

### INPUT GEARS

#### Construction

The input gears consist of an input shaft and counter gears. Separate the front transmission from the engine assembly as outlined in Section 1B to access the input and counter gears.

#### PTO Clutch

The PTO on Hydrostatic tractors is driven thru a wet multi-disc, hydraulically operated clutch pack. For the PTO to work, the mechanical PTO lever located to the left of the operator must be engaged and the on/off switch on the console must be in the "ON" position. When the switch is in the "ON" position, the PTO valve is energized allowing oil pressure to clamp the discs in the PTO clutch pack together and turn the PTO shaft.

#### Oil Supply to Clutch Packs

Oil is transferred from the auxiliary (steering) hydraulic pump to a reducing valve. The reducing valve acts as a flow divider, dividing the flow of oil to a primary and secondary circuit. Oil for the PTO clutch pack and two speed change valve is supplied by the secondary circuit of the reducing valve. In addition, the reducing valve maintains line pressure to the primary circuit to operate the steering orbitrol.

FIG. 5A-07 & 5A-08: Oil pressure to the PTO clutch pack and two speed change valve can be checked using an adaptor fitting from tool kit ATP3031 and a pressure gauge. Test port for the PTO clutch, 1, and two speed change valve, 2, are located under the tractor below the PTO solenoid valve and two speed change valve respectively.

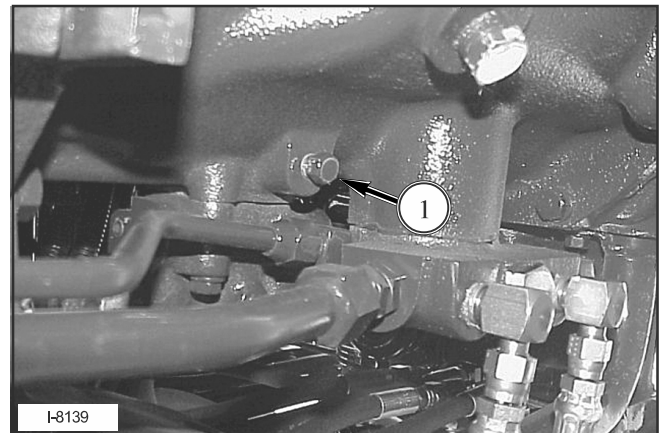


FIG. 5A-07

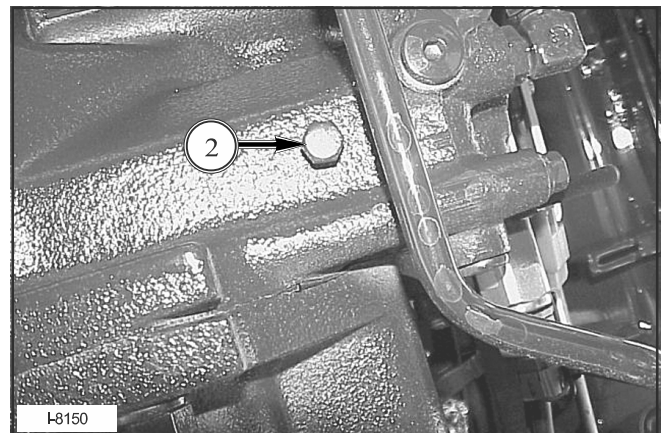
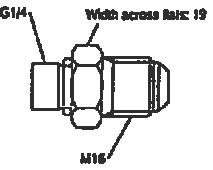
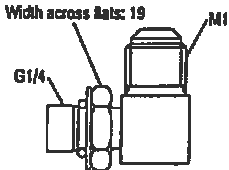
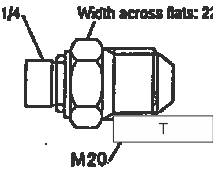
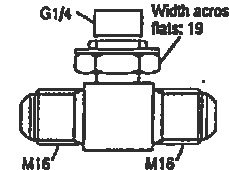
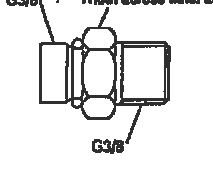
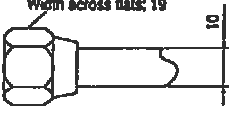
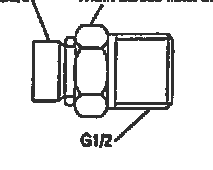
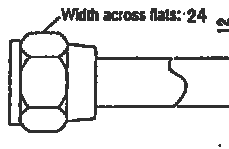
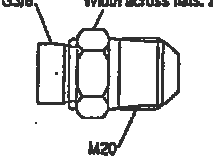
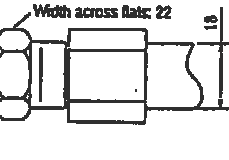


FIG. 5A-08

Specified Tightening Torques Of Pipe Joints

	<p>Adapter (PF 1/4) assembly (1650-509-280)</p> <p>Torque: 24.5 - 29.4 Nm (1.7 - 2 ft. lb.)</p>		<p>Adapter (L/PF 1/4) assembly (1656-509-310)</p> <p>Torque: 24.5 - 29.4 Nm (1.7 - 2.0 ft. lb.)</p>
	<p>Adapter (PF-1/4) assembly (1650-509-290)</p> <p>Torque: 24.5 - 29.4 Nm (1.7 - 2.0 ft. lb.)</p>		<p>Adapter (T/PF 1/4) assembly (1650-509-320)</p> <p>Torque: 24.5 - 29.4 Nm (1.7 - 2.0 ft. lb.)</p>
	<p>Adapter (PF 3/8) assembly (1650-508-320)</p> <p>Torque: 34.3 - 39.2 Nm (2.4 - 2.7 ft. lb.)</p>		<p>Flare nut (Nominal 10)</p> <p>Torque: 24.5 - 29.4 Nm (1.7 - 2.0 ft. lb.)</p>
	<p>Adapter (PF 1/2) assembly (1650-508-340)</p> <p>Torque: 34.3-39.2 Nm (2.4 - 2.7 ft. lb.)</p>		<p>Flare nut (Nominal 12)</p> <p>Torque: 34.3 - 39.2 Nm (2.4 - 2.7 ft. lb.)</p>
	<p>Adapter (PF 3/8) assembly (1650-509-300)</p> <p>Torque: 34.3-39.2Nm (2.4 - 2.7 ft. lb.)</p>		<p>Adapter (PF 3/8) (1650-508-272)</p> <p>Torque: 34.3 - 39.2 Nm (2.4 - 2.7 ft. lb.)</p>

Location of Reducing Valve and Piping

FIG. 5A-09: The valve is installed on the auxiliary gear pump.

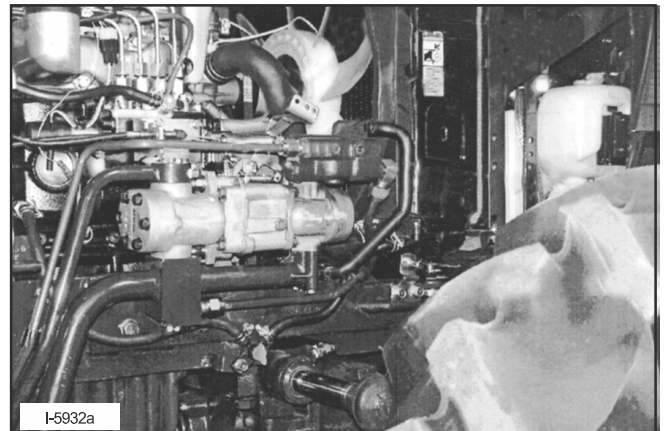


FIG. 5A-09