1983-92  | R12   | 850-900   | xxx     | 175     |
| Sanden SD709 comp                 | 1983-92  | R12   | 850-900   | xxx     | 135     |
| Sanden SDV710 comp                | 1983-92  | R12   | 850-900   | xxx     | 120     |
| York comp                         | 1983-92  | R12   | 850-900   | xxx     | 300     |
| Corrado                           | 89-06.92 | R12   | 1100-1150 | xxx     | 135     |
| Corrado                           | 07.92-95 | R134a | 950-900   | PAG/ND8 | 115     |
| Sharan                            | 1995-02  | R134a | 950-1000  | PAG/ND8 | 135     |
| with rear air                     | 1995-00  | R134a | 1350-1400 | PAG/ND8 | 240     |
| Sharan                            | 2000-07  | R134a | 700-750   | PAG/ND8 | 135     |
| with rear air                     | 2000-07  | R134a | 1050-1100 | PAG/ND8 | 240     |
| Caddy                             | 1995-02  | R134a | 850-880   | PAG/ND8 | 115     |
| Touran                            | 2003-08  | R134a | 500-550   | PAG/ND8 | 120     |
| Touareg                           | 2002-07  | R134a | 650-750   | PAG/ND8 |         |
| with rear air                     | 2004-07  | R134a | 1000-1100 | PAG/ND8 |         |
| Transporter 5                     | 1982-90  | R12   | 1300-1350 | xxx     | 240     |
| Transporter 6                     | 90-94.92 | R12   | 1050-1100 | xxx     | 135     |
| Transporter - Sanden SD7H15 comp  | 05.92-95 | R134a | 950-1000  | PAG/ND8 | 135     |
| with rear air                     | 05.92-95 | R134a | 1350-1400 | PAG/ND8 | 240     |

|                                  |         |       |           |         |     |
|----------------------------------|---------|-------|-----------|---------|-----|
| LWB - with rear air              | 1993-95 | R134a | 1400-1450 | PAG/ND8 | 240 |
| Transporter - Sanden SD7V16 comp | 1995-02 | R134a | 950-1000  | PAG/ND8 | 135 |
| with rear air                    | 1995-02 | R134a | 1350-1400 | PAG/ND8 | 240 |
| LWB - with rear air              | 1995-02 | R134a | 1400-1450 | PAG/ND8 | 240 |
| Transporter T5                   | 2003-06 | R134a | 600-700   | PAG/ND8 |     |
| with rear air                    | 2003-06 | R134a | 1000-1100 | PAG/ND8 |     |
| LT - Sanden comp                 | 1996-02 | R134a | 750-800   | PAG/ND8 | 135 |
| Denso comp                       | 1996-02 | R134a | 750-800   | PAG/ND8 | 175 |

## VOLVO

|                                       |         |       |         |          |         |
|---------------------------------------|---------|-------|---------|----------|---------|
| 440/460/480 - Zexel comp              | 1988-93 | R12   | 900     | xxx      | 180-220 |
| Sanden comp                           | 1988-93 | R12   | 900     | xxx      | 135     |
| 440/460/480 - Zexel comp              | 1994-97 | R134a | 650     | PAG/ND8  | 180-220 |
| Sanden comp                           | 1994-97 | R134a | 650     | PAG/ND8  | 160-200 |
| C30                                   | 2007-   | R134a | 535     |          |         |
| C70                                   | 2006-   | R134a | 535     |          |         |
| S40/V40                               | 1997-02 | R134a | 900     | PAG/ND8  | 180     |
| S40/V40 1,8 GDI                       | 1998    | R134a | 750     | PAG/ND8  | 120-140 |
| S40/V40 1,8 GDI                       | 1999-02 | R134a | 850     | PAG/ND8  | 150-180 |
| S40/V40 Diesel                        | 1996-98 | R134a | 900     | PAG/ND8  | 135     |
| S40/V40 Diesel                        | 1999-02 | R134a | 850     | PAG/ND8  | 135     |
| S40 II                                | 2004-08 | R134a | 500-570 |          |         |
| 240                                   | 1993-94 | R134a | 750     | PAG2/ND9 | 220     |
| 850/S/V70                             | 1991-00 | R134a | 750-825 | PAG/ND8  | 200     |
| S60                                   | 2000-05 | R134a | 1000    | PAG/ND8  | 180     |
| S70                                   | 1990-00 | R134a | 750-850 |          |         |
| S80                                   | 1998-06 | R134a | 1000    |          |         |
| without rear air                      | 2006-   | R134a | 620     |          |         |
| V50                                   | 2004-08 | R134a | 500-570 |          |         |
| V70                                   | 2000-07 | R134a | 1000    | PAG/ND8  | 180     |
| 700/900 Series - Zexel comp           | 1991    | R12   | 1100    | xxx      | 200     |
| Sanden comp                           | 1991    | R12   | 1100    | xxx      | 240     |
| 700/900 Series 16V Turbo - Zexel comp | 1991    | R12   | 1000    | xxx      | 200     |
| 700/900                               | 1993-98 | R134a | 950     | PAG2/ND9 | 220     |
| 700/900                               | 1993-99 | R134a | 900     | PAG2/ND9 | 220     |
| 700/900                               | 1998-02 | R134a | 1000    | PAG/ND8  | 180     |
| 700/900                               | 1998-02 | R134a | 750-825 | PAG/ND8  | 200     |
| XC 70                                 | 2002-07 | R134a | 1000    |          |         |
| XC90                                  | 2002-07 | R134a | 1000    |          |         |
| with rear air                         | 2002-07 | R134a | 1300    |          |         |

## Western Star

|             |       |      |  |  |  |
|-------------|-------|------|--|--|--|
| Some trucks | R134a | 1520 |  |  |  |
|-------------|-------|------|--|--|--|

## NOTES

- 1 round pipe condenser
- 2 flat pipe condenser
- 3 16mm condenser
- 4 23mm condenser
- 5 rear engine
- 6 front engine
- 7 old type expansion valve
- 8 new type expansion valve
- 9 refer to underbonnet label
- 10 manufacturer does not specify total system quantity - refer to label underbonnet or on compressor
- 11 options determine amount - refer to label underbonnet or on compressor
- 12 18mm condenser
- 13 20mm condenser
- 14 with rear AC
- 15 drum type compressor
- 16 impeller type compressor
- 17 Japanese built
- 18 UK built
- 19 Showa condenser
- 20 AWG condenser