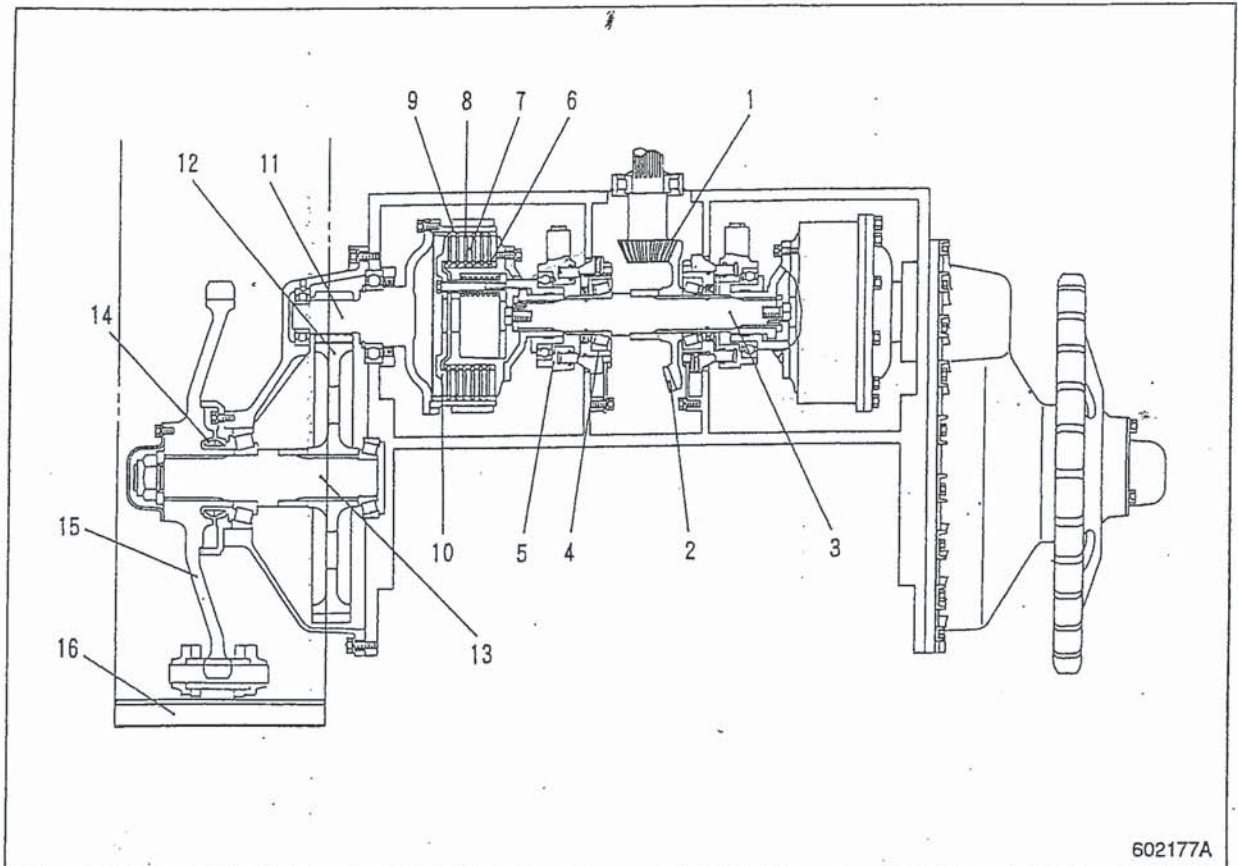


STEERING CLUTCHES, BRAKES AND FINAL DRIVES



602177A

- | | | |
|----------------------------|-----------------------|------------------|
| 1 Bevel pinion | 7 Disc plate | 13 Shaft |
| 2 Bevel gear | 8 Friction plate | 14 Floating seal |
| 3 Drive shaft | 9 Outer drum | 15 Sprocket |
| 4 Bearing cage | 10 Pressure plate | 16 Track |
| 5 Steering clutch cylinder | 11 Final drive pinion | |
| 6 Inner drum | 12 Final driven gear | |

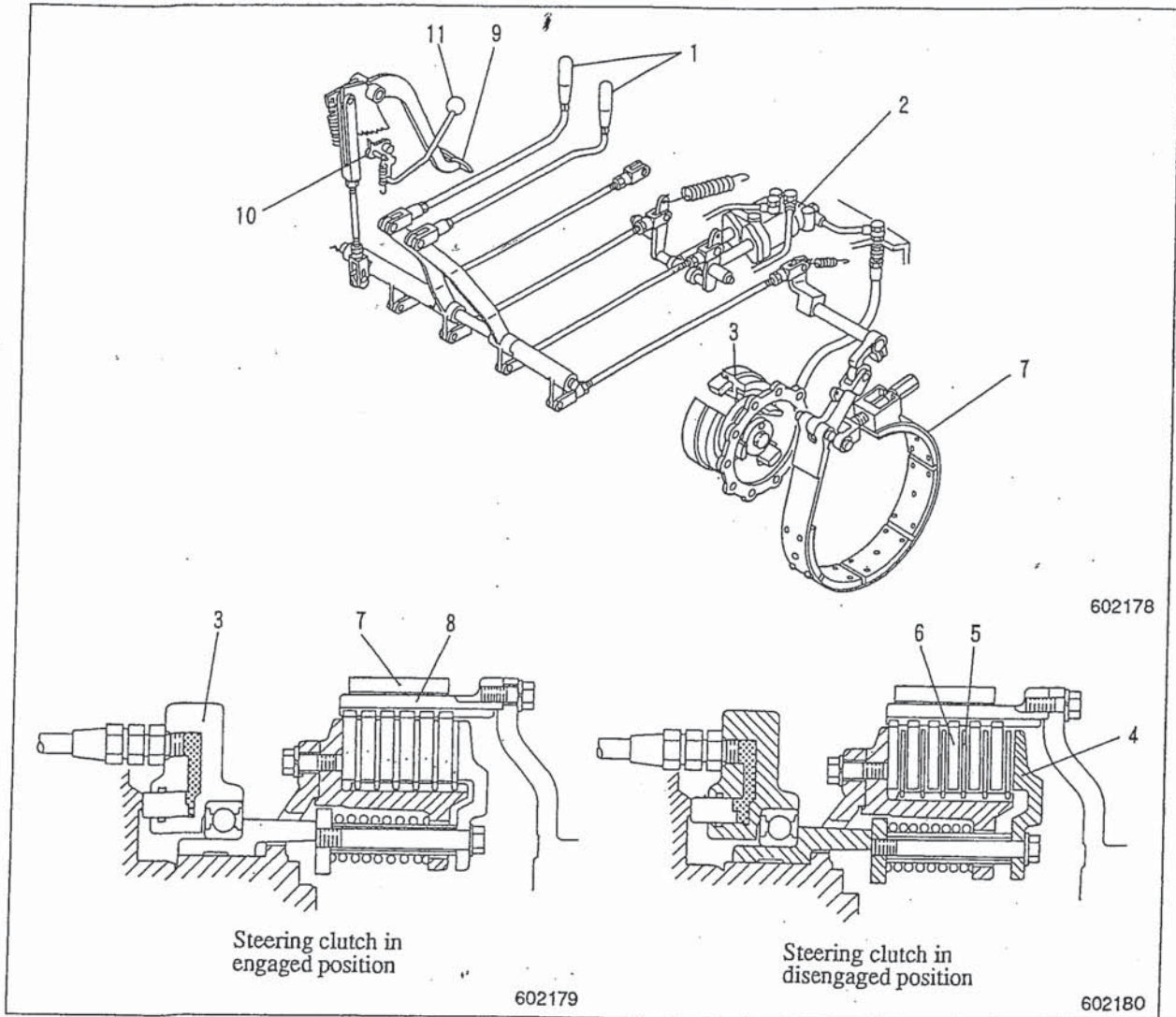
The steering clutch is of dry multi-disc type controlled from steering clutch lever.

Outer (driven) drum 9 is bolted to the flange of final drive pinion. Inner (driving) drum 6 to the flange of drive shaft 3. Friction plates 8 are engaged with the outer drum and disc plates 7 with the inner drum. The stack of these plates is normally kept compressed by spring-loaded

pressure plate 10 to transmit the power to the final drive involving pinion 11 and gear 12. When disengaged, the pressure plate is moved away from the stack.

The outer drum is surrounded by a brake band which is actuated (contracted) from the steering clutch lever to brake the drum.

STEERING CLUTCH AND BRAKE CONTROLS



- | | | |
|----------------------------|------------------|-------------------------|
| 1 Steering clutch lever | 5 Disc plate | 9 Brake pedal |
| 2 Steering valve | 6 Friction plate | 10 Ratchet (brake lock) |
| 3 Steering clutch cylinder | 7 Brake band | 11 Lock/unlock lever |
| 4 Pressure plate | 8 Outer drum | |

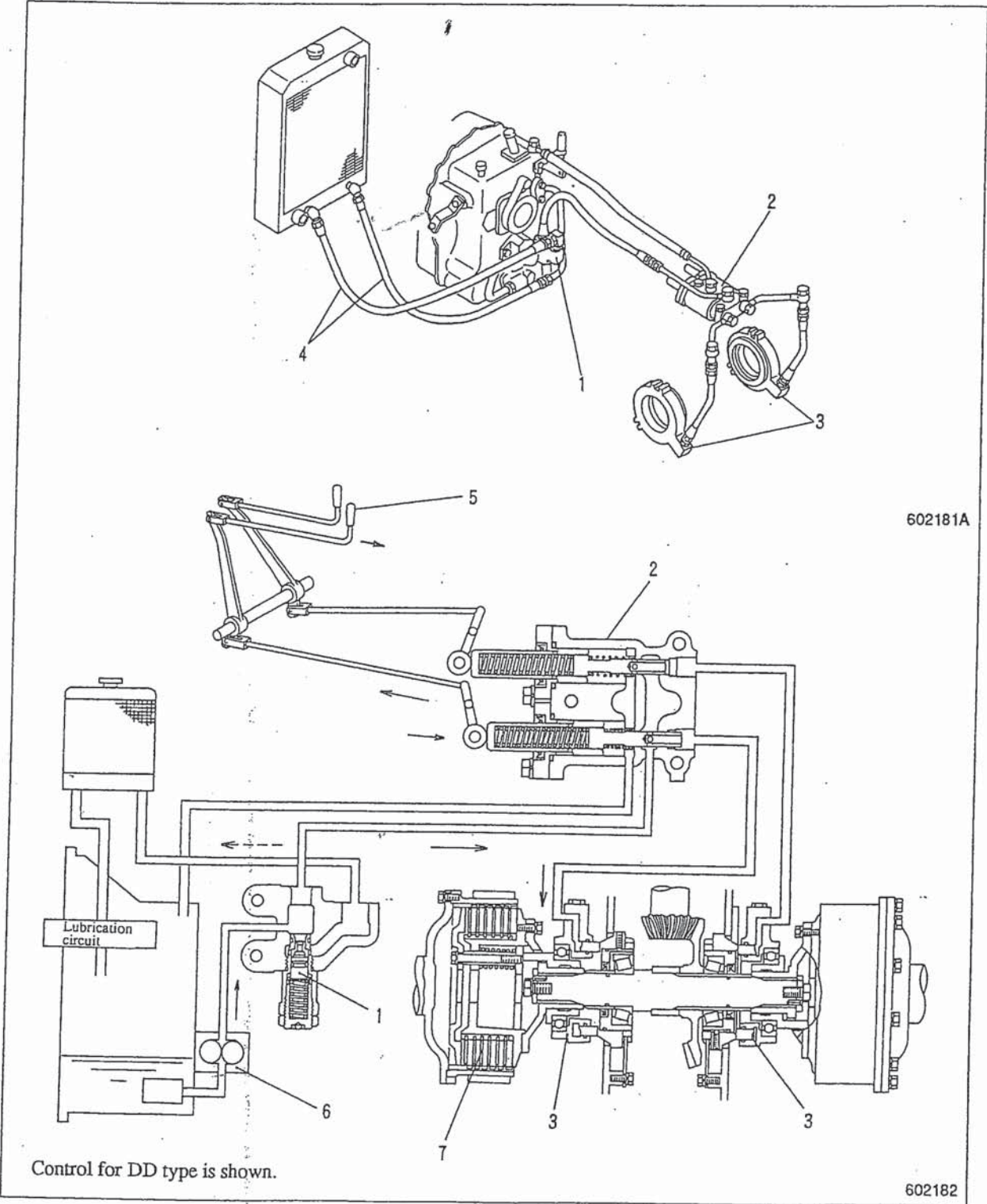
As steering clutch lever 1 is pulled, the piston of steering valve 2 is moved in such a direction as to apply hydraulic pressure to steering clutch cylinder 3. By this hydraulic pressure, pressure plate 4 is moved away from the stack of disc plates 5 and friction plates 6 to disengage the clutch.

When the lever is further pulled, brake band 7 is contracted to brake outer drum 8 to interrupt the flow of power to the final drive.

It is possible to disengage the steering clutch without braking for gradual turn or to disengage it with braking for sharp turn.

As brake pedal 9 is depressed, the brake bands of right-hand and left-hand clutches are simultaneously contracted for braking independently of the clutch control. This pedal can be used as a parking brake if locked in fully depressed position by means of ratchet 10.

STEERING CLUTCH HYDRAULIC CONTROL



602181A

Control for DD type is shown.

602182

- | | | |
|----------------------------|-------------------------|-------------------|
| 1 Relief valve | 4 Oil cooler hose | 6 Gear pump |
| 2 Steering valve | 5 Steering clutch lever | 7 Steering clutch |
| 3 Steering clutch cylinder | | |