

HYDROSTATIC MOTOR

Removal and Installation

IMPORTANT

When making repairs on hydrostatic and hydraulic systems, clean the work area before disassembly and keep all parts clean. Always use caps and plugs on hoses, tubelines and ports to keep dirt out. Dirt can quickly damage the system.

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Lift and block the loader. (See Page 1-1.)

Raise the lift arms and install an approved lift arm support device. (See Page 1-1.)

Raise the operator cab. (See Page 1-1.)

Remove the front tire/wheel assembly.

Remove the four mounting bolts for the motor cover (Item 1) [A].

Remove the motor cover.

Mark the hoses for correct installation.

Disconnect the case drain hose (Item 1) [B].

Disconnect the high pressure hoses (Item 2) [B].

Remove the four mounting bolts (Item 1) [C] from the motor.

Installation: Tighten the bolts to 65–70 ft.-lbs. (88–95 Nm) torque.

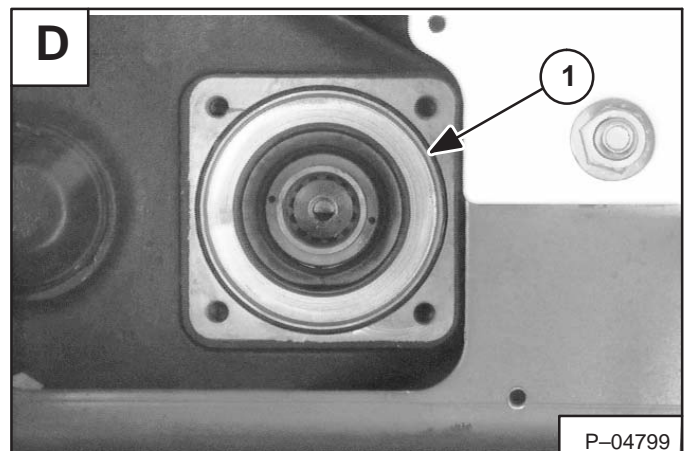
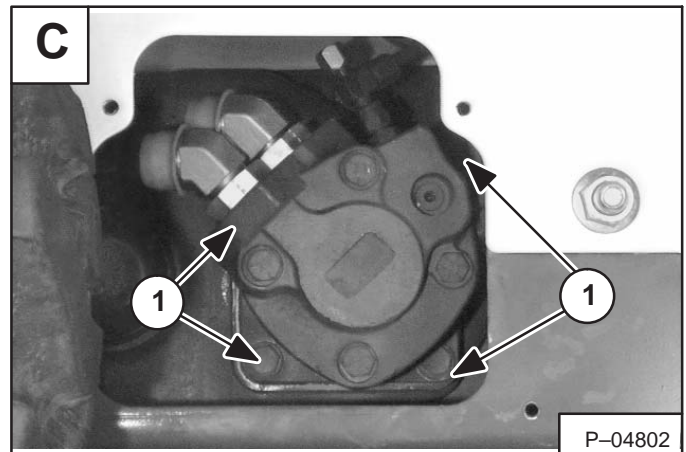
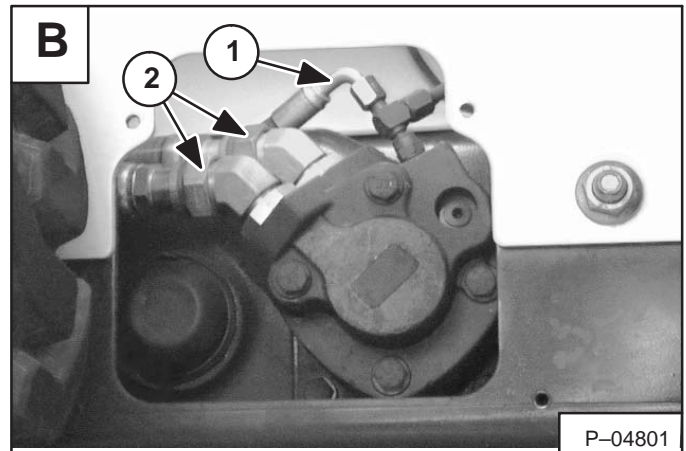
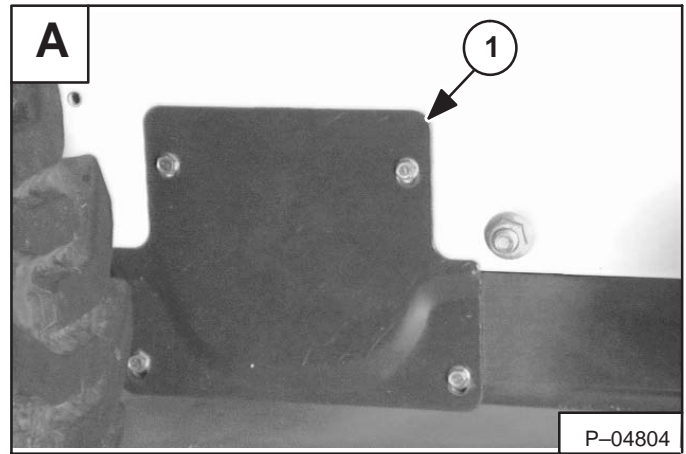
Remove the hydrostatic motor from the gearcase.

Installation: Replace the large O-ring (Item 1) [D] and face seals on the motor fittings before installing the motor.

! WARNING

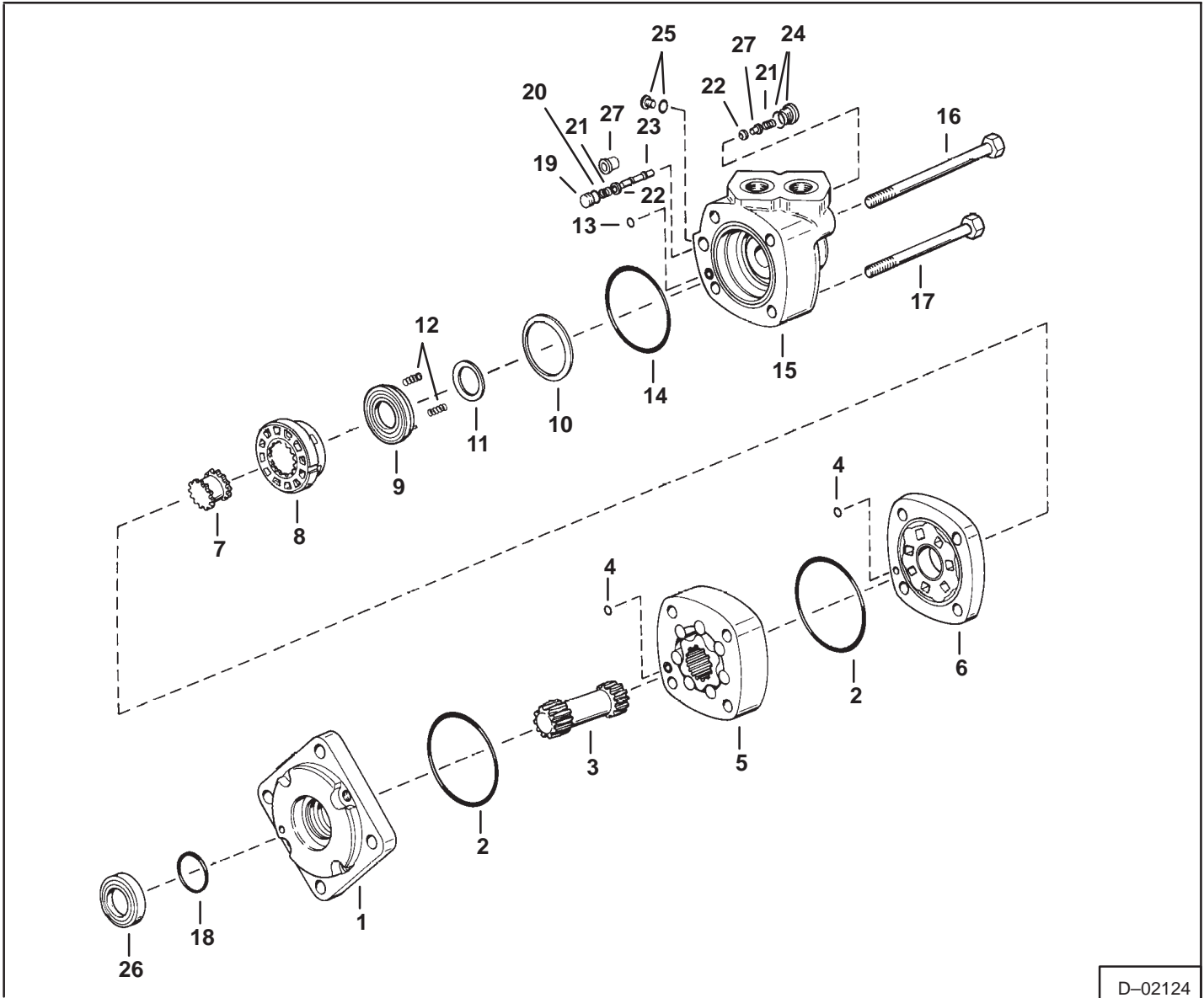
Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire which can result in injury or death.

W-2103-1285



HYDROSTATIC MOTOR (Cont'd)

Parts Identification



Ref.	Description	Ref.	Description
1	FLANGE, mounting	15	HOUSING, valve
2	O-RING	16	BOLT
3	DRIVE	17	BOLT
4	O-RING	18	SEAL
5	GEROLER	19	PLUG
6	PLATE, valve	20	O-RING
7	DRIVE, valve	21	SPRING
8	VALVE	22	POPPET
9	PLATE, balance assy.	23	PISTON
10	SEAL, outer	24	PLUG
11	SEAL, inner	25	PLUG
12	SPRING	26	BEARING, bronze
13	O-RING	27	SHUTTLE
14	O-RING		

HYDROSTATIC MOTOR (Cont'd)

Disassembly

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Put a mark across the sections for correct assembly.

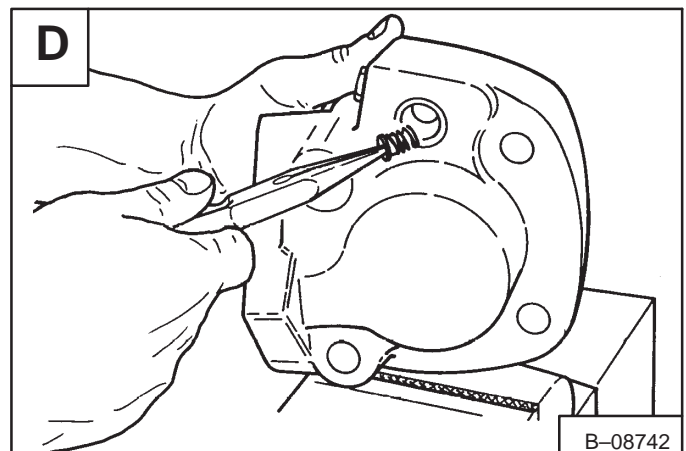
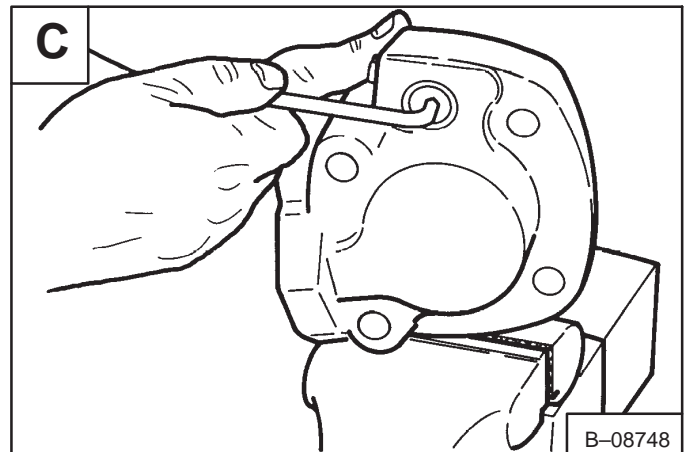
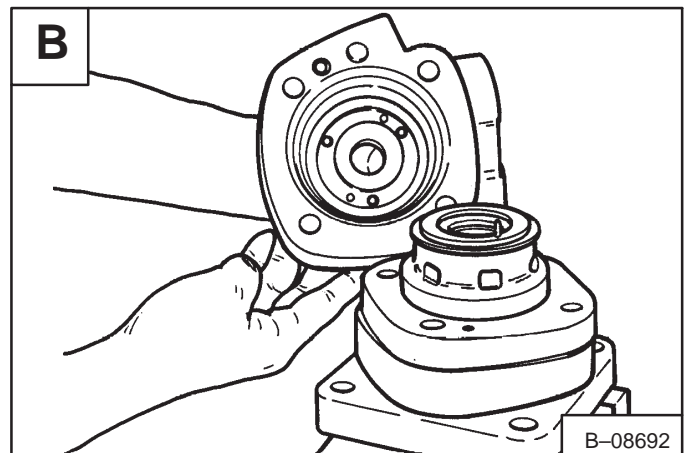
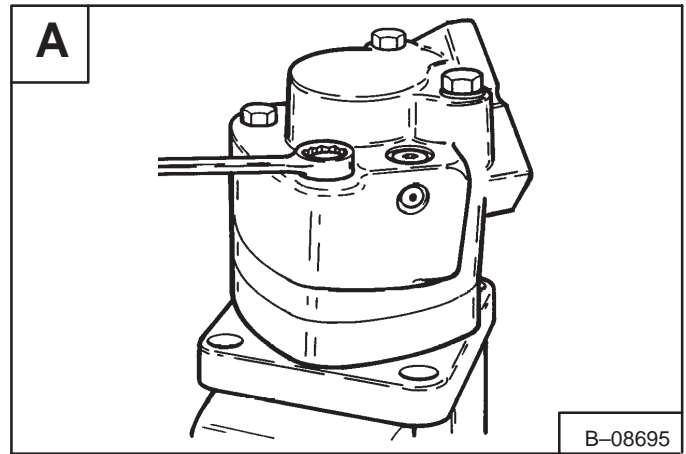
Remove the four bolts from the motor [A].

Lift the valve housing straight up [B]. If done carefully, the springs and balance plate will stay on the valve.

Remove the O-rings.

Remove the plug at the shuttle valve [C].

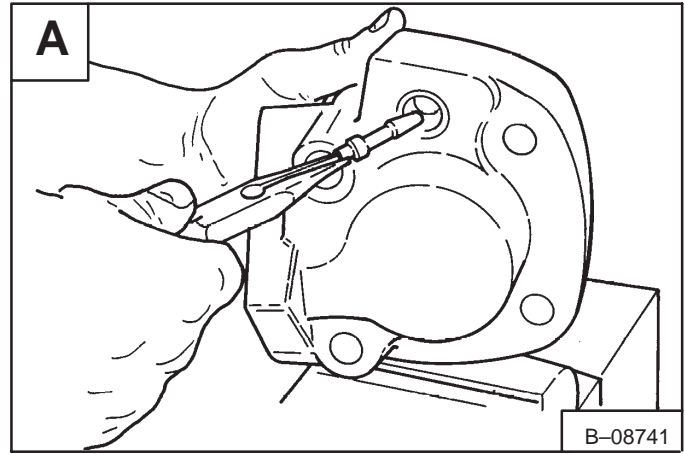
Remove the spring and shuttle [D].



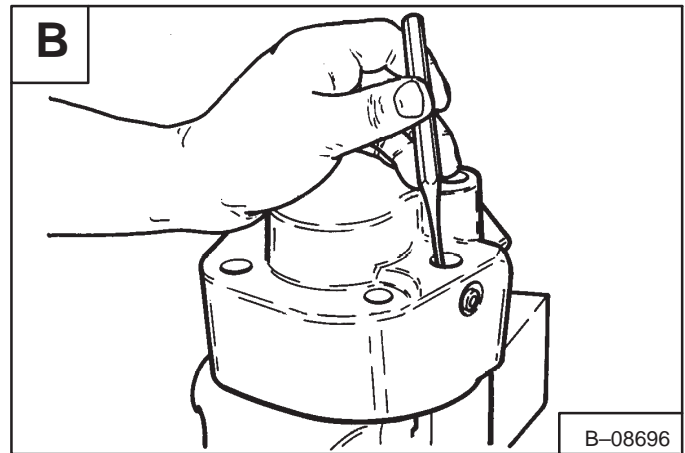
HYDROSTATIC MOTOR (Cont'd)

Disassembly (Cont'd)

Remove the shuttle valve spool [A].



Use a punch, through the housing and remove the poppet, spring, O-ring and plug from the other side [B].



Remove the balance plate [C].

