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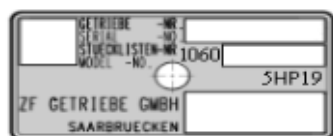
## 5HP19 Transmission Overview (North American Applications)

Make / Model / Model Year – BMW (A5S 325Z)

| Make | Model | Style             | Model Year  | From – Up to | Code | OE Part #       | ZF Part #    |
|------|-------|-------------------|-------------|--------------|------|-----------------|--------------|
| BMW  | 320i  | E46 Sedan         | 2000 –      |              | TN   | 24 00 1 423 928 | 1060 000 008 |
| BMW  | 323Ci | E46 Convertible   | 2000        | 03/00 –      | RU   | 24 00 1 422 912 | 1060 000 005 |
| BMW  | 323Ci | E46 Coupe         | 2000        | 03/00 –      | RU   | 24 00 1 422 912 | 1060 000 005 |
| BMW  | 323i  | E46 Sedan         | 2000        | 03/00 –      | RU   | 24 00 1 422 912 | 1060 000 005 |
| BMW  | 323i  | E46 Touring       | 2000        | 03/00 –      | RU   | 24 00 1 422 912 | 1060 000 005 |
| BMW  | 325Ci | E46 Convertible   | 2000 –      |              | TT   | 24 00 1 423 930 | 1060 000 009 |
| BMW  | 325Ci | E46 Coupe         | 2000 –      |              | TT   | 24 00 1 423 930 | 1060 000 009 |
| BMW  | 325i  | E46 Sedan         | 2000 –      | – 03/02      | TT   | 24 00 1 423 930 | 1060 000 009 |
| BMW  | 325i  | E46 Touring       | 2001 –      | 03/01 –      | TT   | 24 00 1 423 930 | 1060 000 009 |
| BMW  | 330Ci | E46 Convertible   | 1999 –      |              | TU   | 24 00 1 423 932 | 1060 000 010 |
| BMW  | 330Ci | E46 Coupe         | 1999 –      |              | TU   | 24 00 1 423 932 | 1060 000 010 |
| BMW  | 330i  | E46 Sedan         | 1999 –      |              | TU   | 24 00 1 423 932 | 1060 000 010 |
| BMW  | 525i  | E39 Sedan (M52)   | 2001 –      | 03/01 –      | TT   | 24 00 1 423 930 | 1060 000 009 |
| BMW  | 525i  | E39 Touring (M52) | 2001 –      | 03/01 –      | TT   | 24 00 1 423 930 | 1060 000 009 |
| BMW  | 530i  | E39 Sedan (M52)   | 2001 – 2002 | 03/01 –      | TU   | 24 00 1 423 932 | 1060 000 010 |

**Note:** This spare parts catalog includes only transmission specification numbers for North American applications. For all other 5HP19 transmission specification numbers, please contact your preferred ZF passenger car transmission distributor for more information about available spare parts and kits.

**Type Plate:** Located on the main housing of transmission. Please refer to ZF transmission specification # when searching for spare parts and kits in this catalog (last three digits).



- ← Transmission Serial #
- ← ZF Transmission Specification #
- ← Vehicle Manufacturer Transmission #



## 5HP19 Technical Information

### Torque, Gear Ratio & Weight

| Input Torque | 1 <sup>st</sup><br>Gear | 2 <sup>nd</sup><br>Gear | 3 <sup>rd</sup><br>Gear | 4 <sup>th</sup><br>Gear | 5 <sup>th</sup><br>Gear | Rev<br>Gear | Weight<br>(approximate) | Oil Capacity<br>(approximate) |
|--------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------|-------------------------|-------------------------------|
| 300 Nm       | 3.67                    | 2.00                    | 1.41                    | 1.00                    | 0.74                    | 4.10        | ~79 kg (174 lbs.)       | ~9.2 liter (9.8 quart)        |

### Transmission Oil Reference Guide

| Make | Oil Grade     | Type Plate (color) | ZF Part #    | OE Part #       |
|------|---------------|--------------------|--------------|-----------------|
| BMW  | ESSO LT 71141 | Green              | 1060 000 005 | 24 00 1 422 912 |
|      |               |                    | 1060 000 008 | 24 00 1 423 928 |
|      |               |                    | 1060 000 009 | 24 00 1 423 930 |
|      |               |                    | 1060 000 010 | 24 00 1 423 932 |

### 5HP19 Lubrications

| Amount    | ZF Part #    | Description                  | Where used<br>(1060 000 ____) | Notes |
|-----------|--------------|------------------------------|-------------------------------|-------|
| 20 Liter  | 0671 090 166 | Oil ESSO LT 71141 (Canister) | All                           |       |
| 205 Liter | 0671 090 169 | Oil ESSO LT 71141 (Drum)     | All                           |       |

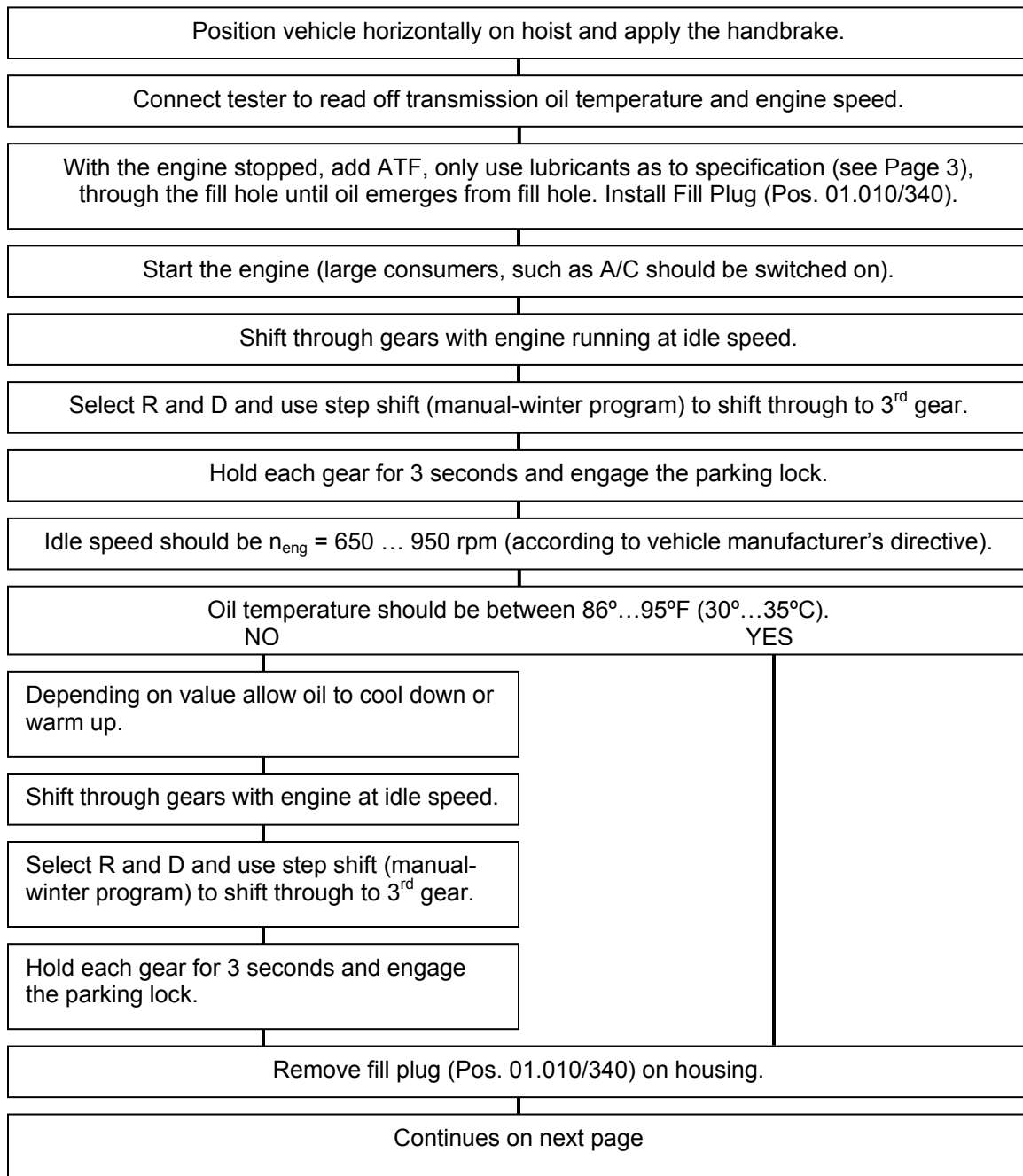
### 5HP19 Technical Literature

| Language | ZF Part #    | Description                  | Where used<br>(1060 000 ____) | Notes |
|----------|--------------|------------------------------|-------------------------------|-------|
| English  | 5HP19FD      | 5HP19 Functional Description | All                           |       |
| English  | 5HP19REP     | 5HP19 Repair Manual          | All                           |       |
| English  | 1060 764 001 | 5HP19 Wall Chart             | All                           |       |
| English  | 5HPVBMAN     | 5-Speed Valve Body Manual    | All                           |       |



## 5HP19 Technical Information (continued)

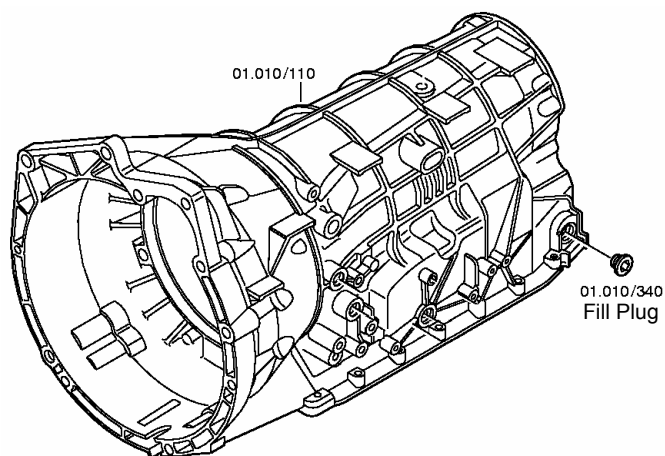
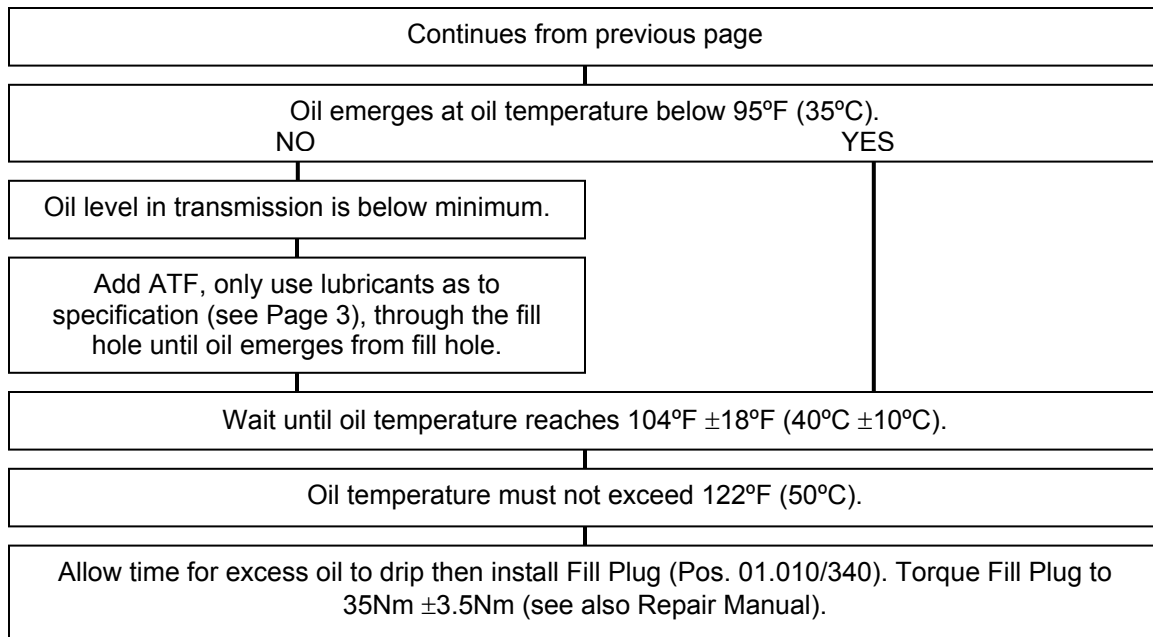
### 5HP19 General Transmission Oil Filling Procedure





## 5HP19 Technical Information (continued)

### 5HP19 General Transmission Oil Filling Procedure (continued)





## How To Use This Catalog

### Table of Contents

Each transmission group of this catalog is listed in the table of contents. This spare parts catalog includes only transmission specification numbers for North American applications.

### Technical Information

All technical information is specific to the transmission models that are referenced in this catalog. Weight and oil capacity information are only approximate and may vary by actual transmission specification. For any technical inquiry, please contact your preferred ZF passenger car transmission distributor for assistance. For a list of technical literature available from ZF or for answers to frequently asked questions about ZF transmissions visit us at [www.zf-group.com](http://www.zf-group.com).

### Spare Parts

Each transmission is divided into groups (e.g. gearbox housing group). The position number (**Pos #**) is used to identify the location of each spare part in the transmission. A position number like 01.010 is either a spare part or an assembly. A position number like 01.010/110 is a subcomponent of an assembly. Please contact your preferred ZF passenger car transmission distributor about availability of assemblies and subcomponents.

The part number (**ZF part #**) is used to identify a specific spare part and is usually ten-digits (kits, lubricants, and technical literature have exceptions). Please use this part number, when ordering ZF spare parts.

The description (**Description**) identifies the spare part.

The quantity (**Qty**) is the amount of spare parts included in one transmission model for a certain position number. The quantity may vary depending on the transmission specification and certain spare parts may be used in multiple positions in the transmission.

This catalog includes only spare parts for North American specifications of a ZF transmission application. The "where used" column (**Where used (10\_\_ 000 \_\_)**) shows the last three digits of the transmission specification that uses the listed spare part. If the column indicates "All", then all North American transmission specification use this spare part.

The notes column (**Notes**) gives more information about the spare part (e.g. included in a kit).

### Example:

| Pos #      | ZF Part #    | Description     | Qty | Where used<br>(1056 000 __) | Notes |
|------------|--------------|-----------------|-----|-----------------------------|-------|
| 01.010     | 1056 201 084 | Gearbox Housing | 1   | 087/088                     |       |
|            | 1056 201 087 | Gearbox Housing | 1   | 081                         |       |
| 01.010/110 | 1056 301 174 | Gearbox Housing | 1   | 087/088                     |       |
|            | 1056 301 175 | Gearbox Housing | 1   | 081                         |       |

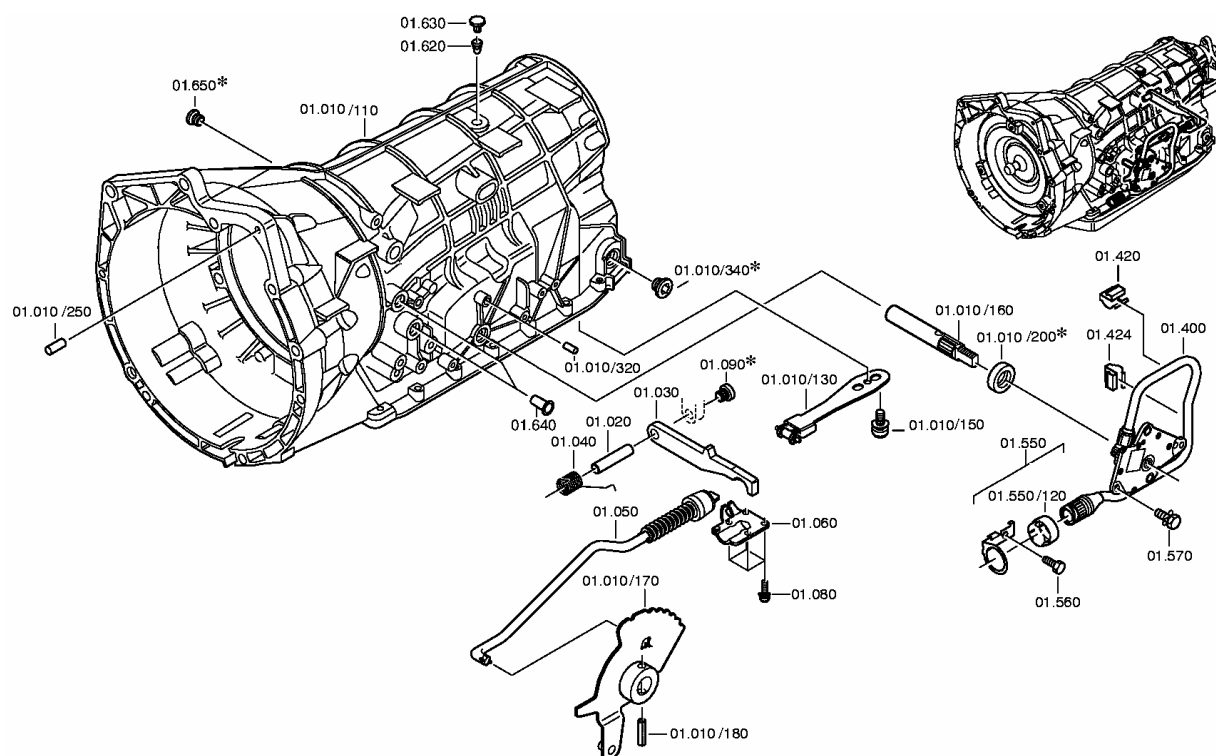
### Selective Shims, Snap Rings & Kit Content

Each list for selective shims or snap rings is listed in this section of the catalog. Please measure the clearance according to the repair manual and select the required spare part from the table.

The kit content section shows all available kits for the transmission models that are referenced in this catalog, including the content of each kit.

## 5HP19 Spare Parts - Gearbox Housing Group

| Pos #      | ZF Part #    | Description        | Qty | Where used<br>(1060 000 ____) | Notes                           |
|------------|--------------|--------------------|-----|-------------------------------|---------------------------------|
| 01.010     | 1060 201 056 | Gearbox Housing    | 1   | All                           |                                 |
| 01.010/110 | 1060 301 096 | Gearbox Housing    | 1   | All                           |                                 |
| 01.010/130 | 1055 206 014 | Detent Spring      | 1   | All                           |                                 |
| 01.010/150 | 0736 101 240 | Torx Screw M6x13   | 2   | All                           |                                 |
| 01.010/160 | 1056 306 052 | Selector Shaft     | 1   | All                           |                                 |
| 01.010/170 | 1055 206 012 | Detent Disc        | 1   | All                           |                                 |
| 01.010/180 | 0501 313 410 | Clamping Sleeve    | 1   | All                           |                                 |
| 01.010/200 | 0734 319 623 | Shaft Seal         | 1   | All                           | * Available in kit 1060 298 030 |
| 01.010/250 | 0631 306 123 | Cylindrical Pin    | 1   | All                           |                                 |
| 01.010/320 | 0631 306 058 | Cylindrical Pin    | 1   | All                           |                                 |
| 01.010/340 | 0636 308 025 | Screw Plug M18x1.5 | 1   | All                           | * Available in kit 1060 298 030 |
| 01.020     | 1056 324 018 | Pin                | 1   | All                           |                                 |
| 01.030     | 1056 324 011 | Pawl               | 1   | All                           |                                 |
| 01.040     | 1056 324 005 | Leg Spring         | 1   | All                           |                                 |
| 01.050     | 1060 201 008 | Connecting Bar     | 1   | All                           |                                 |

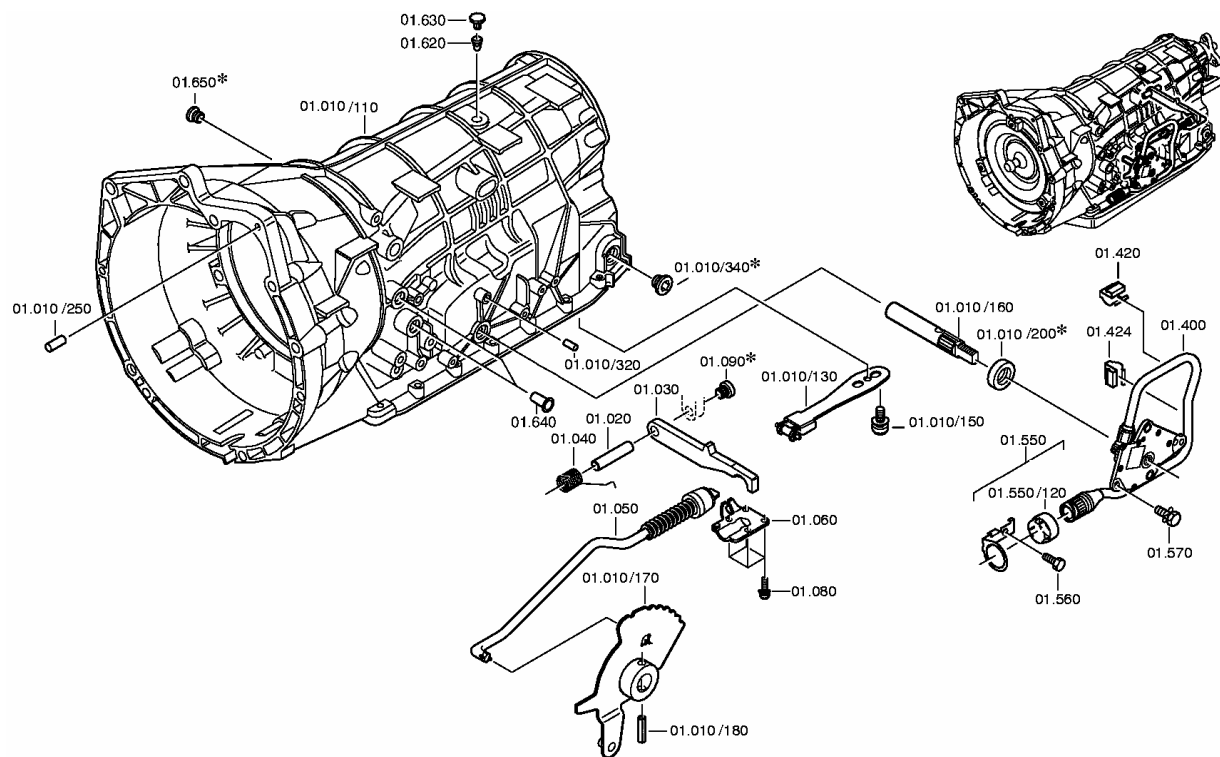


**Note:** Parts marked with \* are only available in kits.



## 5HP19 Spare Parts - Gearbox Housing Group (continued)

| Pos #      | ZF Part #    | Description         | Qty | Where used<br>(1060 000 ____) | Notes                           |
|------------|--------------|---------------------|-----|-------------------------------|---------------------------------|
| 01.060     | 1056 324 016 | Guiding Plate       | 1   | All                           |                                 |
| 01.080     | 0736 101 318 | Torx Screw M6x20    | 4   | All                           |                                 |
| 01.090     | 0636 308 024 | Screw Plug M12x1.5  | 1   | All                           | * Available in kit 1060 298 030 |
| 01.400     | 0501 317 781 | Position Switch     | 1   | All                           |                                 |
| 01.420     | 0501 313 993 | Cable Terminal      | 1   | All                           |                                 |
| 01.424     | 0501 313 993 | Cable Terminal      | 1   | All                           |                                 |
| 01.550     | 1056 290 003 | Bracket             | 1   | All                           |                                 |
| 01.550/120 | 0501 315 137 | Bracket             | 1   | All                           |                                 |
| 01.560     | 0636 103 157 | Hexagon Screw M8x16 | 1   | All                           |                                 |
| 01.570     | 0636 015 360 | Hexagon Screw M6x20 | 2   | All                           |                                 |
| 01.620     | 0501 318 900 | Breather Tube       | 1   | All                           |                                 |
| 01.630     | 0501 314 809 | Breather Cover      | 1   | All                           |                                 |
| 01.640     | 0637 900 068 | Plug                | 2   | All                           |                                 |
| 01.650     | 0501 318 572 | Screw Plug M10x1    | 1   | All                           | * Available in kit 1060 298 030 |

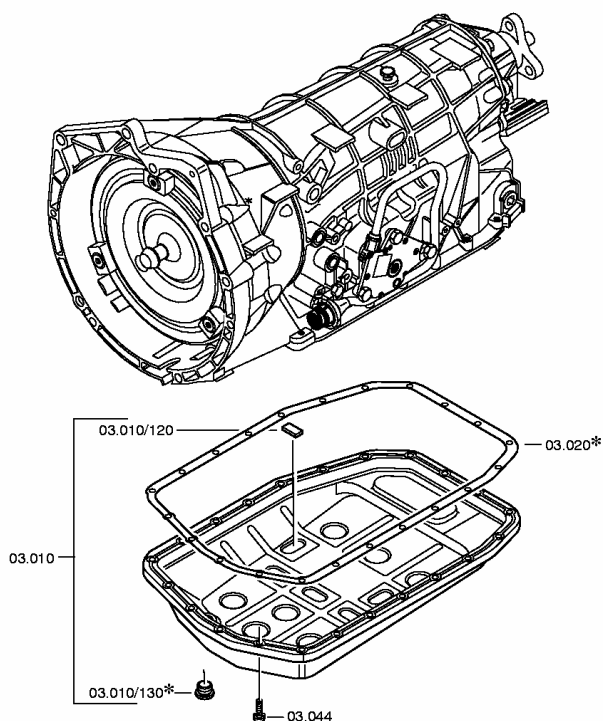


**Note:** Parts marked with \* are only available in kits.



## 5HP19 Spare Parts – Oil Sump Group

| Pos #      | ZF Part #    | Description        | Qty | Where used<br>(1060 000 ____) | Notes                                                         |
|------------|--------------|--------------------|-----|-------------------------------|---------------------------------------------------------------|
| 03.010     | 1060 290 017 | Oil Sump           | 1   | All                           |                                                               |
| 03.010/120 | 1043 301 036 | Magnet             | 8   | All                           |                                                               |
| 03.010/130 | 0736 302 062 | Screw Plug M14x1.5 | 1   | All                           | * Available in kit 1060 298 030<br>* Available in kit 5HP19FK |
| 03.020     | 1060 390 002 | Gasket             | 1   | All                           | * Available in kit 1060 298 030<br>* Available in kit 5HP19FK |
| 03.044     | 0736 101 318 | Torx Screw M6x22   | 22  | All                           |                                                               |

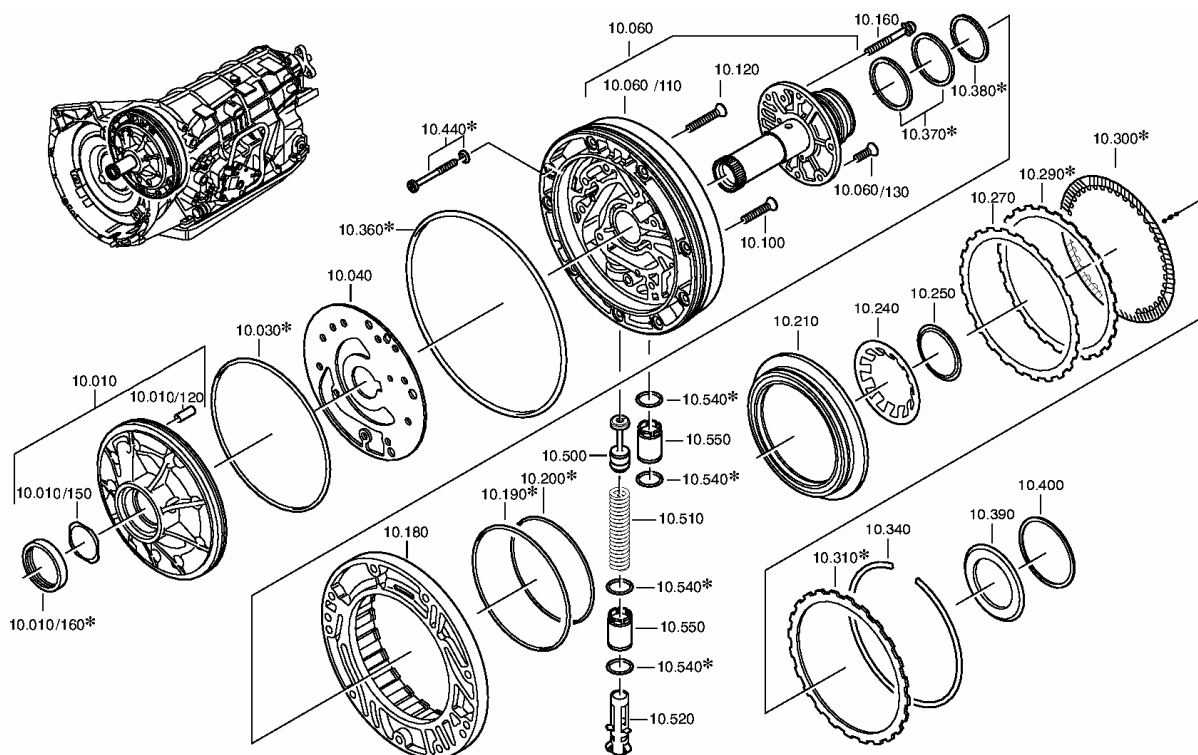


**Note:** Parts marked with \* are only available in kits.



## 5HP19 Spare Parts - Oil Supply Group

| Pos #      | ZF Part #    | Description           | Qty | Where used<br>(1060 000 ____) | Notes                           |
|------------|--------------|-----------------------|-----|-------------------------------|---------------------------------|
| 10.010     | 1060 210 047 | Pump                  | 1   | All                           |                                 |
| 10.010/120 | 1043 319 058 | Sleeve                | 1   | All                           |                                 |
| 10.010/150 | 1056 310 075 | Washer                | 1   | All                           |                                 |
| 10.010/160 | 0734 310 316 | Shaft Seal            | 1   | All                           | * Available in kit 1060 298 030 |
| 10.030     | 0734 313 178 | O-Ring                | 1   | All                           | * Available in kit 1060 298 030 |
| 10.040     | 1056 310 123 | Intermediate Sheet    | 1   | All                           |                                 |
| 10.060     | 1060 210 051 | Intermediate Plate    | 1   | All                           |                                 |
| 10.060/110 | 1060 310 078 | Intermediate Plate    | 1   | All                           |                                 |
| 10.060/120 | 1060 210 049 | Stator Hub            | 1   | All                           |                                 |
| 10.060/130 | 0736 401 061 | Counters. Screw M6x20 | 5   | All                           |                                 |
| 10.100     | 0736 401 062 | Counters. Screw M6x40 | 8   | All                           |                                 |
| 10.120     | 0736 401 063 | Counters. Screw M6x48 | 1   | All                           |                                 |
| 10.160     | 0736 101 059 | Torx Screw M5x55      | 1   | All                           |                                 |
| 10.180     | 1060 310 076 | Cylinder C            | 1   | 005/008/009                   |                                 |
|            | 1060 310 094 | Cylinder C            | 1   | 010                           |                                 |
| 10.190     | 0734 313 006 | O-Ring                | 1   | All                           | * Available in kit 1060 298 030 |
| 10.200     | 0734 313 117 | O-Ring                | 1   | All                           | * Available in kit 1060 298 030 |
| 10.210     | 1056 310 081 | Piston                | 1   | All                           |                                 |
| 10.240     | 0501 315 929 | Cup Spring            | 1   | All                           |                                 |
| 10.250     | 1056 310 061 | Stop Ring             | 1   | All                           |                                 |

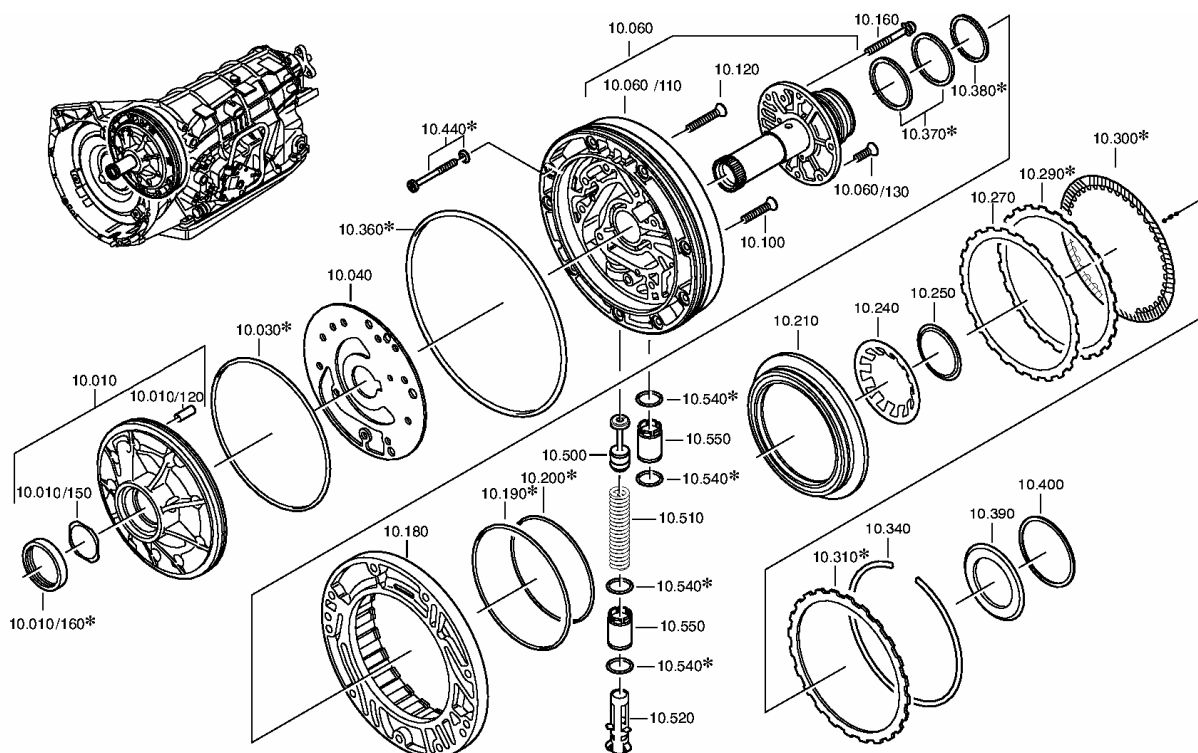


**Note:** Parts marked with \* are only available in kits.



## 5HP19 Spare Parts - Oil Supply Group (continued)

| Pos #  | ZF Part #    | Description             | Qty | Where used<br>(1060 000 ____) | Notes                           |
|--------|--------------|-------------------------|-----|-------------------------------|---------------------------------|
| 10.270 | 0501 316 284 | Undulated Spring        | 1   | All                           |                                 |
| 10.290 | 1060 310 027 | Steel Plate C           | 3   | 005/008/009                   | * Available in kit 1060 298 027 |
|        | 1060 310 053 | Steel Plate C           | 4   | 010                           | * Available in kit 1060 298 027 |
| 10.300 | 1019 273 019 | Friction Plate C        | 3   | 005/008/009                   | * Available in kit 1060 298 023 |
|        | 1019 273 019 | Friction Plate C        | 4   | 010                           | * Available in kit 1060 298 023 |
| 10.310 | 1060 310 005 | End Plate C             | 1   | All                           | * Available in kit 1060 298 027 |
| 10.340 | See Page 29  | Clutch C Snap Ring      | 1   | All                           | Selective Snap Ring             |
| 10.360 | 0734 313 064 | O-Ring                  | 1   | All                           | * Available in kit 1060 298 030 |
| 10.370 | 0750 113 015 | Piston Ring             | 2   | All                           | * Available in kit 1060 298 030 |
| 10.380 | 0734 401 213 | Piston Ring             | 1   | All                           | * Available in kit 1060 298 030 |
| 10.390 | 0735 368 039 | Axial Needle Cage       | 1   | All                           |                                 |
| 10.400 | See Page 29  | Intermediate Plate Shim | 1   | All                           | Selective Shim                  |
| 10.440 | 0736 101 228 | Torx Screw M6x70        | 9   | All                           |                                 |
|        | 0750 112 076 | Usit Ring               | 9   | All                           | * Available in kit 1060 298 030 |
| 10.500 | 1060 310 079 | Piston                  | 1   | All                           |                                 |
| 10.510 | 0732 042 580 | Compression Spring      | 1   | All                           |                                 |
| 10.520 | 1058 310 092 | Sleeve                  | 1   | All                           |                                 |
| 10.540 | 0734 313 161 | O-Ring                  | 4   | All                           | * Available in kit 1060 298 030 |
| 10.550 | 1060 310 045 | Pipe                    | 2   | All                           |                                 |

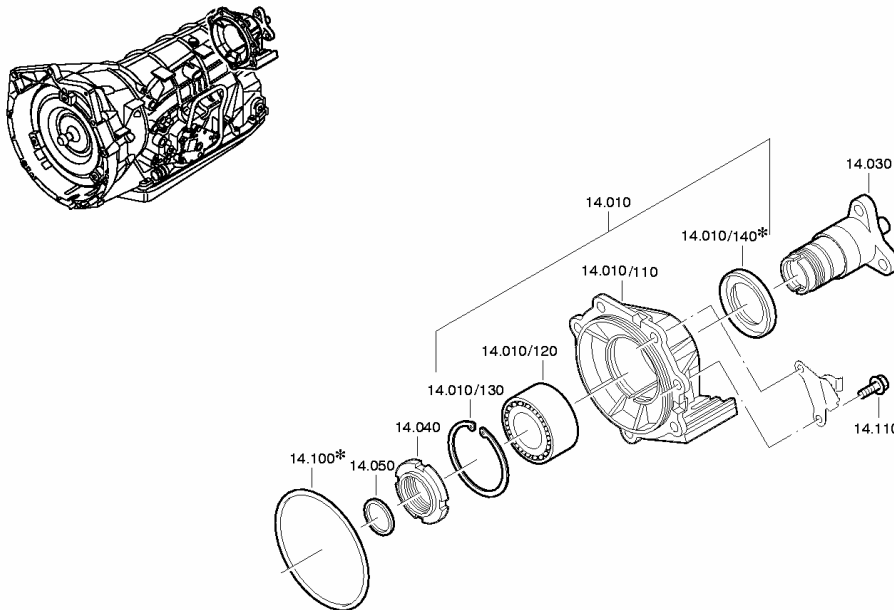


**Note:** Parts marked with \* are only available in kits.



## 5HP19 Spare Parts – Output Group

| Pos #      | ZF Part #    | Description         | Qty | Where used<br>(1060 000 ____) | Notes                           |
|------------|--------------|---------------------|-----|-------------------------------|---------------------------------|
| 14.010     | 1060 214 006 | Extension           | 1   | All                           |                                 |
| 14.010/110 | 1056 314 044 | Extension           | 1   | All                           |                                 |
| 14.010/120 | 0750 116 119 | Ball Bearing        | 1   | All                           |                                 |
| 14.010/130 | 0630 502 037 | Retaining Ring      | 1   | All                           |                                 |
| 14.010/140 | 0734 319 607 | Shaft Seal          | 1   | All                           | * Available in kit 1060 298 030 |
| 14.030     | 1060 214 005 | Output Flange       | 1   | All                           |                                 |
| 14.040     | 0737 502 168 | Slotted Nut M40x1.5 | 1   | All                           |                                 |
| 14.050     | See Page 29  | Output Shim         | 1   | All                           | Selective Shim                  |
| 14.100     | 0734 313 083 | O-Ring              | 1   | All                           | * Available in kit 1060 298 030 |
| 14.110     | 0636 024 009 | Hexagon Screw M8x22 | 7   | All                           |                                 |

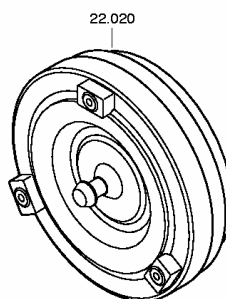
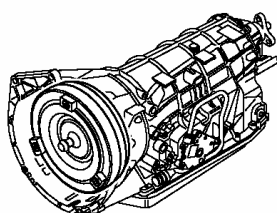


**Note:** Parts marked with \* are only available in kits.



## 5HP19 Spare Parts – Converter Group

| Pos #  | ZF Part #    | Description          | Qty | Where used<br>(1060 000 ____) | Notes |
|--------|--------------|----------------------|-----|-------------------------------|-------|
| 22.020 | 4168 022 006 | Torque Converter T51 | 1   | 008                           |       |
|        | 4168 025 136 | Torque Converter S38 | 1   | 005                           |       |
|        | 4168 025 145 | Torque Converter C51 | 1   | 009                           |       |
|        | 4168 025 210 | Torque Converter B61 | 1   | 010                           |       |

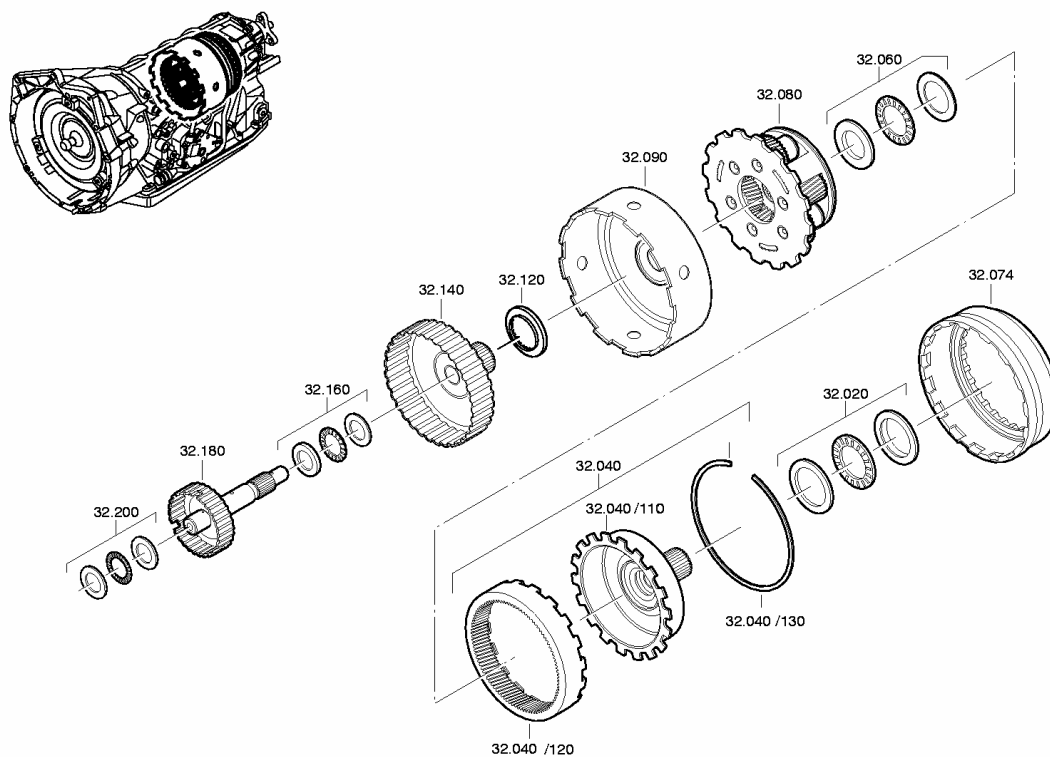


**Note:** Parts marked with \* are only available in kits.



## 5HP19 Spare Parts – Planetary Drive Groups

| Pos #      | ZF Part #    | Description          | Qty | Where used<br>(1060 000 ____) | Notes |
|------------|--------------|----------------------|-----|-------------------------------|-------|
| 32.020     | 1056 232 105 | Bearing Set          | 1   | All                           |       |
| 32.040     | 1060 232 026 | Shaft                | 1   | All                           |       |
| 32.040/110 | 1056 232 085 | Shaft                | 1   | All                           |       |
| 32.040/120 | 1060 332 028 | Ring Gear            | 1   | All                           |       |
| 32.040/130 | 0730 513 330 | Snap Ring            | 1   | All                           |       |
| 32.060     | 1056 232 104 | Bearing Set          | 1   | All                           |       |
| 32.074     | 1050 317 060 | Spider Clutch Bell   | 1   | All                           |       |
| 32.080     | 1060 232 032 | Planet Carrier       | 1   | All                           |       |
| 32.090     | 1060 232 041 | Sun Gear             | 1   | All                           |       |
| 32.120     | 0735 368 043 | Axial Needle Bearing | 1   | All                           |       |
| 32.140     | 1060 202 001 | Sun Gear Shaft       | 1   | All                           |       |
| 32.160     | 1056 232 101 | Bearing Set          | 1   | All                           |       |
| 32.180     | 1056 232 071 | Intermediate Shaft   | 1   | All                           |       |
| 32.200     | 1056 232 099 | Bearing Set          | 1   | All                           |       |

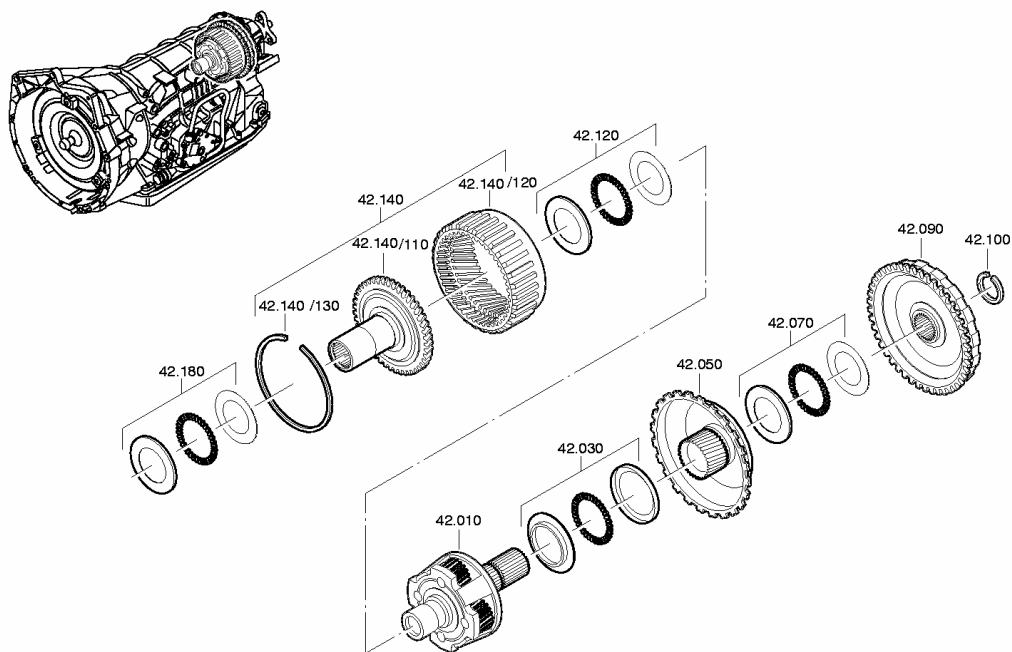


**Note:** Parts marked with \* are only available in kits.



## 5HP19 Spare Parts – Planetary Drive Groups (continued)

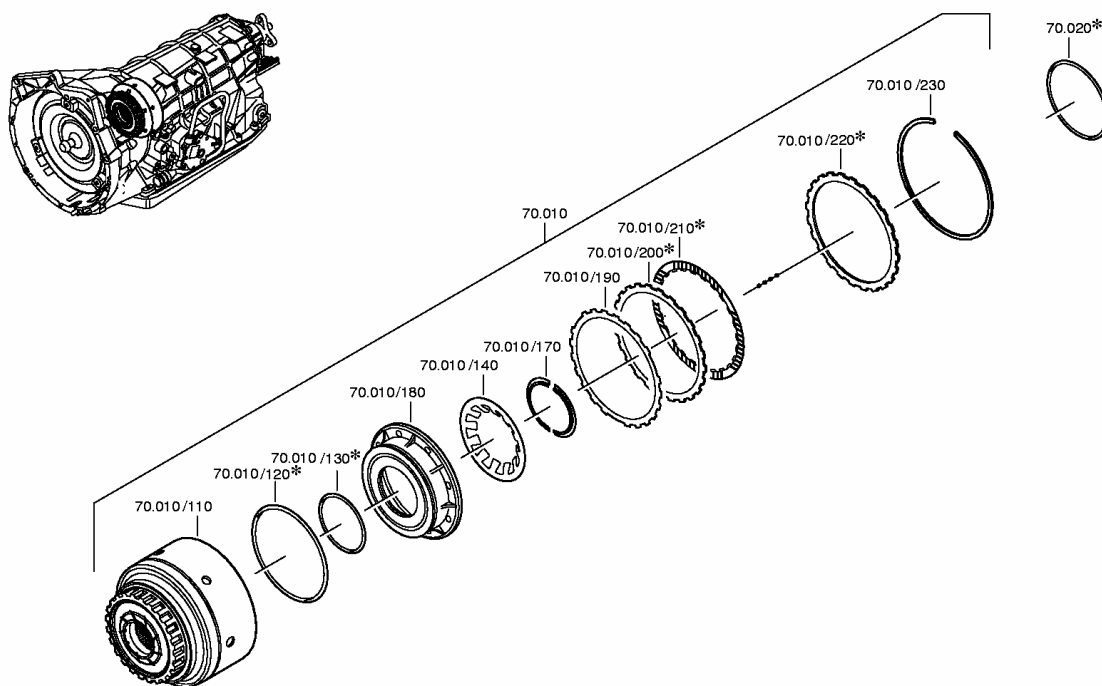
| Pos #      | ZF Part #    | Description        | Qty | Where used<br>(1060 000 ____) | Notes |
|------------|--------------|--------------------|-----|-------------------------------|-------|
| 42.010     | 1060 242 010 | Planet Carrier     | 1   | All                           |       |
| 42.030     | 1056 242 039 | Bearing Set        | 1   | All                           |       |
| 42.050     | 1056 232 083 | Sun Gear           | 1   | All                           |       |
| 42.070     | 1056 242 038 | Bearing Set        | 1   | All                           |       |
| 42.090     | 1056 242 016 | Parking Lock Wheel | 1   | All                           |       |
| 42.100     | 0630 513 031 | Snap Ring          | 1   | All                           |       |
| 42.120     | 1056 242 038 | Bearing Set        | 1   | All                           |       |
| 42.140     | 1056 242 041 | Ring Gear          | 1   | All                           |       |
| 42.140/110 | 1056 242 017 | Ring Gear Carrier  | 1   | All                           |       |
| 42.140/120 | 1056 332 010 | Ring Gear          | 1   | All                           |       |
| 42.140/130 | 1056 332 012 | Snap Ring          | 1   | All                           |       |
| 42.180     | 1056 242 038 | Bearing Set        | 1   | All                           |       |



**Note:** Parts marked with \* are only available in kits.

## 5HP19 Spare Parts – Clutch Pack Groups

| Pos #      | ZF Part #    | Description        | Qty | Where used<br>(1060 000 ____) | Notes                           |
|------------|--------------|--------------------|-----|-------------------------------|---------------------------------|
| 70.010     | 1060 270 084 | Cylinder A         | 1   | 005/009/010                   |                                 |
|            | 1060 270 085 | Cylinder A         | 1   | 008                           |                                 |
| 70.010/110 | 1060 370 060 | Cylinder A         | 1   | 005/009/010                   |                                 |
|            | 1060 370 061 | Cylinder A         | 1   | 008                           |                                 |
| 70.010/120 | 0734 313 014 | O-Ring             | 1   | All                           | * Available in kit 1060 298 030 |
| 70.010/130 | 0734 313 029 | O-Ring             | 1   | All                           | * Available in kit 1060 298 030 |
| 70.010/140 | 0501 315 926 | Cup Spring         | 1   | All                           |                                 |
| 70.010/170 | 1056 370 034 | Stop Ring          | 1   | All                           |                                 |
| 70.010/180 | 1056 370 050 | Piston             | 1   | All                           |                                 |
| 70.010/190 | 1050 302 012 | Spring Clutch Disc | 1   | All                           |                                 |
| 70.010/200 | 1060 370 002 | Steel Plate A      | 4   | 008                           | * Available in kit 1060 298 027 |
|            | 1060 370 002 | Steel Plate A      | 5   | 005/009/010                   | * Available in kit 1060 298 027 |
| 70.010/210 | 1060 271 005 | Friction Plate A   | 4   | 008                           | * Available in kit 1060 298 023 |
|            | 1060 271 005 | Friction Plate A   | 5   | 005/009/010                   | * Available in kit 1060 298 023 |
| 70.010/220 | 1060 370 003 | End Plate A        | 1   | All                           | * Available in kit 1060 298 027 |
| 70.010/230 | See Page 30  | Clutch A Snap Ring | 1   | All                           | Selective Snap Ring             |
| 70.020     | 0734 313 163 | O-Ring             | 1   | All                           | * Available in kit 1060 298 030 |

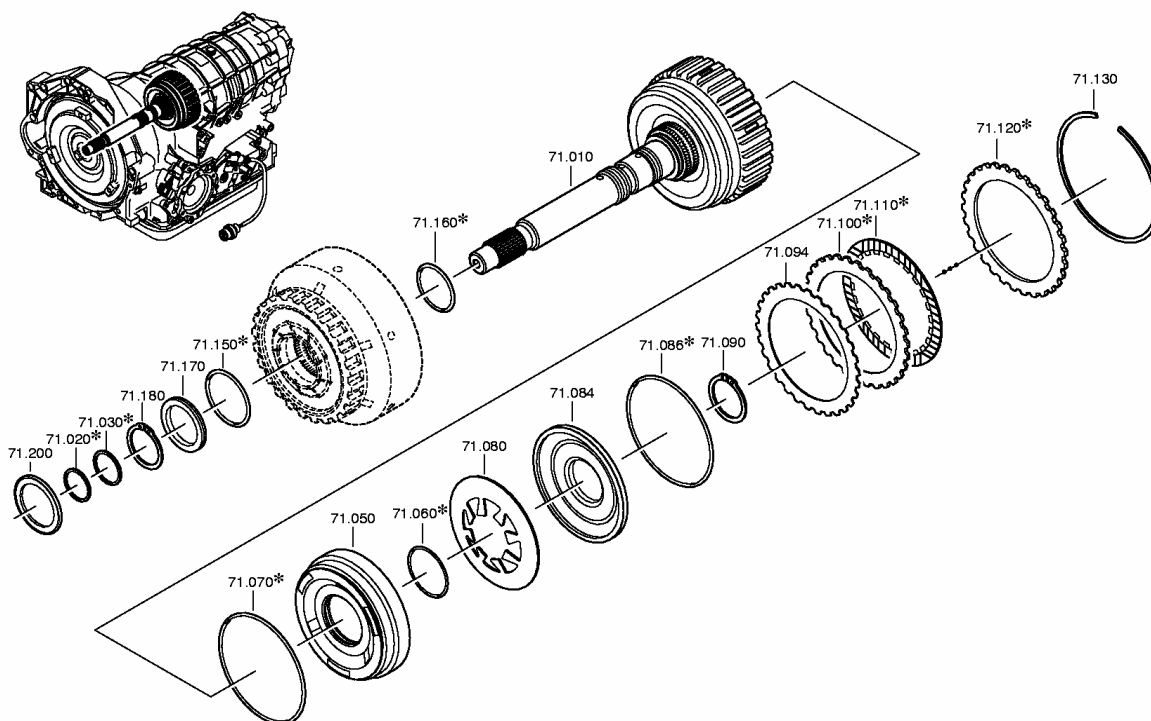


**Note:** Parts marked with \* are only available in kits.



## 5HP19 Spare Parts – Clutch Pack Groups (continued)

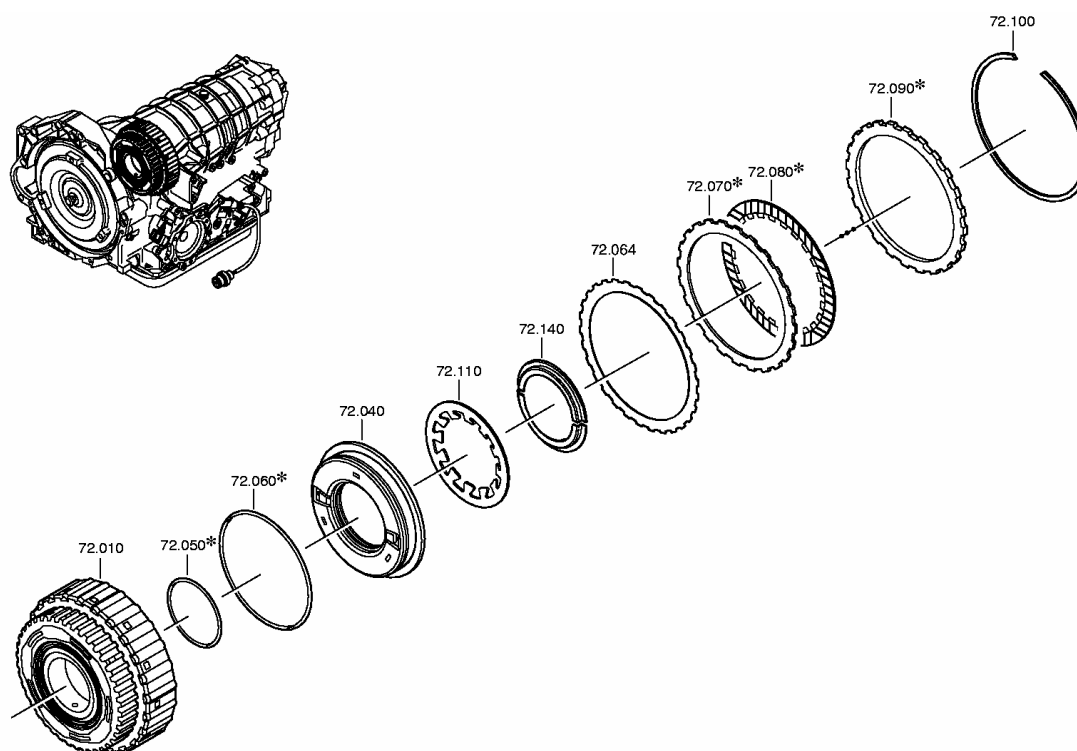
| Pos #  | ZF Part #    | Description          | Qty | Where used<br>(1060 000 ____) | Notes                           |
|--------|--------------|----------------------|-----|-------------------------------|---------------------------------|
| 71.010 | 1060 271 007 | Input Shaft          | 1   | All                           |                                 |
| 71.020 | 0734 317 256 | Piston Ring          | 1   | All                           | * Available in kit 1060 298 030 |
| 71.030 | 0734 317 190 | Sealing Ring         | 1   | All                           | * Available in kit 1060 298 030 |
| 71.050 | 1056 371 060 | Piston               | 1   | 008                           |                                 |
|        | 1056 371 061 | Piston               | 1   | 005/009/010                   |                                 |
| 71.060 | 0734 313 022 | O-Ring               | 1   | All                           | * Available in kit 1060 298 030 |
| 71.070 | 0734 313 027 | O-Ring               | 1   | All                           | * Available in kit 1060 298 030 |
| 71.080 | 0501 315 427 | Cup Spring           | 1   | All                           |                                 |
| 71.084 | 1056 371 025 | Oil Dam              | 1   | All                           |                                 |
| 71.086 | 0734 313 008 | O-Ring               | 1   | All                           | * Available in kit 1060 298 030 |
| 71.090 | 0630 501 030 | Retaining Ring       | 1   | All                           |                                 |
| 71.094 | 0501 314 765 | Spring Clutch Disc   | 1   | All                           |                                 |
| 71.100 | 1060 371 002 | Steel Plate E        | 4   | 008                           | * Available in kit 1060 298 027 |
|        | 1060 371 002 | Steel Plate E        | 5   | 005/009/010                   | * Available in kit 1060 298 027 |
| 71.110 | 1050 230 032 | Friction Plate E     | 4   | 008                           | * Available in kit 1060 298 023 |
|        | 1050 230 032 | Friction Plate E     | 5   | 005/009/010                   | * Available in kit 1060 298 023 |
| 71.120 | 1060 371 003 | End Plate E          | 1   | All                           | * Available in kit 1060 298 027 |
| 71.130 | See Page 30  | Clutch E Snap Ring   | 1   | All                           | Selective Snap Ring             |
| 71.150 | 0734 313 160 | O-Ring               | 1   | All                           | * Available in kit 1060 298 030 |
| 71.160 | 0734 313 211 | O-Ring               | 1   | All                           | * Available in kit 1060 298 030 |
| 71.170 | 1056 370 051 | Ring                 | 1   | All                           |                                 |
| 71.180 | 0730 501 482 | Retaining Ring       | 1   | All                           |                                 |
| 71.200 | 0735 368 038 | Axial Needle Bearing | 1   | All                           |                                 |



**Note:** Parts marked with \* are only available in kits.

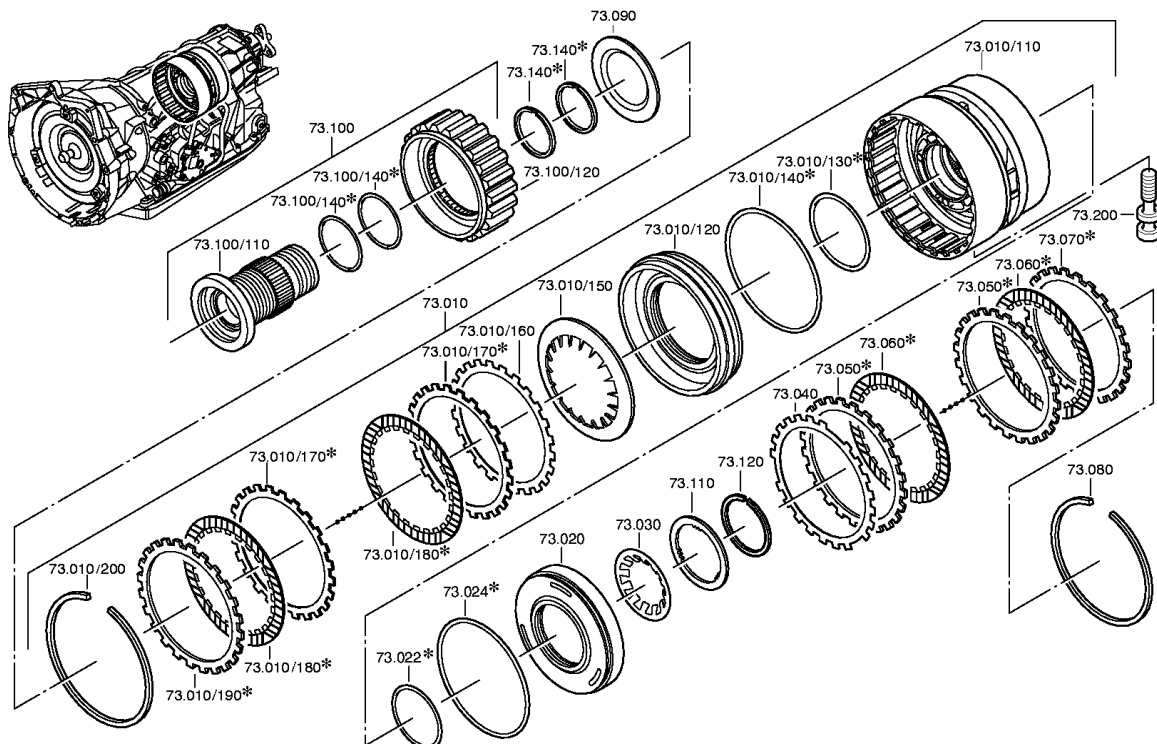
## 5HP19 Spare Parts – Clutch Pack Groups (continued)

| Pos #  | ZF Part #    | Description        | Qty | Where used<br>(1060 000 ____) | Notes                           |
|--------|--------------|--------------------|-----|-------------------------------|---------------------------------|
| 72.010 | 1056 272 051 | Cylinder B         | 1   | All                           |                                 |
| 72.040 | 1060 272 008 | Piston             | 1   | All                           |                                 |
| 72.050 | 0734 313 010 | O-Ring             | 1   | All                           | * Available in kit 1060 298 030 |
| 72.060 | 0734 313 007 | O-Ring             | 1   | All                           | * Available in kit 1060 298 030 |
| 72.064 | 0501 315 488 | Undulated Spring   | 1   | All                           |                                 |
| 72.070 | 1060 372 002 | Steel Plate B      | 2   | All                           | * Available in kit 1060 298 027 |
| 72.080 | 1060 272 003 | Friction Plate B   | 2   | All                           | * Available in kit 1060 298 023 |
| 72.090 | 1060 372 003 | End Plate B        | 1   | All                           | * Available in kit 1060 298 027 |
| 72.100 | See Page 30  | Clutch B Snap Ring | 1   | All                           | Selective Snap Ring             |
| 72.110 | 0501 315 493 | Cup Spring         | 1   | All                           |                                 |
| 72.140 | 1056 310 061 | Stop Ring          | 1   | All                           |                                 |



**Note:** Parts marked with \* are only available in kits.

| Pos #      | ZF Part #    | Description        | Qty | Where used<br>(1060 000 ____) | Notes                           |
|------------|--------------|--------------------|-----|-------------------------------|---------------------------------|
| 73.010     | 1060 273 004 | Cylinder D         | 1   | 005/009/010                   |                                 |
|            | 1060 273 010 | Cylinder D         | 1   | 008                           |                                 |
| 73.010/110 | 1056 373 032 | Cylinder D         | 1   | 005/009/010                   |                                 |
|            | 1056 373 033 | Cylinder D         | 1   | 008                           |                                 |
| 73.010/120 | 1050 317 050 | Piston             | 1   | All                           |                                 |
| 73.010/130 | 0734 313 008 | O-Ring             | 1   | All                           | * Available in kit 1060 298 030 |
| 73.010/140 | 0734 313 006 | O-Ring             | 1   | All                           | * Available in kit 1060 298 030 |
| 73.010/150 | 0501 316 285 | Cup Spring         | 1   | All                           |                                 |
| 73.010/160 | 1056 373 003 | Spring Clutch Disc | 1   | All                           |                                 |
| 73.010/170 | 1060 370 002 | Steel Plate D      | 5   | 008                           | * Available in kit 1060 298 027 |
|            | 1060 370 002 | Steel Plate D      | 6   | 005/009/010                   | * Available in kit 1060 298 027 |
| 73.010/180 | 1050 217 002 | Friction Plate D   | 5   | 008                           | * Available in kit 1060 298 023 |
|            | 1050 217 002 | Friction Plate D   | 6   | 005/009/010                   | * Available in kit 1060 298 023 |
| 73.010/190 | 1060 370 003 | End Plate D        | 1   | All                           | * Available in kit 1060 298 027 |
| 73.010/200 | See Page 31  | Clutch D Snap Ring | 1   | All                           | Selective Snap Ring             |
| 73.020     | 1060 373 013 | Piston             | 1   | All                           |                                 |
| 73.022     | 0734 313 021 | O-Ring             | 1   | All                           | * Available in kit 1060 298 030 |
| 73.024     | 0734 313 010 | O-Ring             | 1   | All                           | * Available in kit 1060 298 030 |

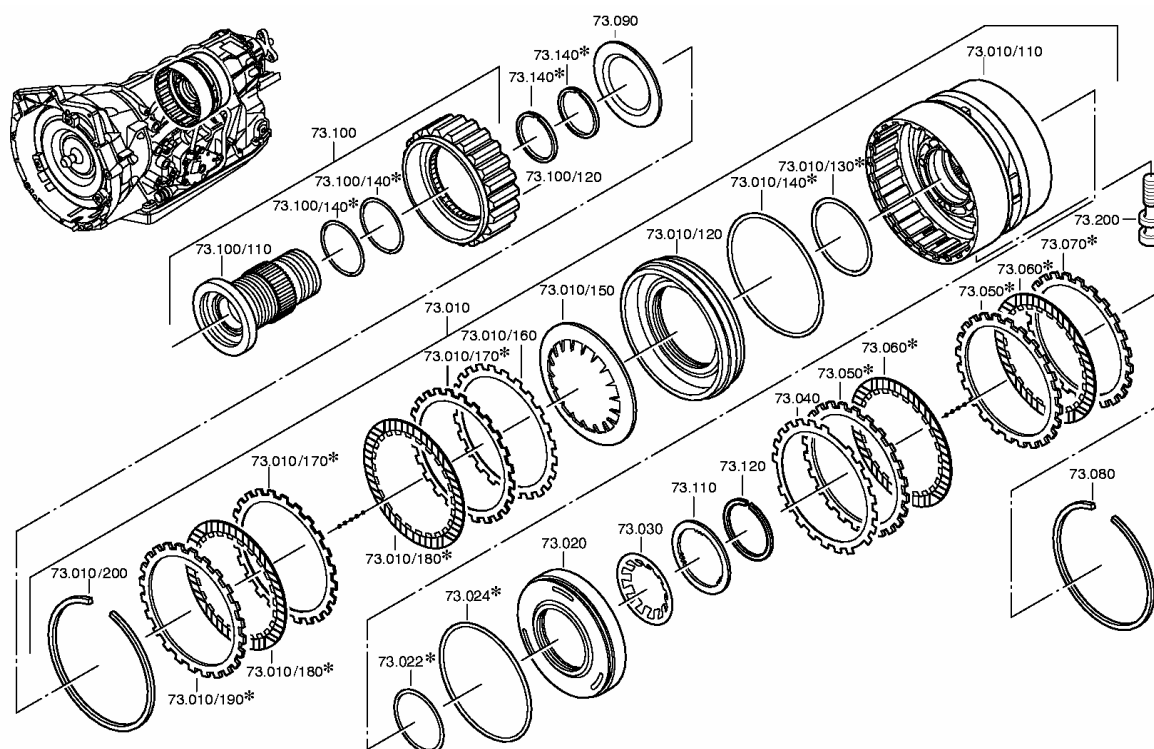


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## 5HP19 Spare Parts – Clutch Pack Groups (continued)

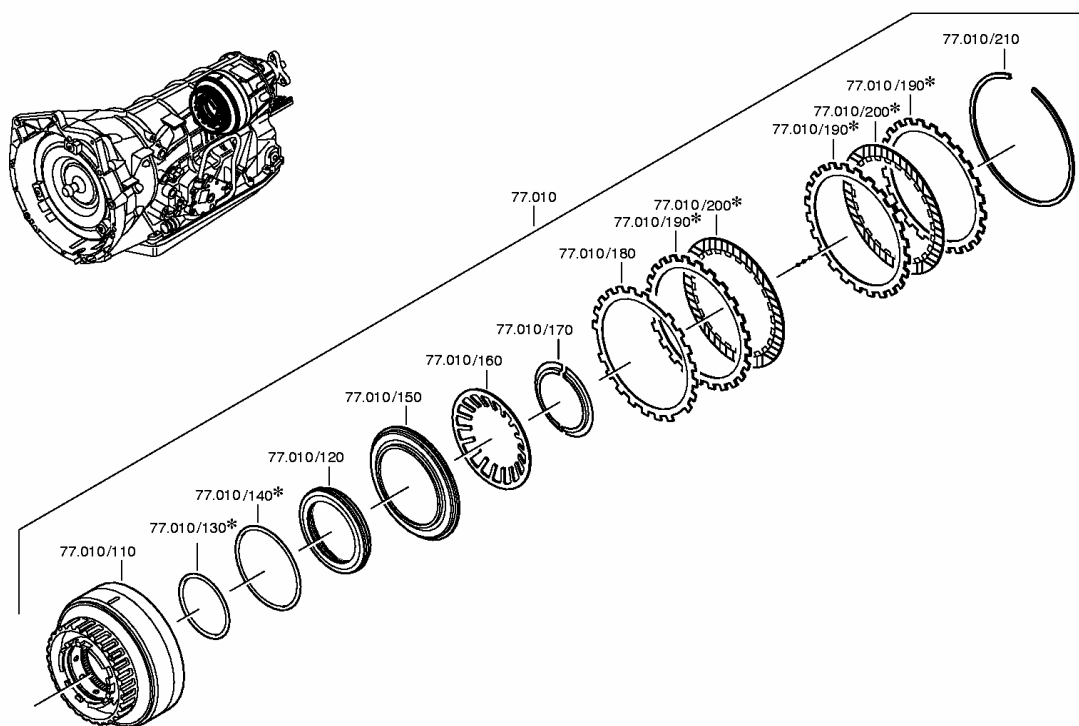
| Pos #      | ZF Part #    | Description        | Qty | Where used<br>(1060 000 ____) | Notes                           |
|------------|--------------|--------------------|-----|-------------------------------|---------------------------------|
| 73.030     | 0501 315 932 | Cup Spring         | 1   | All                           |                                 |
| 73.040     | 0501 315 943 | Undulated Spring   | 1   | All                           |                                 |
| 73.050     | 1060 377 003 | Steel Plate G      | 3   | 008                           | * Available in kit 1060 298 027 |
|            | 1060 377 003 | Steel Plate G      | 4   | 005/009/010                   | * Available in kit 1060 298 027 |
| 73.060     | 1060 273 005 | Friction Plate G   | 3   | 008                           | * Available in kit 1060 298 023 |
|            | 1060 273 005 | Friction Plate G   | 4   | 005/009/010                   | * Available in kit 1060 298 023 |
| 73.070     | 1060 377 004 | End Plate G        | 1   | All                           | * Available in kit 1060 298 027 |
| 73.080     | See Page 31  | Clutch G Snap Ring | 1   | All                           | Selective Snap Ring             |
| 73.090     | 1056 373 021 | Fixing Washer      | 1   | All                           |                                 |
| 73.100     | 1060 273 035 | Carrier            | 1   | All                           |                                 |
| 73.100/110 | 1060 273 028 | Carrier            | 1   | All                           |                                 |
| 73.100/120 | 1060 273 034 | Free Wheel         | 1   | All                           |                                 |
| 73.100/140 | 0734 313 086 | O-Ring             | 2   | All                           | * Available in kit 1060 298 030 |
| 73.110     | 1056 376 005 | Thrust Washer      | 1   | All                           |                                 |
| 73.120     | 0730 513 461 | Snap Ring          | 1   | All                           |                                 |
| 73.140     | 0734 317 205 | Piston Ring        | 2   | All                           | * Available in kit 1060 298 030 |
| 73.200     | 0736 101 137 | Torx Screw M10x55  | 3   | All                           |                                 |



**Note:** Parts marked with \* are only available in kits.

## 5HP19 Spare Parts – Clutch Pack Groups (continued)

| Pos #      | ZF Part #    | Description        | Qty | Where used<br>(1060 000 ____) | Notes                           |
|------------|--------------|--------------------|-----|-------------------------------|---------------------------------|
| 77.010     | 1060 277 021 | Cylinder F         | 1   | 005/009/010                   |                                 |
|            | 1060 277 022 | Cylinder F         | 1   | 008                           |                                 |
| 77.010/110 | 1060 277 010 | Cylinder F         | 1   | 005/009/010                   |                                 |
|            | 1060 277 018 | Cylinder F         | 1   | 008                           |                                 |
| 77.010/120 | 1056 377 038 | Piston             | 1   | All                           |                                 |
| 77.010/130 | 0734 313 008 | O-Ring             | 1   | All                           | * Available in kit 1060 298 030 |
| 77.010/140 | 0734 313 010 | O-Ring             | 1   | All                           | * Available in kit 1060 298 030 |
| 77.010/150 | 1060 377 016 | Pressure Plate     | 1   | All                           |                                 |
| 77.010/160 | 0501 315 931 | Cup Spring         | 1   | All                           |                                 |
| 77.010/170 | 1060 377 009 | Stop Ring          | 1   | All                           |                                 |
| 77.010/180 | 0501 315 943 | Undulated Spring   | 1   | All                           |                                 |
|            |              |                    |     |                               |                                 |
| 77.010/190 | 1060 377 002 | Steel Plate F      | 5   | 008                           | * Available in kit 1060 298 027 |
|            | 1060 377 002 | Steel Plate F      | 6   | 005/009/010                   | * Available in kit 1060 298 027 |
| 77.010/200 | 1060 273 005 | Friction Plate F   | 4   | 008                           | * Available in kit 1060 298 023 |
|            | 1060 273 005 | Friction Plate F   | 5   | 005/009/010                   | * Available in kit 1060 298 023 |
| 77.010/210 | See Page 31  | Clutch F Snap Ring | 1   | All                           | Selective Snap Ring             |



**Note:** Parts marked with \* are only available in kits.



## 5HP19 Valve Body – Duct Plate Group

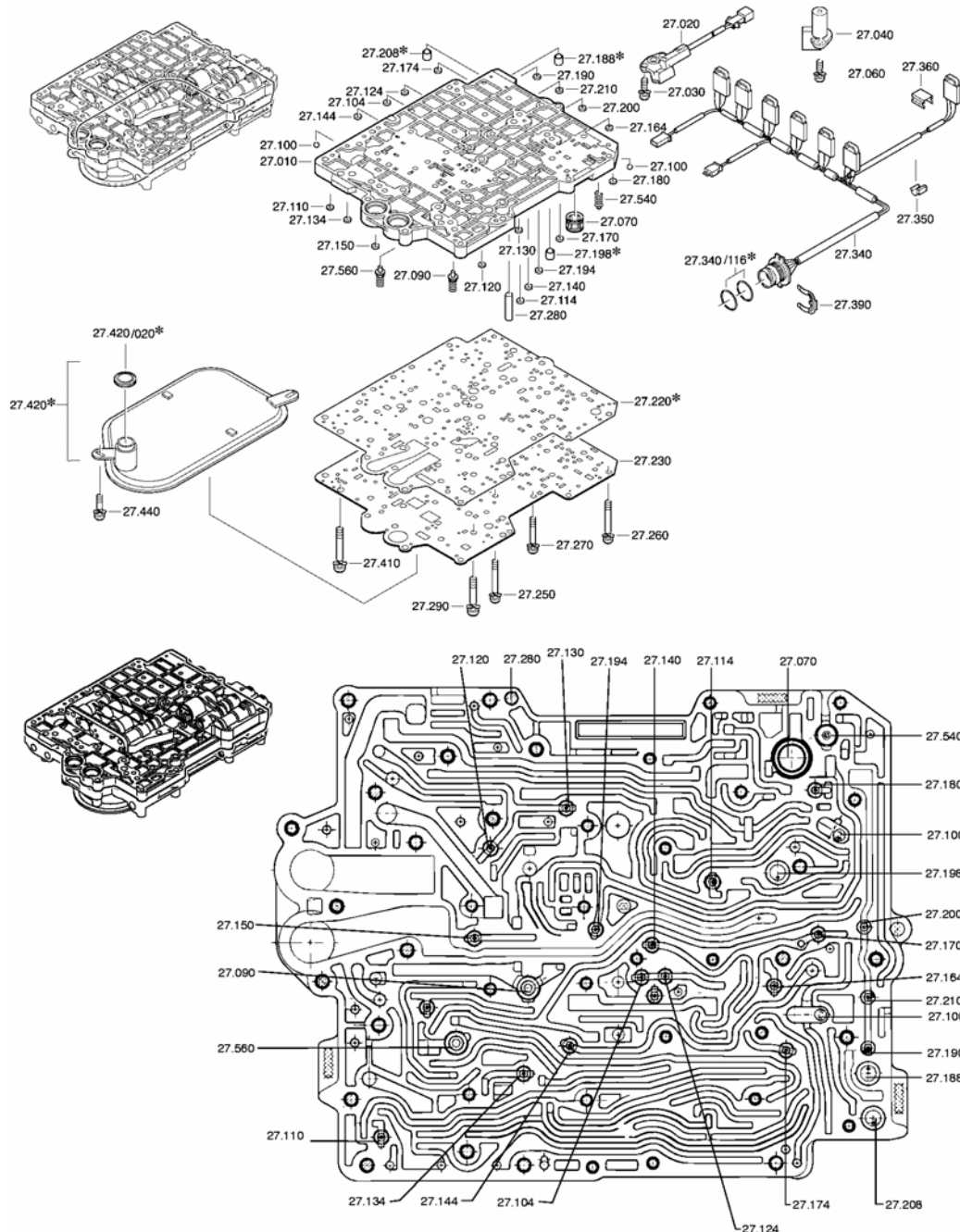
| Pos #      | ZF Part #    | Description                | Qty | Where used<br>(1060 000 ____) | Notes                           |
|------------|--------------|----------------------------|-----|-------------------------------|---------------------------------|
| 27.010     | 1060 327 142 | Duct Plate                 | 1   | All                           |                                 |
| 27.020     | 0501 210 474 | Speed Sensor (Hall Effect) | 1   | All                           |                                 |
| 27.030     | 0736 101 233 | Torx Screw M6x15           | 1   | All                           |                                 |
| 27.040     | 0501 311 086 | Speed Sensor               | 1   | All                           |                                 |
| 27.060     | 0736 101 397 | Torx Screw M5x18           | 2   | All                           |                                 |
| 27.070     | 0501 313 177 | Screen                     | 1   | All                           |                                 |
| 27.090     | 1060 227 019 | Valve                      | 1   | All                           |                                 |
| 27.100     | 1043 326 037 | Ball                       | 2   | All                           |                                 |
| 27.104     | 1056 327 039 | Valve Orifice D=1.7        | 1   | All                           |                                 |
| 27.110     | 1056 327 077 | Valve Orifice D=2.5        | 1   | All                           |                                 |
| 27.114     | 1056 327 039 | Valve Orifice D=1.7        | 1   | All                           |                                 |
| 27.120     | 1056 327 039 | Valve Orifice D=1.7        | 1   | All                           |                                 |
| 27.124     | 1056 327 018 | Valve Orifice D=0.8        | 1   | All                           |                                 |
| 27.130     | 1056 327 020 | Valve Orifice D=1.2        | 1   | All                           |                                 |
| 27.134     | 1056 327 045 | Valve Orifice D=1.9        | 1   | All                           |                                 |
| 27.140     | 1056 327 020 | Valve Orifice D=1.2        | 1   | All                           |                                 |
| 27.144     | 1056 327 077 | Valve Orifice D=2.5        | 1   | All                           |                                 |
| 27.150     | 1056 327 019 | Valve Orifice D=1.0        | 1   | All                           |                                 |
| 27.164     | 1056 327 020 | Valve Orifice D=1.2        | 1   | All                           |                                 |
| 27.170     | 1056 327 094 | Valve Orifice D=1.4        | 1   | All                           |                                 |
| 27.174     | 1056 327 040 | Valve Orifice (solid)      | 1   | All                           |                                 |
| 27.180     | 1019 327 063 | Valve Orifice D=1.0        | 1   | All                           |                                 |
| 27.188     | 0501 314 645 | Rubber Part                | 1   | All                           | * Available in kit 1060 298 030 |
|            | 1068 227 039 | Piston                     | 1   | All                           | * Available in kit 1060 298 030 |
| 27.190     | 1019 327 063 | Valve Orifice D=1.0        | 1   | All                           |                                 |
| 27.194     | 1056 327 020 | Valve Orifice D=1.2        | 1   | All                           |                                 |
| 27.198     | 0501 314 645 | Rubber Part                | 1   | All                           | * Available in kit 1060 298 030 |
|            | 1068 227 039 | Piston                     | 1   | All                           | * Available in kit 1060 298 030 |
| 27.200     | 1019 327 063 | Valve Orifice D=1.0        | 1   | All                           |                                 |
| 27.208     | 0501 314 645 | Rubber Part                | 1   | All                           | * Available in kit 1060 298 030 |
|            | 1068 227 039 | Piston                     | 1   | All                           | * Available in kit 1060 298 030 |
| 27.210     | 1019 327 063 | Valve Orifice D=1.0        | 1   | All                           |                                 |
| 27.220     | 1060 327 075 | Gasket                     | 1   | All                           | * Available in kit 1060 298 030 |
| 27.230     | 1060 327 128 | Intermediate Sheet         | 1   | All                           |                                 |
| 27.250     | 0736 101 354 | Torx Screw M5x60           | 4   | All                           |                                 |
| 27.260     | 0736 101 354 | Torx Screw M5x60           | 7   | All                           |                                 |
| 27.270     | 0736 101 352 | Torx Screw M5x40           | 10  | All                           |                                 |
| 27.280     | 0631 302 165 | Cylindrical Pin            | 1   | All                           |                                 |
| 27.290     | 0736 101 350 | Torx Screw M6x44           | 7   | All                           |                                 |
| 27.340     | 1060 227 021 | Wiring Harness             | 1   | All                           |                                 |
| 27.340/116 | 0501 209 253 | O-Ring                     | 2   | All                           | * Available in kit 1060 298 030 |
| 27.350     | 0501 305 955 | Cable Terminal             | 1   | All                           |                                 |
| 27.360     | 0501 315 055 | Clip                       | 1   | All                           |                                 |
| 27.390     | 1058 327 026 | Retaining Clamp            | 1   | All                           |                                 |
| 27.410     | 0736 101 348 | Torx Screw M6x59           | 14  | All                           |                                 |
| 27.420     | 0501 210 388 | Filter                     | 1   | All                           | * Available in kit 5HP19FK      |

**Note:** Parts marked with \* are only available in kits.



## 5HP19 Valve Body – Duct Plate Group (continued)

| Pos #      | ZF Part #    | Description      | Qty | Where used<br>(1060 000 ____) | Notes                                                         |
|------------|--------------|------------------|-----|-------------------------------|---------------------------------------------------------------|
| 27.420/020 | 0501 314 578 | Sealing Ring     | 1   | All                           | * Available in kit 1060 298 030<br>* Available in kit 5HP19FK |
| 27.440     | 0736 101 372 | Torx Screw M5x12 | 2   | All                           |                                                               |
| 27.540     | 1060 227 020 | Valve            | 1   | All                           |                                                               |
| 27.560     | 1060 227 020 | Valve            | 1   | All                           |                                                               |

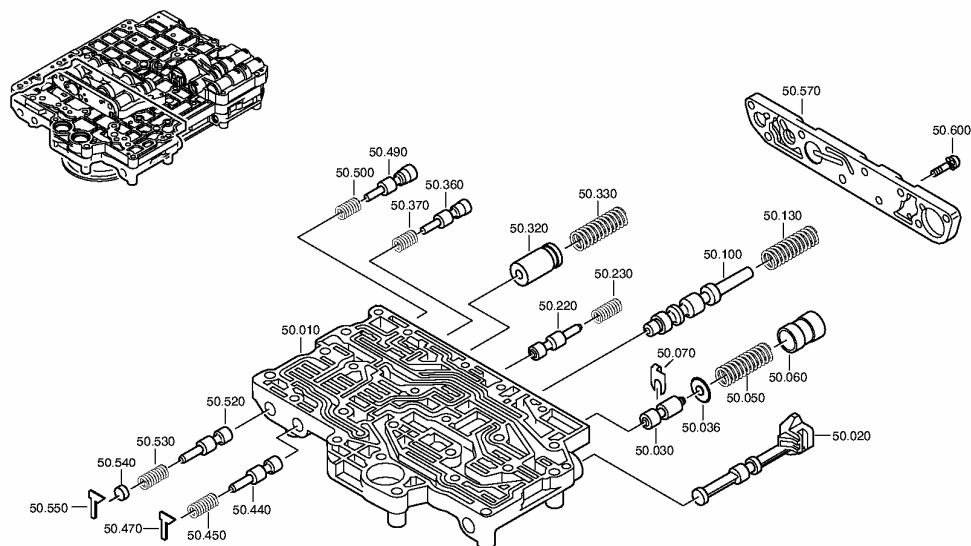


**Note:** Parts marked with \* are only available in kits.



## 5HP19 Valve Body – Valve Housing Groups

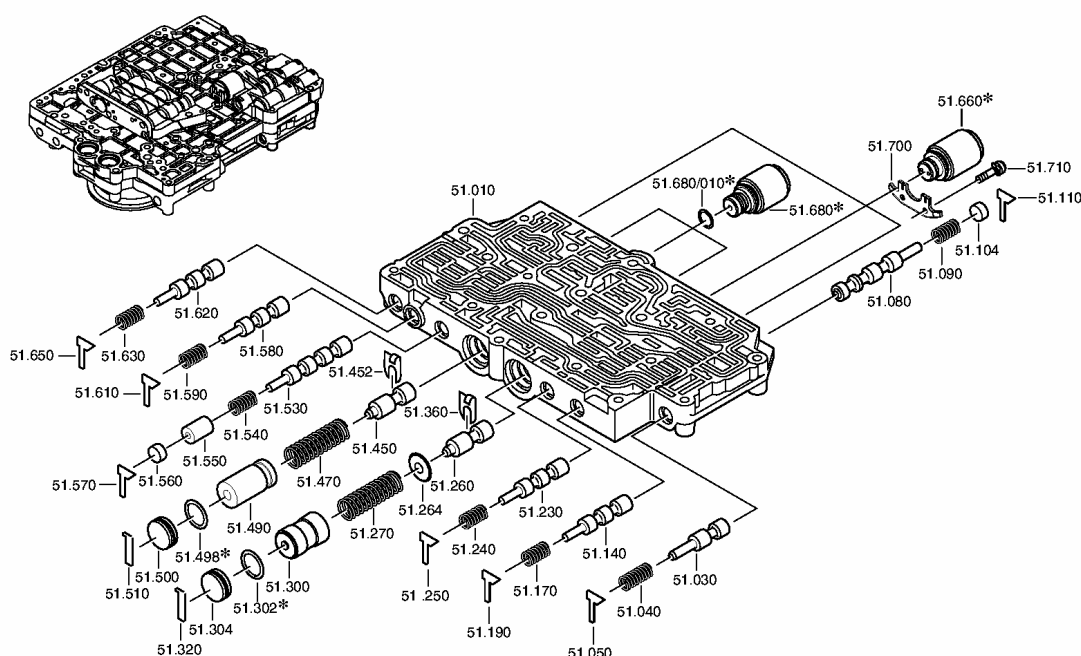
| Pos #  | ZF Part #    | Description          | Qty | Where used<br>(1060 000 ____) | Notes |
|--------|--------------|----------------------|-----|-------------------------------|-------|
| 50.010 | 1060 327 138 | Valve Housing        | 1   | All                           |       |
| 50.020 | 1056 327 173 | Selector Shift Valve | 1   | All                           |       |
| 50.030 | 1056 327 003 | Piston               | 1   | All                           |       |
| 50.036 | 1024 323 202 | Spring Cup           | 1   | All                           |       |
| 50.050 | 0732 041 524 | Compression Spring   | 1   | All                           |       |
| 50.060 | 1056 327 183 | Piston               | 1   | All                           |       |
| 50.070 | 1056 327 142 | Stop Plate           | 1   | All                           |       |
| 50.100 | 1060 327 096 | Piston               | 1   | All                           |       |
| 50.130 | 0732 041 197 | Compression Spring   | 1   | All                           |       |
| 50.220 | 1043 326 169 | Valve Spool          | 1   | All                           |       |
| 50.230 | 0732 041 462 | Compression Spring   | 1   | All                           |       |
| 50.320 | 1058 327 017 | Damper Piston        | 1   | All                           |       |
| 50.330 | 0732 042 653 | Compression Spring   | 1   | All                           |       |
| 50.360 | 1055 327 059 | Piston               | 1   | All                           |       |
| 50.370 | 0732 042 567 | Compression Spring   | 1   | All                           |       |
| 50.440 | 1043 326 169 | Valve Spool          | 1   | All                           |       |
| 50.450 | 0732 042 660 | Compression Spring   | 1   | All                           |       |
| 50.470 | 1068 327 007 | Support Plate        | 1   | All                           |       |
| 50.490 | 1060 327 105 | Piston               | 1   | All                           |       |
| 50.500 | 0732 041 527 | Compression Spring   | 1   | All                           |       |
| 50.520 | 1043 326 169 | Valve Spool          | 1   | All                           |       |
| 50.530 | 0732 042 660 | Compression Spring   | 1   | All                           |       |
| 50.540 | 1055 327 101 | Sealing Cap          | 1   | All                           |       |
| 50.550 | 1068 327 007 | Support Plate        | 1   | All                           |       |
| 50.570 | 1060 327 049 | Cover                | 1   | All                           |       |
| 50.600 | 0736 101 066 | Torx Screw M5x18     | 9   | All                           |       |



**Note:** Parts marked with \* are only available in kits.

## 5HP19 Valve Body – Valve Housing Groups (continued)

| Pos #  | ZF Part #    | Description        | Qty | Where used<br>(1060 000 ____) | Notes                           |
|--------|--------------|--------------------|-----|-------------------------------|---------------------------------|
| 51.010 | 1060 327 125 | Valve Housing      | 1   | All                           |                                 |
| 51.030 | 1043 326 169 | Valve Spool        | 1   | All                           |                                 |
| 51.040 | 0732 041 820 | Compression Spring | 1   | All                           |                                 |
| 51.050 | 1068 327 007 | Support Plate      | 1   | All                           |                                 |
| 51.080 | 1056 327 029 | Gear Shift Slide   | 1   | All                           |                                 |
| 51.090 | 0732 041 826 | Compression Spring | 1   | All                           |                                 |
| 51.104 | 1043 326 307 | Plug               | 1   | All                           |                                 |
| 51.110 | 1068 327 007 | Support Plate      | 1   | All                           |                                 |
| 51.140 | 1056 327 028 | Piston             | 1   | All                           |                                 |
| 51.170 | 0732 041 826 | Compression Spring | 1   | All                           |                                 |
| 51.190 | 1068 327 007 | Support Plate      | 1   | All                           |                                 |
| 51.230 | 1043 326 169 | Valve Spool        | 1   | All                           |                                 |
| 51.240 | 0732 041 826 | Compression Spring | 1   | All                           |                                 |
| 51.250 | 1068 327 007 | Support Plate      | 1   | All                           |                                 |
| 51.260 | 1056 327 003 | Piston             | 1   | All                           |                                 |
| 51.264 | 1024 323 202 | Spring Cup         | 1   | All                           |                                 |
| 51.270 | 0732 042 115 | Compression Spring | 1   | All                           |                                 |
| 51.300 | 1056 327 183 | Piston             | 1   | All                           |                                 |
| 51.302 | 0734 313 190 | O-Ring             | 1   | All                           | * Available in kit 1060 298 030 |
| 51.304 | 1060 327 068 | Plug               | 1   | All                           |                                 |
| 51.320 | 1060 327 119 | Locking Wire       | 1   | All                           |                                 |
| 51.360 | 1056 327 142 | Stop Plate         | 1   | All                           |                                 |
| 51.450 | 1060 327 116 | Piston             | 1   | All                           |                                 |

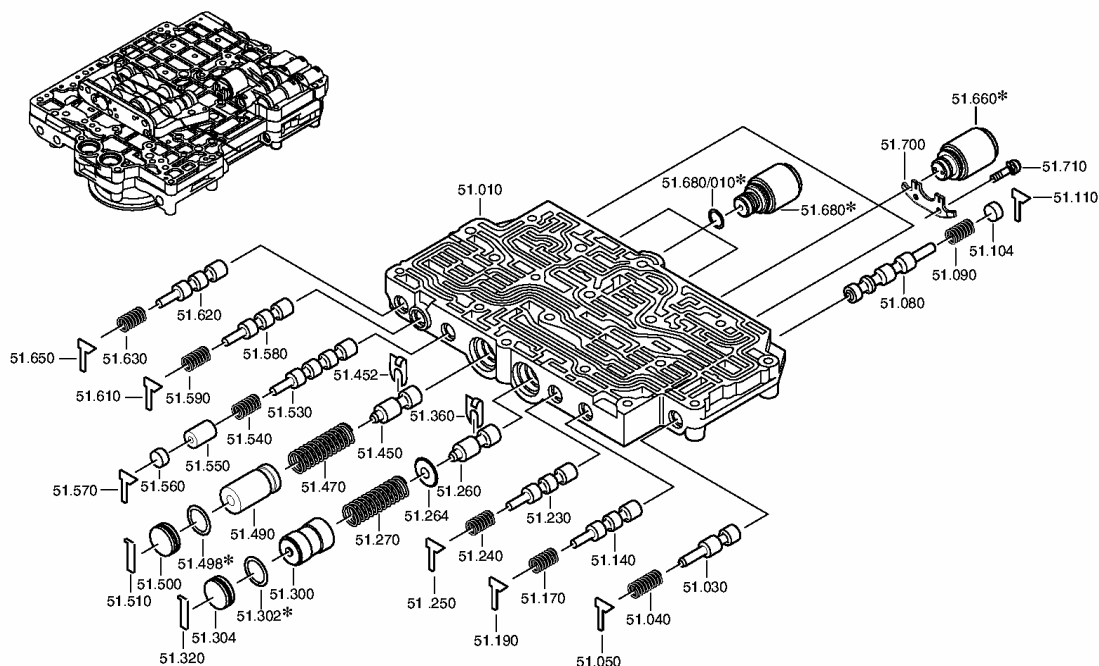


**Note:** Parts marked with \* are only available in kits.



## 5HP19 Valve Body – Valve Housing Groups (continued)

| Pos #      | ZF Part #    | Description        | Qty | Where used<br>(1060 000 ____) | Notes                                                              |
|------------|--------------|--------------------|-----|-------------------------------|--------------------------------------------------------------------|
| 51.452     | 1056 327 142 | Stop Plate         | 1   | All                           |                                                                    |
| 51.470     | 0732 042 653 | Compression Spring | 1   | All                           |                                                                    |
| 51.490     | 1058 327 017 | Damper Piston      | 1   | All                           |                                                                    |
| 51.498     | 0734 313 190 | O-Ring             | 1   | All                           | * Available in kit 1060 298 030                                    |
| 51.500     | 1060 327 068 | Plug               | 1   | All                           |                                                                    |
| 51.510     | 1060 327 119 | Locking Wire       | 1   | All                           |                                                                    |
| 51.530     | 1060 327 106 | Piston             | 1   | All                           |                                                                    |
| 51.540     | 0732 041 755 | Compression Spring | 1   | All                           |                                                                    |
| 51.550     | 1060 327 107 | Piston             | 1   | All                           |                                                                    |
| 51.560     | 1043 326 307 | Plug               | 1   | All                           |                                                                    |
| 51.570     | 1068 327 007 | Support Plate      | 1   | All                           |                                                                    |
| 51.580     | 1043 326 169 | Valve Spool        | 1   | All                           |                                                                    |
| 51.590     | 0732 041 337 | Compression Spring | 1   | All                           |                                                                    |
| 51.610     | 1068 327 007 | Support Plate      | 1   | All                           |                                                                    |
| 51.620     | 1056 327 028 | Piston             | 1   | All                           |                                                                    |
| 51.630     | 0732 041 826 | Compression Spring | 1   | All                           |                                                                    |
| 51.650     | 1068 327 007 | Support Plate      | 1   | All                           |                                                                    |
| 51.660     | 0501 316 463 | Solenoid Valve     | 3   | All                           | * Available in kit 1060 298 033                                    |
| 51.680     | 0501 210 019 | Pressure Regulator | 3   | All                           | * Available in kit 1060 298 033                                    |
| 51.680/010 | 0734 313 219 | O-Ring             | 3   | All                           | * Available in kit 1060 298 030<br>* Available in kit 1060 298 033 |
| 51.700     | 1056 327 135 | Fixing Plate       | 2   | All                           |                                                                    |
| 51.710     | 0736 101 094 | Torx Screw M5x12   | 4   | All                           |                                                                    |

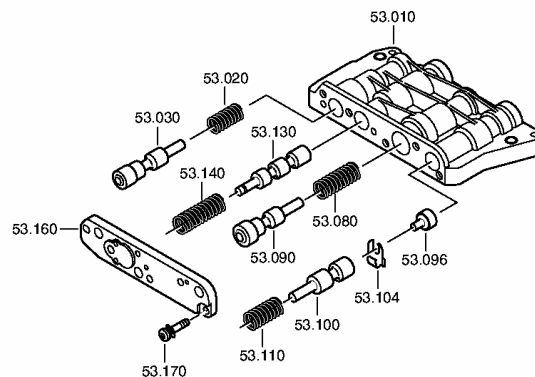
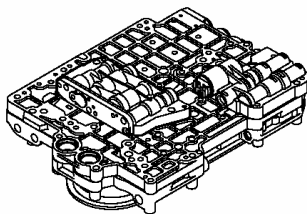


**Note:** Parts marked with \* are only available in kits.



## 5HP19 Valve Body – Valve Housing Groups (continued)

| Pos #  | ZF Part #    | Description        | Qty | Where used<br>(1060 000 ____) | Notes |
|--------|--------------|--------------------|-----|-------------------------------|-------|
| 53.010 | 1060 327 098 | Valve Housing      | 1   | 005/008/009                   |       |
| 53.010 | 1060 327 099 | Valve Housing      | 1   | 010                           |       |
| 53.020 | 0732 042 567 | Compression Spring | 1   | All                           |       |
| 53.030 | 1055 327 059 | Piston             | 1   | All                           |       |
| 53.080 | 0732 041 109 | Compression Spring | 1   | All                           |       |
| 53.090 | 1058 327 016 | Piston             | 1   | 010                           |       |
|        | 1058 327 024 | Piston             | 1   | 005/008/009                   |       |
| 53.096 | 1060 327 104 | Piston             | 1   | All                           |       |
| 53.100 | 1043 327 078 | Piston             | 1   | All                           |       |
| 53.104 | 1056 327 078 | Stop Plate         | 1   | All                           |       |
| 53.110 | 0732 042 534 | Compression Spring | 1   | All                           |       |
| 53.130 | 1060 327 045 | Valve Housing      | 1   | All                           |       |
| 53.140 | 0732 041 781 | Compression Spring | 1   | All                           |       |
| 53.160 | 1060 327 050 | Cover              | 1   | All                           |       |
| 53.170 | 0736 101 066 | Torx Screw M5x18   | 5   | All                           |       |

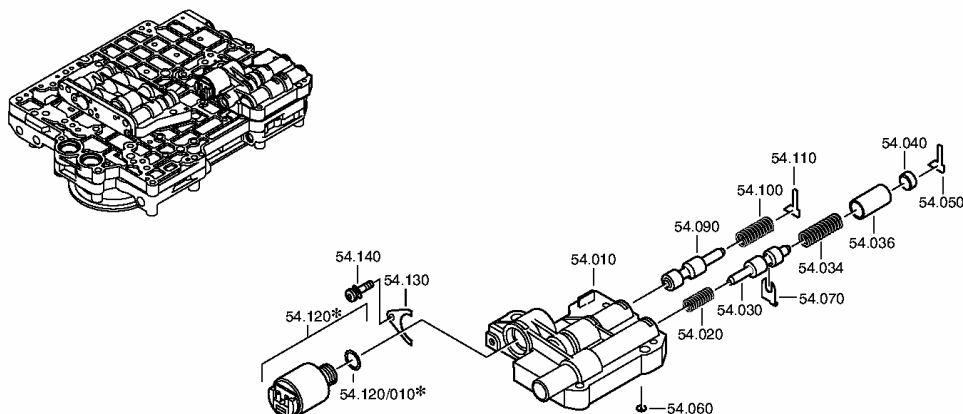


**Note:** Parts marked with \* are only available in kits.



## 5HP19 Valve Body – Valve Housing Groups (continued)

| Pos #      | ZF Part #    | Description         | Qty | Where used<br>(1060 000 ____) | Notes                                                              |
|------------|--------------|---------------------|-----|-------------------------------|--------------------------------------------------------------------|
| 54.010     | 1060 327 081 | Valve Housing       | 1   | All                           |                                                                    |
| 54.020     | 0732 042 567 | Compression Spring  | 1   | All                           |                                                                    |
| 54.030     | 1056 328 013 | Piston              | 1   | All                           |                                                                    |
| 54.034     | 0732 042 568 | Compression Spring  | 1   | All                           |                                                                    |
| 54.036     | 1056 327 177 | Piston              | 1   | All                           |                                                                    |
| 54.040     | 1060 327 053 | Plug                | 1   | All                           |                                                                    |
| 54.050     | 1068 327 007 | Support Plate       | 1   | All                           |                                                                    |
| 54.060     | 1060 327 044 | Valve Orifice D=1.2 | 1   | All                           |                                                                    |
| 54.070     | 1060 327 126 | Stop Plate          | 1   | All                           |                                                                    |
| 54.090     | 1043 326 169 | Valve Spool         | 1   | All                           |                                                                    |
| 54.100     | 0732 041 819 | Compression Spring  | 1   | All                           |                                                                    |
| 54.110     | 1068 327 007 | Support Plate       | 1   | All                           |                                                                    |
| 54.120     | 0501 210 725 | Pressure Regulator  | 1   | All                           | * Available in kit 1060 298 033                                    |
| 54.120/010 | 0634 316 523 | O-Ring              | 1   | All                           | * Available in kit 1060 298 030<br>* Available in kit 1060 298 033 |
| 54.130     | 1019 327 065 | Fixing Plate        | 1   | All                           |                                                                    |
| 54.140     | 0736 101 094 | Torx Screw M5x12    | 1   | All                           |                                                                    |



**Note:** Parts marked with \* are only available in kits.



## 5HP19 Selective Shims & Snap Rings

### 5HP19 Selective Snap Ring

| Pos #         | Select. Parts | Description               | Qty      | Where used (1060 000 ____) |
|---------------|---------------|---------------------------|----------|----------------------------|
| <b>10.340</b> |               | <b>Clutch C Snap Ring</b> | <b>1</b> | <b>All</b>                 |
|               | 1056 310 054  | Snap Ring A=1.40          |          |                            |
|               | 1056 310 055  | Snap Ring A=1.60          |          |                            |
|               | 1056 310 056  | Snap Ring A=1.80          |          |                            |
|               | 1056 310 057  | Snap Ring A=2.00          |          |                            |
|               | 1056 310 058  | Snap Ring A=2.20          |          |                            |
|               | 1056 310 059  | Snap Ring A=2.40          |          |                            |
|               | 1056 310 060  | Snap Ring A=2.60          |          |                            |
|               | 1056 310 097  | Snap Ring A=2.80          |          |                            |

### 5HP19 Selective Shim

| Pos #         | Select. Parts | Description                    | Qty      | Where used (1060 000 ____) |
|---------------|---------------|--------------------------------|----------|----------------------------|
| <b>10.400</b> |               | <b>Intermediate Plate Shim</b> | <b>1</b> | <b>All</b>                 |
|               | 0730 105 263  | Shim A=1.00                    |          |                            |
|               | 0730 105 264  | Shim A=1.20                    |          |                            |
|               | 0730 105 265  | Shim A=1.40                    |          |                            |
|               | 0730 105 266  | Shim A=1.60                    |          |                            |
|               | 0730 105 267  | Shim A=1.80                    |          |                            |
|               | 0730 105 268  | Shim A=2.00                    |          |                            |
|               | 0730 105 269  | Shim A=2.20                    |          |                            |
|               | 0730 105 270  | Shim A=2.40                    |          |                            |
|               | 0730 105 271  | Shim A=2.60                    |          |                            |
|               | 0730 105 272  | Shim A=2.80                    |          |                            |
|               | 0730 105 273  | Shim A=3.00                    |          |                            |
|               | 0730 105 274  | Shim A=3.20                    |          |                            |
|               | 0730 105 275  | Shim A=3.40                    |          |                            |
|               | 0730 105 276  | Shim A=3.60                    |          |                            |

### 5HP19 Selective Shim

| Pos #         | Select. Parts | Description        | Qty      | Where used (1060 000 ____) |
|---------------|---------------|--------------------|----------|----------------------------|
| <b>14.050</b> |               | <b>Output Shim</b> | <b>1</b> | <b>All</b>                 |
|               | 0730 107 753  | Shim A=0.80        | 1        |                            |
|               | 0730 107 754  | Shim A=1.00        | 1        |                            |
|               | 0730 107 755  | Shim A=1.20        | 1        |                            |
|               | 0730 107 756  | Shim A=1.40        | 1        |                            |
|               | 0730 107 757  | Shim A=1.60        | 1        |                            |
|               | 0730 107 758  | Shim A=1.80        | 1        |                            |
|               | 0730 107 759  | Shim A=2.00        | 1        |                            |
|               | 0730 107 760  | Shim A=2.20        | 1        |                            |
|               | 0730 107 761  | Shim A=2.40        | 1        |                            |
|               | 0730 107 762  | Shim A=2.60        | 1        |                            |
|               | 0730 107 763  | Shim A=2.80        | 1        |                            |



## 5HP19 Selective Shims & Snap Rings (continued)

### 5HP19 Selective Snap Ring

| Pos #             | Select. Parts | Description               | Qty      | Where used (1060 000 ____) |
|-------------------|---------------|---------------------------|----------|----------------------------|
| <b>70.010/230</b> |               | <b>Clutch A Snap Ring</b> | <b>1</b> | <b>All</b>                 |
|                   | 0730 513 293  | Snap Ring A=1.00          |          |                            |
|                   | 0730 513 294  | Snap Ring A=1.20          |          |                            |
|                   | 0730 513 295  | Snap Ring A=1.40          |          |                            |
|                   | 0730 513 296  | Snap Ring A=1.60          |          |                            |
|                   | 0730 513 297  | Snap Ring A=1.80          |          |                            |
|                   | 0730 513 298  | Snap Ring A=2.00          |          |                            |
|                   | 0730 513 299  | Snap Ring A=2.20          |          |                            |
|                   | 0730 513 300  | Snap Ring A=2.40          |          |                            |
|                   | 0730 513 301  | Snap Ring A=2.60          |          |                            |
|                   | 0730 513 302  | Snap Ring A=2.80          |          |                            |

### 5HP19 Selective Snap Ring

| Pos #         | Select. Parts | Description               | Qty      | Where used (1060 000 ____) |
|---------------|---------------|---------------------------|----------|----------------------------|
| <b>71.130</b> |               | <b>Clutch E Snap Ring</b> | <b>1</b> | <b>All</b>                 |
|               | 0730 513 613  | Snap Ring A=1.00          |          |                            |
|               | 0730 513 614  | Snap Ring A=1.20          |          |                            |
|               | 0730 513 615  | Snap Ring A=1.40          |          |                            |
|               | 0730 513 567  | Snap Ring A=1.50          |          |                            |
|               | 0730 513 616  | Snap Ring A=1.60          |          |                            |
|               | 0730 513 617  | Snap Ring A=1.80          |          |                            |
|               | 0730 513 618  | Snap Ring A=2.00          |          |                            |
|               | 0730 513 619  | Snap Ring A=2.20          |          |                            |
|               | 0730 513 620  | Snap Ring A=2.40          |          |                            |
|               | 0730 513 621  | Snap Ring A=2.60          |          |                            |
|               | 0730 513 622  | Snap Ring A=2.80          |          |                            |

### 5HP19 Selective Snap Ring

| Pos #         | Select. Parts | Description               | Qty      | Where used (1060 000 ____) |
|---------------|---------------|---------------------------|----------|----------------------------|
| <b>72.100</b> |               | <b>Clutch B Snap Ring</b> | <b>1</b> | <b>All</b>                 |
|               | 1056 371 069  | Snap Ring A=1.00          |          |                            |
|               | 1056 372 070  | Snap Ring A=1.20          |          |                            |
|               | 1056 372 071  | Snap Ring A=1.40          |          |                            |
|               | 1056 372 072  | Snap Ring A=1.60          |          |                            |
|               | 1056 372 073  | Snap Ring A=1.80          |          |                            |
|               | 1056 372 074  | Snap Ring A=2.00          |          |                            |



## 5HP19 Selective Shims & Snap Rings (continued)

### 5HP19 Selective Snap Ring

| Pos #             | Select. Parts | Description               | Qty      | Where used (1060 000 ____) |
|-------------------|---------------|---------------------------|----------|----------------------------|
| <b>73.010/200</b> |               | <b>Clutch D Snap Ring</b> | <b>1</b> | <b>All</b>                 |
|                   | 0730 513 299  | Snap Ring A=2.20          |          |                            |
|                   | 0730 513 300  | Snap Ring A=2.40          |          |                            |
|                   | 0730 513 301  | Snap Ring A=2.60          |          |                            |
|                   | 0730 513 302  | Snap Ring A=2.80          |          |                            |
|                   | 0730 513 362  | Snap Ring A=3.00          |          |                            |
|                   | 0730 513 568  | Snap Ring A=3.20          |          |                            |
|                   | 0730 513 569  | Snap Ring A=3.40          |          |                            |
|                   | 0730 513 570  | Snap Ring A=3.60          |          |                            |
|                   | 0730 513 571  | Snap Ring A=3.80          |          |                            |
|                   | 0730 513 364  | Snap Ring A=4.00          |          |                            |
|                   | 0730 513 667  | Snap Ring A=4.20          |          |                            |

### 5HP19 Selective Snap Ring

| Pos #         | Select. Parts | Description               | Qty      | Where used (1060 000 ____) |
|---------------|---------------|---------------------------|----------|----------------------------|
| <b>73.080</b> |               | <b>Clutch G Snap Ring</b> | <b>1</b> | <b>All</b>                 |
|               | 0730 513 212  | Snap Ring A=1.80          |          |                            |
|               | 0730 513 220  | Snap Ring A=2.00          |          |                            |
|               | 0730 513 221  | Snap Ring A=2.20          |          |                            |
|               | 0730 513 222  | Snap Ring A=2.40          |          |                            |
|               | 0730 513 223  | Snap Ring A=2.60          |          |                            |
|               | 0730 513 224  | Snap Ring A=2.80          |          |                            |
|               | 0730 513 439  | Snap Ring A=3.00          |          |                            |
|               | 0730 513 440  | Snap Ring A=3.20          |          |                            |
|               | 0730 513 441  | Snap Ring A=3.40          |          |                            |

### 5HP19 Selective Snap Ring

| Pos #             | Select. Parts | Description               | Qty      | Where used (1060 000 ____) |
|-------------------|---------------|---------------------------|----------|----------------------------|
| <b>77.010/210</b> |               | <b>Clutch F Snap Ring</b> | <b>1</b> | <b>All</b>                 |
|                   | 0730 513 210  | Snap Ring A=1.20          |          |                            |
|                   | 0730 513 211  | Snap Ring A=1.40          |          |                            |
|                   | 0730 513 219  | Snap Ring A=1.60          |          |                            |
|                   | 0730 513 212  | Snap Ring A=1.80          |          |                            |
|                   | 0730 513 220  | Snap Ring A=2.00          |          |                            |
|                   | 0730 513 221  | Snap Ring A=2.20          |          |                            |
|                   | 0730 513 222  | Snap Ring A=2.40          |          |                            |
|                   | 0730 513 223  | Snap Ring A=2.60          |          |                            |
|                   | 0730 513 224  | Snap Ring A=2.80          |          |                            |



## 5HP19 Kit Content

### 5HP19 Fiber Clutch Kit – 1060 298 023

| Pos #      | ZF Part #    | Description      | Qty | Where used<br>(1060 000 ____) | Notes                    |
|------------|--------------|------------------|-----|-------------------------------|--------------------------|
| 10.300     | 1019 273 019 | Friction Plate C | 4   | All                           | 005/008/009 use 3 pieces |
| 70.010/210 | 1060 271 005 | Friction Plate A | 5   | All                           | 008 uses 4 pieces        |
| 71.110     | 1050 230 032 | Friction Plate E | 5   | All                           | 008 uses 4 pieces        |
| 72.080     | 1060 272 003 | Friction Plate B | 2   | All                           |                          |
| 73.010/180 | 1050 217 002 | Friction Plate D | 6   | All                           | 008 uses 5 pieces        |
| 73.060     | 1060 273 005 | Friction Plate G | 4   | All                           | 008 uses 3 pieces        |
| 77.010/200 | 1060 273 005 | Friction Plate F | 5   | All                           | 008 uses 4 pieces        |

### 5HP19 Steel Kit – 1060 298 027

| Pos #      | ZF Part #    | Description   | Qty | Where used<br>(1060 000 ____) | Notes             |
|------------|--------------|---------------|-----|-------------------------------|-------------------|
| 10.290     | 1060 310 027 | Steel Plate C | 3   | 005/008/009                   |                   |
|            | 1060 310 053 | Steel Plate C | 4   | 010                           |                   |
| 10.310     | 1060 310 005 | End Plate C   | 2   | All                           |                   |
| 70.010/200 | 1060 370 002 | Steel Plate A | 5   | All                           | 008 uses 4 pieces |
| 70.010/220 | 1060 370 003 | End Plate A   | 1   | All                           |                   |
| 71.100     | 1060 371 002 | Steel Plate E | 5   | All                           | 008 uses 4 pieces |
| 71.120     | 1060 371 003 | End Plate E   | 1   | All                           |                   |
| 72.070     | 1060 372 002 | Steel Plate B | 2   | All                           |                   |
| 72.090     | 1060 372 003 | End Plate B   | 1   | All                           |                   |
| 73.010/170 | 1060 370 002 | Steel Plate D | 6   | All                           | 008 uses 5 pieces |
| 73.010/190 | 1060 370 003 | End Plate D   | 1   | All                           |                   |
| 73.050     | 1060 377 003 | Steel Plate G | 4   | All                           | 008 uses 3 pieces |
| 73.070     | 1060 377 004 | End Plate G   | 1   | All                           |                   |
| 77.010/190 | 1060 377 002 | Steel Plate F | 6   | All                           | 008 uses 5 pieces |

### 5HP19 Overhaul Kit – 1060 298 030

| Pos #      | ZF Part #    | Description        | Qty | Where used<br>(1060 000 ____) | Notes                    |
|------------|--------------|--------------------|-----|-------------------------------|--------------------------|
| 01.010/200 | 0734 319 623 | Shaft Seal         | 1   | All                           |                          |
| 01.010/340 | 0636 308 025 | Screw Plug M18x1.5 | 1   | All                           |                          |
| 01.090     | 0636 308 024 | Screw Plug M12x1.5 | 1   | All                           |                          |
| 01.650     | 0501 318 572 | Screw Plug M10x1   | 1   | All                           |                          |
| 03.010/130 | 0636 308 018 | Screw Plug M16x1.5 | 1   | All                           | Oil sump with M16 thread |
|            | 0736 302 062 | Screw Plug M14x1.5 | 1   | All                           | Oil sump with M14 thread |
| 03.020     | 1060 390 002 | Gasket             | 1   | All                           |                          |
| 10.010/160 | 0734 310 316 | Shaft Seal         | 1   | All                           |                          |
| 10.030     | 0734 313 178 | O-Ring             | 1   | All                           |                          |
| 10.190     | 0734 313 006 | O-Ring             | 1   | All                           |                          |
| 10.200     | 0734 313 117 | O-Ring             | 1   | All                           |                          |
| 10.360     | 0734 313 064 | O-Ring             | 1   | All                           |                          |
| 10.370     | 0750 113 015 | Piston Ring        | 2   | All                           |                          |
| 10.380     | 0734 401 213 | Piston Ring        | 1   | All                           |                          |
| 10.440     | 0750 112 076 | Usit Ring          | 9   | All                           |                          |

**Note:** Above listed parts are not sold individually.



## 5HP19 Kit Content (continued)

### 5HP19 Overhaul Kit – 1060 298 030 (continued)

| Pos #      | ZF Part #    | Description  | Qty | Where used<br>(1060 000 ____) | Notes            |
|------------|--------------|--------------|-----|-------------------------------|------------------|
| 10.540     | 0734 313 161 | O-Ring       | 4   | All                           |                  |
| 14.010/140 | 0734 319 607 | Shaft Seal   | 1   | All                           |                  |
| 14.100     | 0734 313 083 | O-Ring       | 1   | All                           |                  |
| 27.188     | 0501 314 645 | Rubber Part  | 1   | All                           | Early valve body |
|            | 1068 227 039 | Piston       | 1   | All                           | Late valve body  |
| 27.198     | 0501 314 645 | Rubber Part  | 1   | All                           | Early valve body |
|            | 1068 227 039 | Piston       | 1   | All                           | Late valve body  |
| 27.208     | 0501 314 645 | Rubber Part  | 1   | All                           | Early valve body |
|            | 1068 227 039 | Piston       | 1   | All                           | Late valve body  |
| 27.220     | 1060 327 075 | Gasket       | 1   | All                           |                  |
| 27.340/116 | 0501 209 253 | O-Ring       | 2   | All                           |                  |
| 27.420/020 | 0501 314 578 | Sealing Ring | 1   | All                           |                  |
| 51.302     | 0734 313 190 | O-Ring       | 1   | All                           |                  |
| 51.498     | 0734 313 190 | O-Ring       | 1   | All                           |                  |
| 51.680/010 | 0734 313 219 | O-Ring       | 3   | All                           |                  |
| 54.120/010 | 0634 316 523 | O-Ring       | 1   | All                           |                  |
| 70.010/120 | 0734 313 014 | O-Ring       | 1   | All                           |                  |
| 70.010/130 | 0734 313 029 | O-Ring       | 1   | All                           |                  |
| 70.020     | 0734 313 163 | O-Ring       | 1   | All                           |                  |
| 71.020     | 0734 317 256 | Piston Ring  | 1   | All                           |                  |
| 71.030     | 0734 317 190 | Sealing Ring | 1   | All                           |                  |
| 71.060     | 0734 313 022 | O-Ring       | 1   | All                           |                  |
| 71.070     | 0734 313 027 | O-Ring       | 1   | All                           |                  |
| 71.086     | 0734 313 008 | O-Ring       | 1   | All                           |                  |
| 71.150     | 0734 313 160 | O-Ring       | 1   | All                           |                  |
| 71.160     | 0734 313 211 | O-Ring       | 1   | All                           |                  |
| 72.050     | 0734 313 010 | O-Ring       | 1   | All                           |                  |
| 72.060     | 0734 313 007 | O-Ring       | 1   | All                           |                  |
| 73.010/130 | 0734 313 008 | O-Ring       | 1   | All                           |                  |
| 73.010/140 | 0734 313 006 | O-Ring       | 1   | All                           |                  |
| 73.022     | 0734 313 021 | O-Ring       | 1   | All                           |                  |
| 73.024     | 0734 313 010 | O-Ring       | 1   | All                           |                  |
| 73.100/140 | 0734 313 086 | O-Ring       | 2   | All                           |                  |
| 73.140     | 0734 317 205 | Piston Ring  | 2   | All                           |                  |
| 77.010/130 | 0734 313 008 | O-Ring       | 1   | All                           |                  |
| 77.010/140 | 0734 313 010 | O-Ring       | 1   | All                           |                  |

**Note:** Above listed parts are not sold individually.



## 5HP19 Kit Content (continued)

### 5HP19 Solenoid Kit – 1060 298 033

| Pos #      | ZF Part #    | Description        | Qty | Where used<br>(1060 000 ____) | Notes |
|------------|--------------|--------------------|-----|-------------------------------|-------|
| 51.660     | 0501 316 463 | Solenoid Valve     | 3   | All                           |       |
| 51.680     | 0501 210 019 | Pressure Regulator | 3   | All                           |       |
| 51.680/010 | 0734 313 219 | O-Ring             | 3   | All                           |       |
| 54.120     | 0501 210 725 | Pressure Regulator | 1   | All                           |       |
| 54.120/010 | 0634 316 523 | O-Ring             | 1   | All                           |       |

### 5HP19 Filter Kit – 5HP19FK

| Pos #      | ZF Part #    | Description        | Qty | Where used<br>(1060 000 ____) | Notes                    |
|------------|--------------|--------------------|-----|-------------------------------|--------------------------|
| 03.010/130 | 0636 308 018 | Screw Plug M16x1.5 | 1   | All                           | Oil sump with M16 thread |
|            | 0736 302 062 | Screw Plug M14x1.5 | 1   | All                           | Oil sump with M14 thread |
| 03.020     | 1060 390 002 | Gasket             | 1   | All                           |                          |
| 27.420     | 0501 210 388 | Filter             | 1   | All                           |                          |
| 27.420/020 | 0501 314 578 | Sealing Ring       | 1   | All                           |                          |

**Note:** Above listed parts are not sold individually.



## Quotation / Order Form

**FAX FORM TO YOUR PREFERRED ZF PASSENGER CAR TRANSMISSION DISTRIBUTOR**

Purchase Order Date: \_\_\_\_\_

Purchase Order #: \_\_\_\_\_

### Customer Information

Company Name: \_\_\_\_\_

Street: \_\_\_\_\_

Phone #: \_\_\_\_\_

Email: \_\_\_\_\_

Contact: \_\_\_\_\_

City, State & Zip: \_\_\_\_\_

Fax #: \_\_\_\_\_

Customer #: \_\_\_\_\_

### Shipping Information

Ship To: \_\_\_\_\_

Street: \_\_\_\_\_

Request Date: \_\_\_\_\_

Attention: \_\_\_\_\_

City, State & Zip: \_\_\_\_\_

Ship via: \_\_\_\_\_

### Vehicle Information

Make: \_\_\_\_\_

Model Year: \_\_\_\_\_

Model: \_\_\_\_\_

Transmission Spec: \_\_\_\_\_

### Order Information

| Line | Qty | Pos. # | ZF Part # | Description / Cust. Ref. No. |
|------|-----|--------|-----------|------------------------------|
| 1    |     |        |           |                              |
| 2    |     |        |           |                              |
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| 4    |     |        |           |                              |
| 5    |     |        |           |                              |
| 6    |     |        |           |                              |
| 7    |     |        |           |                              |
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| 10   |     |        |           |                              |
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| 13   |     |        |           |                              |
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| 19   |     |        |           |                              |
| 20   |     |        |           |                              |

Signature: \_\_\_\_\_

Date: \_\_\_\_\_



## Notes



## Warranty Information

Warranty coverage for ZF passenger car transmission spare parts and kits covers the first 12 months after installation in the vehicle, or 24 months after purchase from ZF Industries, Inc.

Warranty of the product is limited to replacement or repair, if found to be defective in ZF material or workmanship, and specifically does not cover removal, reinstallation, or any costs incidental to the repair of the vehicle, or any kind of consequential damages.

All warranty and/or non-warranty returns must be approved.

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