

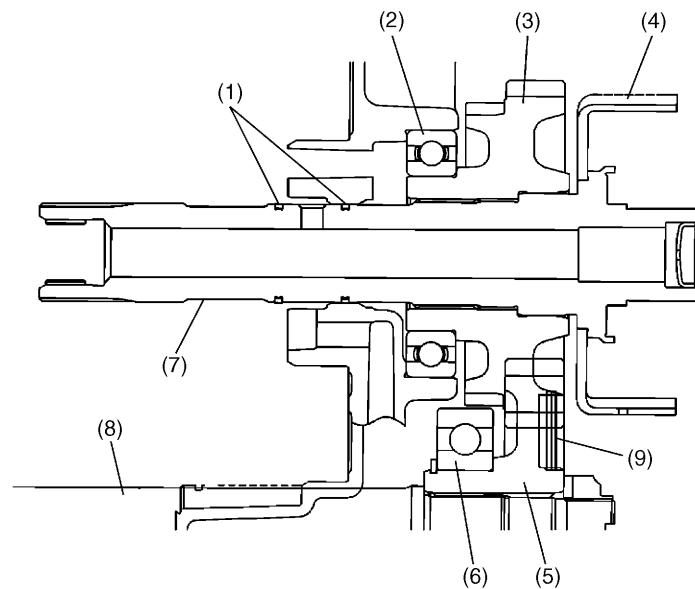
REDUCTION GEARS

Automatic Transmission

7. Reduction Gears

A: MPT MODELS

Engine torque is transmitted from the rear planetary carrier to the reduction drive shaft and the reduction drive gear. The torque is then transmitted to the front final gears through the reduction driven gear and drive pinion. The torque is also transmitted to the rear wheels from the transfer clutch hub (welded to the side of the reduction drive gear) through the transfer clutch and the following path: rear drive shaft → propeller shaft → rear differential.



B3H2073A

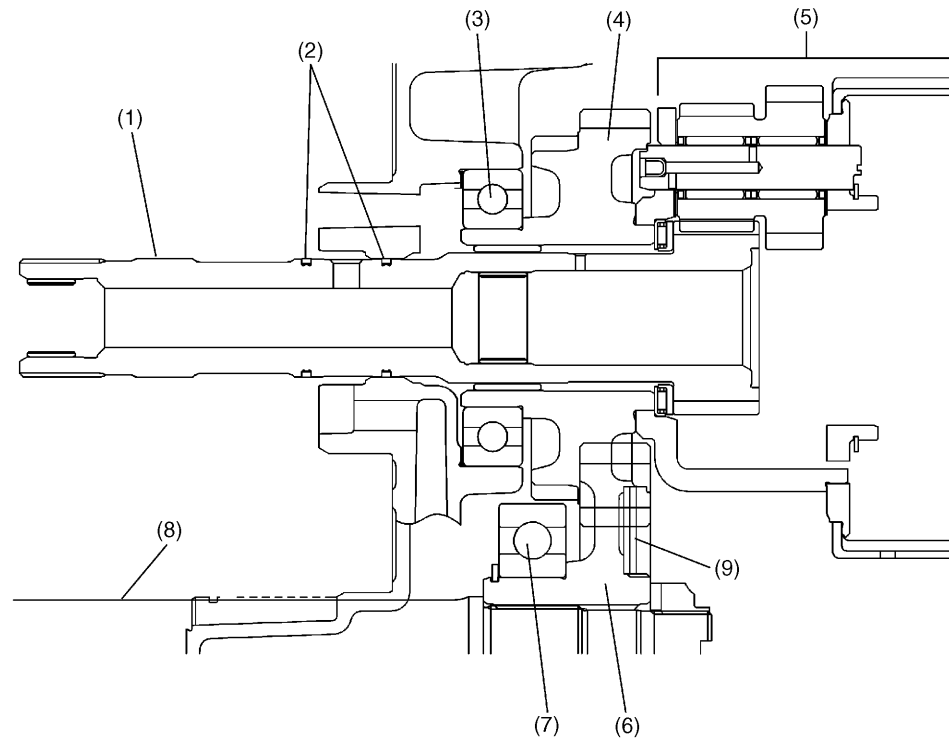
- | | | |
|--------------------------|---------------------------|---------------------------|
| (1) Seal ring | (4) Transfer clutch hub | (7) Reduction drive shaft |
| (2) Ball bearing | (5) Reduction driven gear | (8) Drive pinion shaft |
| (3) Reduction drive gear | (6) Ball bearing | (9) Snap ring |

REDUCTION GEARS

Automatic Transmission

B: VTD MODELS

Engine torque is transmitted from the rear planetary carrier to the intermediate shaft and the center differential. The torque to the center differential is transmitted from the front sun gear which forms an integral part of the intermediate shaft. From the center differential, part of the torque is transmitted toward the front wheels by way of the center differential carrier, which forms an integral part of the reduction drive gear. The torque toward the rear wheels is transmitted by way of the center differential's rear sun gear which forms an integral part of the rear drive shaft. The front wheel drive torque is then transmitted to the final gear through the reduction driven gear and drive pinion shaft. The rear wheel drive torque is transmitted as follows: rear drive shaft → propeller shaft → rear differential.



B3H2074A

- | | |
|----------------------------------|---------------------------|
| (1) Intermediate shaft | (6) Reduction driven gear |
| (2) Seal ring | (7) Ball bearing |
| (3) Ball bearing | (8) Drive pinion shaft |
| (4) Reduction drive gear | (9) Snap ring |
| (5) Center differential assembly | |