



Technical Service Information

MISTUBISHI/HYUNDAI

F4A-40/50 SERIES SHUDDER OR SLIP IN REVERSE

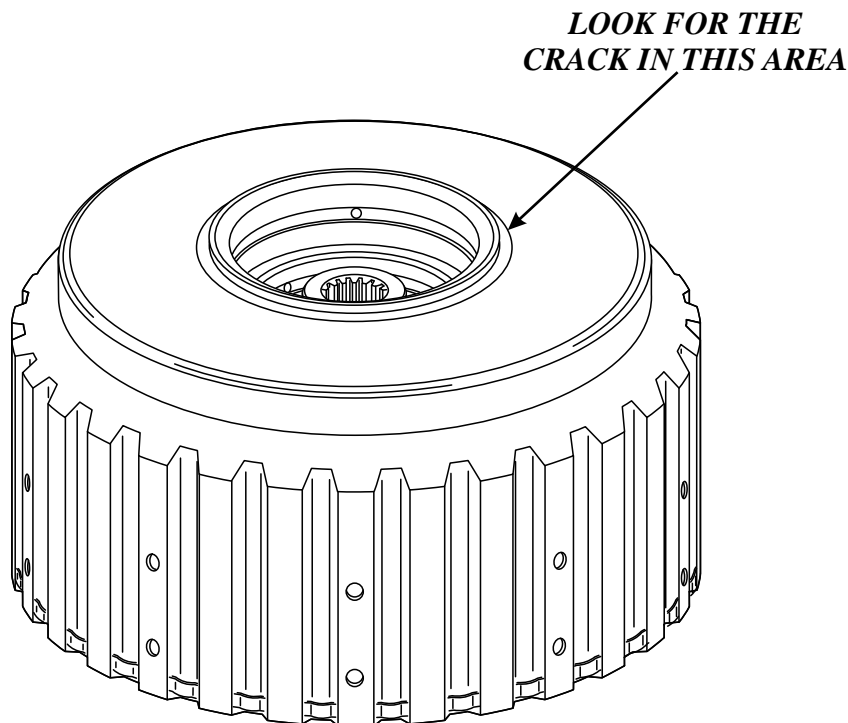
COMPLAINT: Before or after overhaul, Mitsubishi and or Hyundai vehicles equipped with the F4A-40 or F4A- 50 series transaxles, may exhibit a shudder or slip while backing up in Reverse.

CAUSE: The cause may be, that the Overdrive / Reverse Clutch Drum is cracked around the weld on the back of the drum as shown in Figure 1. **CAUTION:** This crack is easy to miss!

CORRECTION: Replace the Overdrive / Reverse Clutch Drum and renew the piston seals as shown in Figure 2.

*Special thanks to
Billy Johnson*

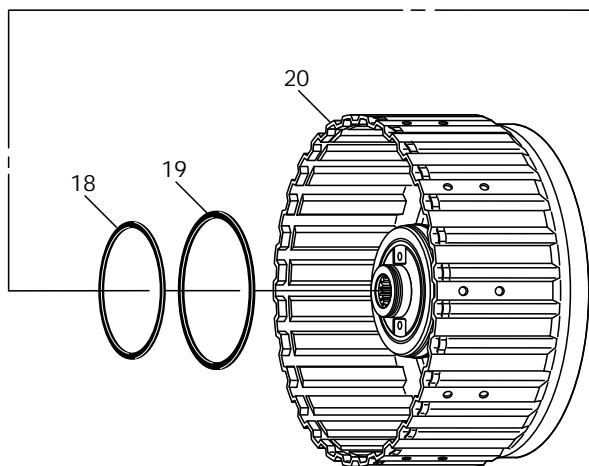
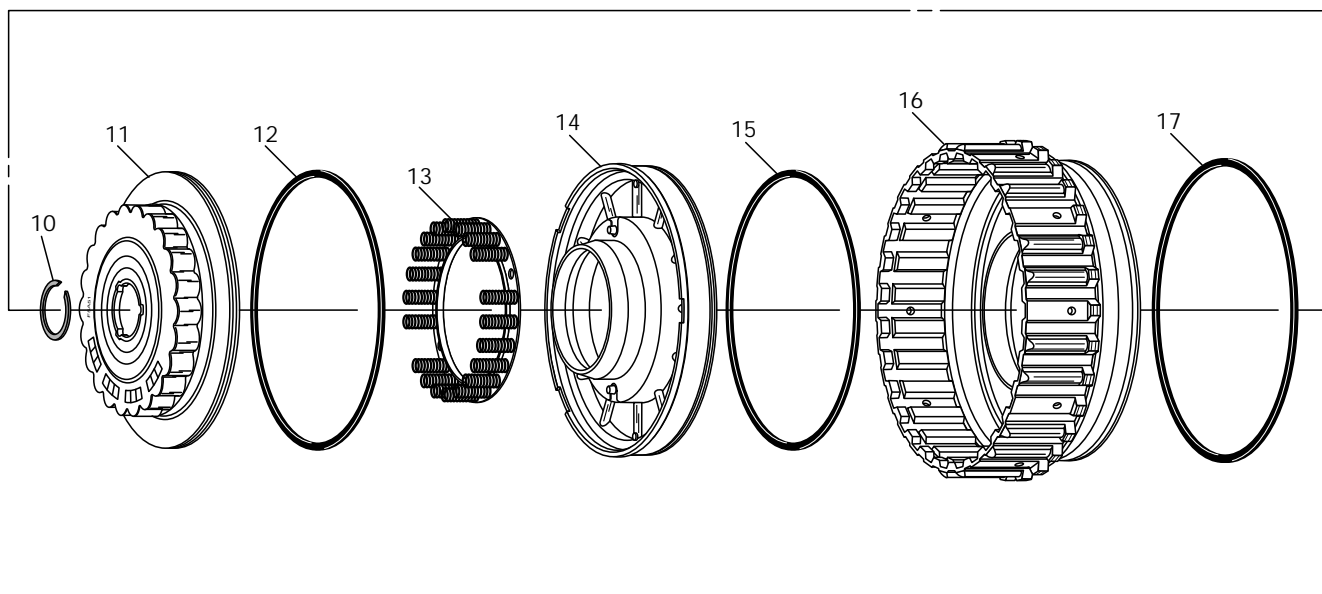
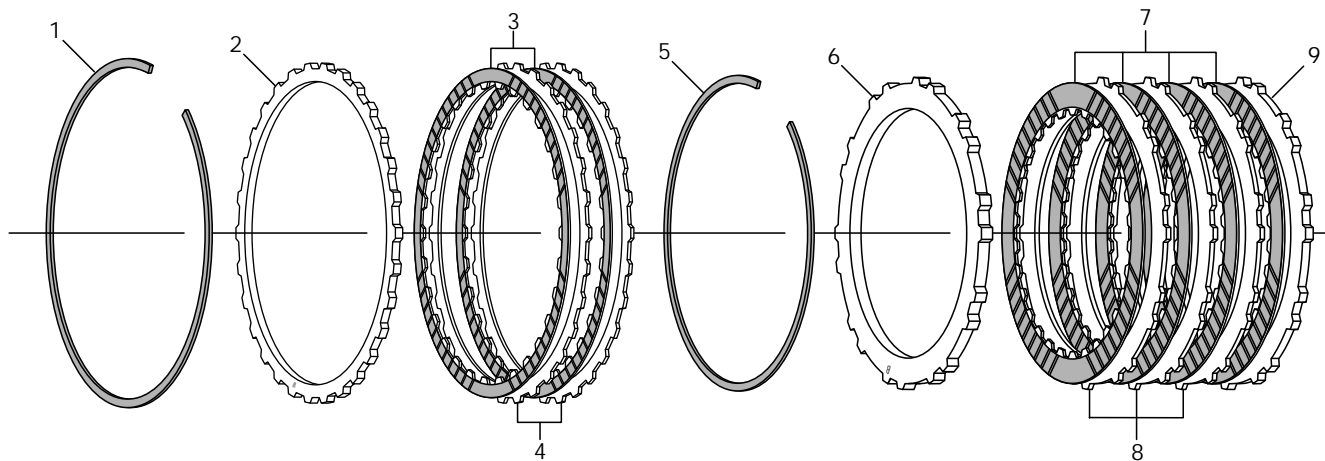
OVERDRIVE / REVERSE CLUTCH DRUM



Copyright © 2008 ATSG

Figure 1

REVERSE/OVERDRIVE CLUTCH HOUSING EXPLODED VIEW



- 1 REVERSE CLUTCH BACKING PLATE SNAP RING (*SELECTIVE*).
- 2 REVERSE CLUTCH BACKING PLATE (.160" THICK).
- 3 REVERSE CLUTCH FRICTION PLATES.
- 4 REVERSE CLUTCH STEEL PLATES (.073" THICK).
- 5 OVERDRIVE CLUTCH BACKING PLATE SNAP RING (*SELECTIVE*).
- 6 OVERDRIVE CLUTCH BACKING PLATE (.240" THICK).
- 7 OVERDRIVE CLUTCH FRICTION PLATES.
- 8 OVERDRIVE CLUTCH STEEL PLATES (.099" THICK).
- 9 OVERDRIVE CLUTCH APPLY PLATE (.160" THICK).
- 10 OVERDRIVE BALANCE PISTON RETAINING SNAP RING.
- 11 OVERDRIVE CLUTCH BALANCE PISTON.
- 12 OVERDRIVE CLUTCH BALANCE PISTON "D" RING SEAL.
- 13 OVERDRIVE CLUTCH APPLY PISTON RETURN SPRING.
- 14 OVERDRIVE CLUTCH APPLY PISTON.
- 15 OVERDRIVE CLUTCH APPLY PISTON "D" RING SEAL.
- 16 REVERSE CLUTCH APPLY PISTON.
- 17 REVERSE CLUTCH APPLY PISTON "D" RING SEAL.
- 18 OVERDRIVE CLUTCH PISTON INNER "D" RING SEAL.
- 19 REVERSE CLUTCH APPLY PISTON INNER "D" RING SEAL.
- 20 REVERSE CLUTCH RETAINER ASSEMBLY.

Copyright © 2008 ATSG

Figure 2