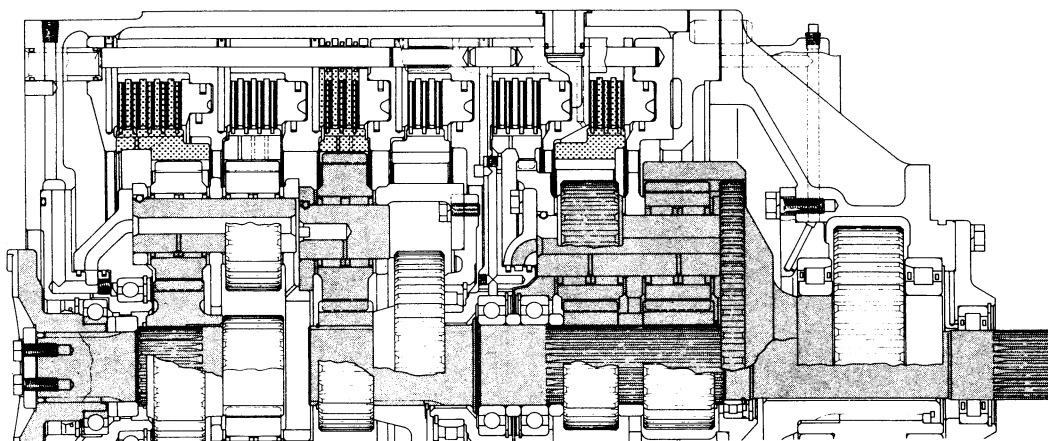
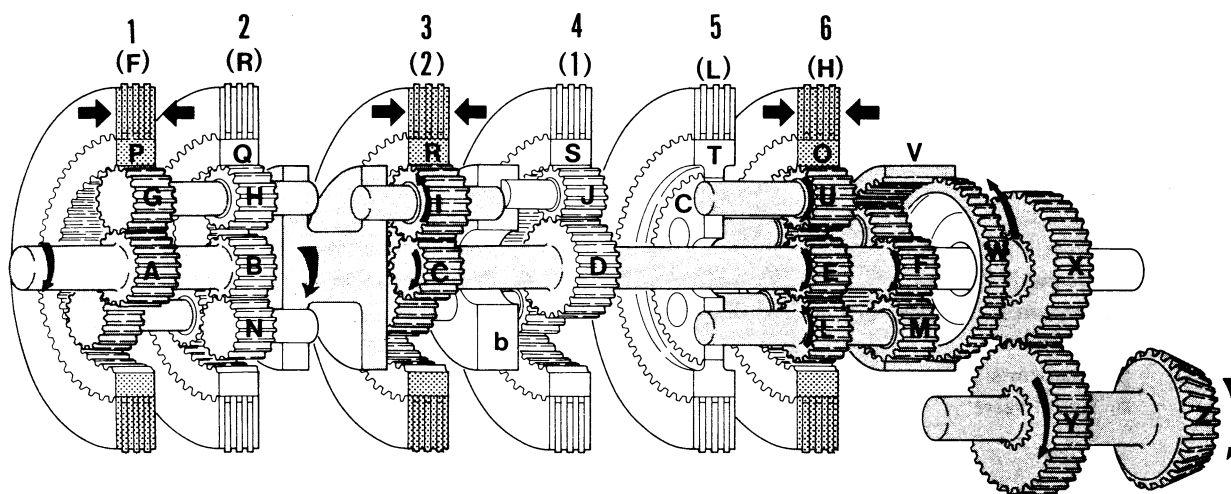


FORWARD 4th SPEED



195F039

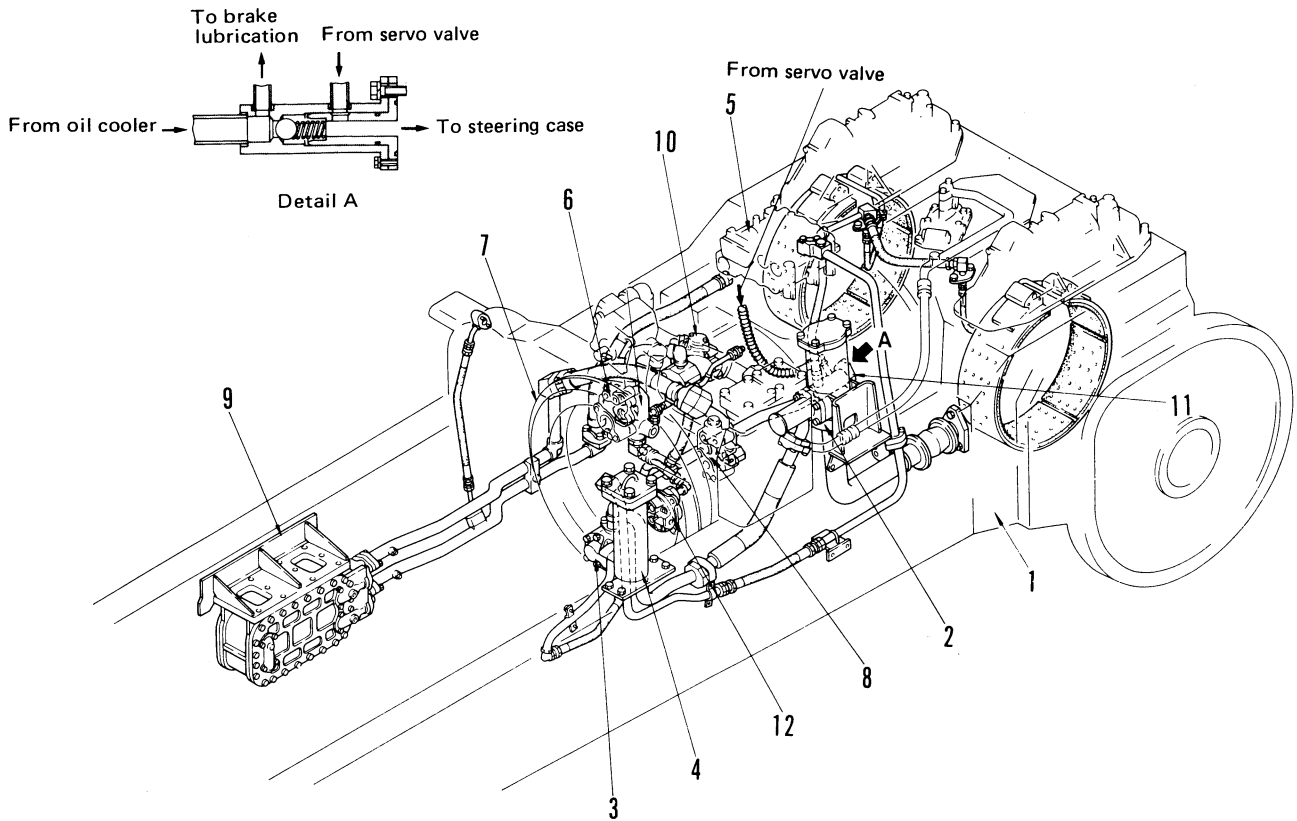


Apply hydraulic pressure to Nos. 1, 3 and 6 clutches so as to lock Nos. 1, 4 and 6 ring gears.

195F040

- (1) Apply hydraulic pressure to Nos. 1 and 3 clutches. Then, components move in the same manner as described in (1) and (2) of the paragraph, "Forward 2nd Speed".
- (2) Apply hydraulic pressure to No. 6 clutch, then torque is transmitted to bevel pinion in the same manner as described in (3) and (4) of paragraph. "Forward 3rd Speed".

TORQFLOW HYDRAULIC PIPING



- | | | |
|-------------------------------------|---|----------|
| 1. Steering case | 7. Torque converter | 195F041A |
| 2. Magnetic strainer | 8. Regulator valve | |
| 3. Transmission pump (Type FAR 080) | 9. Oil cooler | |
| 4. Oil filter | 10. Transmission lubrication relief valve | |
| 5. Transmission control valve | 11. Brake lubrication relief valve | |
| 6. Relief valve | 12. Scavenging pump | |

Oil in the steering case (1) is sucked up through the magnetic strainer (2) by means of a gear type transmission pump (3), and then delivered to the transmission control valve (5) through the oil filter (4).

The transmission control valve is divided into a pressure control valve group and a speed change valve group. The oil, relieved at 20 kg/cm² through the pressure control valve (modulating relief valve), flows to the torque converter relief valve (6).

The torque converter relief valve is set at 8.7 kg/cm² to control the pressure of the oil entering the torque converter (7). The oil relieved through the relief valve enters the transmission lubrication circuit. The oil which enters the torque converter continues, flowing into the torque converter regulator valve (8).

The torque converter regulator valve is set at 5.5 kg/cm² to maintain the pressure inside the torque converter at this value.

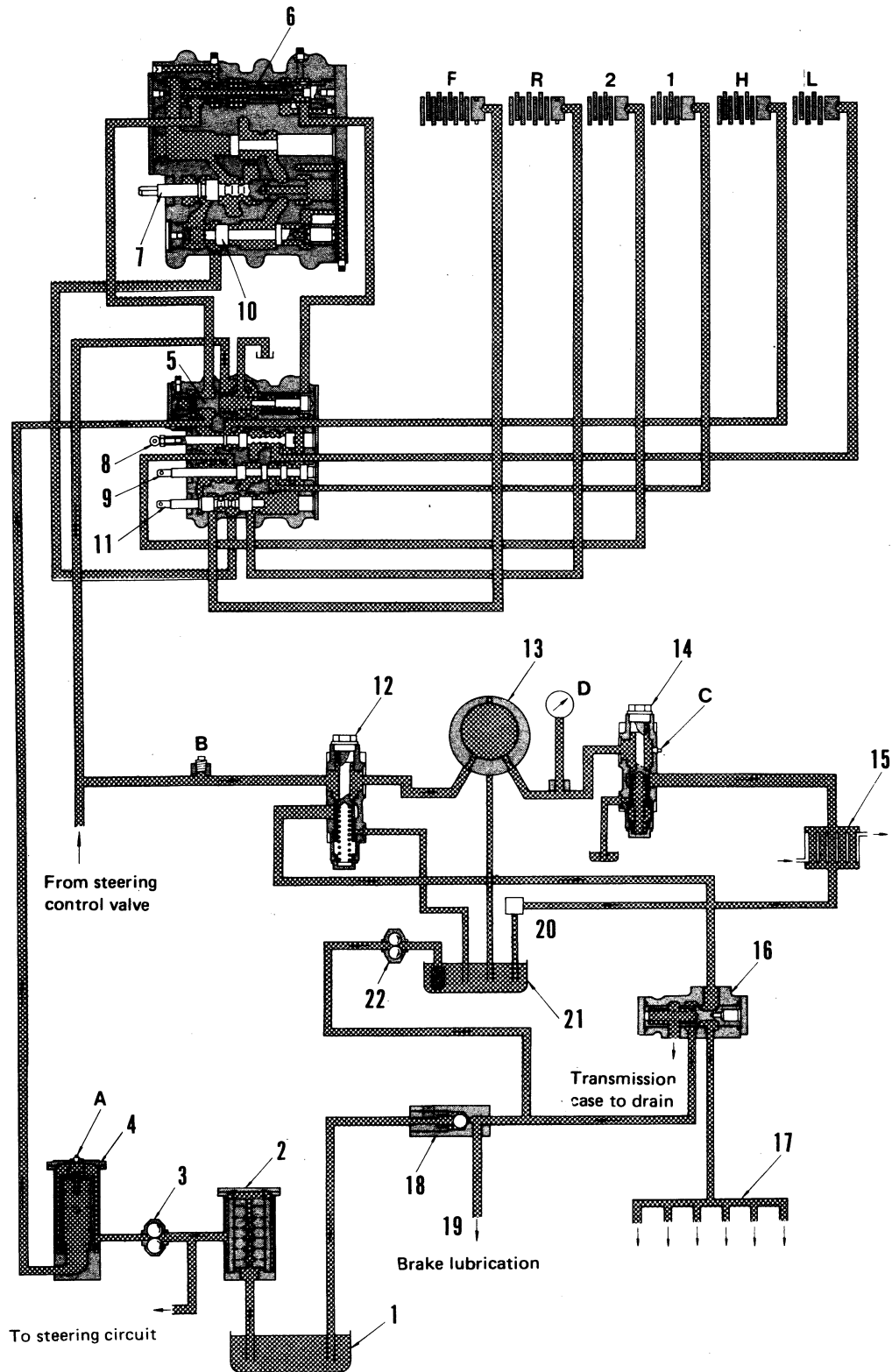
The oil pressure which is relieved at 5.5 kg/cm² (the pressure setting for the regulator valve) is cooled through an oil cooler (9) before reaching the transmission lubrication valve.

The transmission lubrication relief valve (10) is set at 1.24 kg/cm², and supplies oil to sliding part (11) of the transmission. All the oil relieved through this valve flows back to the steering case.

The oil used for lubricating the torque converter (7) as well as the oil leaking out from the mating faces of the torque converter is recirculated from the converter to the steering case by the scavenging pump (12).

TORQFLOW HYDRAULIC SYSTEM

Engine Running, Transmission in Neutral



- | | |
|--------------------------------|-----------------------------------|
| 1. Steering case | 7. P.T.O. valve |
| 2. Oil strainer | 8. Speed valve (High-Low) |
| 3. Transmission pump (FAR 080) | 9. Speed valve (N-1st-2nd) |
| 4. Oil filter | 10. Safety valve |
| 5. Modulating valve | 11. Directional valve |
| 6. Quick return valve | 12. Torque converter relief valve |

195F05002