

## HYDROSTATIC DRIVE MOTOR

### Removal and Installation



# WARNING

Never work on a machine with the lift arms up unless the lift arms are secured by an approved lift arm support device. Failure to use an approved lift arm support device can allow the lift arms or attachment to fall and cause injury or death.

W-2059-0598

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

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

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

Remove the front and rear wheel/tire assemblies. (See Page 1-1.)

Remove the control panel. (See Page 3-5.)

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

Mark the two hoses (Item 1) [B] before disconnecting them from the hydrostatic drive motor for correct installation.

**NOTE: Photo's may appear different but the procedure is the same.**

Remove the two hoses (Item 1) [B] from the drive motor.

Remove the drain hose (Item 2) [B] from the drive motor.

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

**Installation:** Tighten the drive motor mounting bolts to 90-100 ft.-lbs. (122-136 Nm) torque.

Remove the drive motor from the access hole in the loader frame [D].

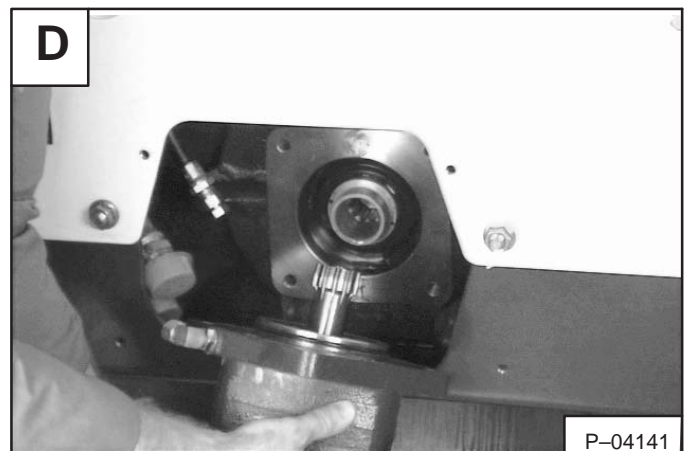
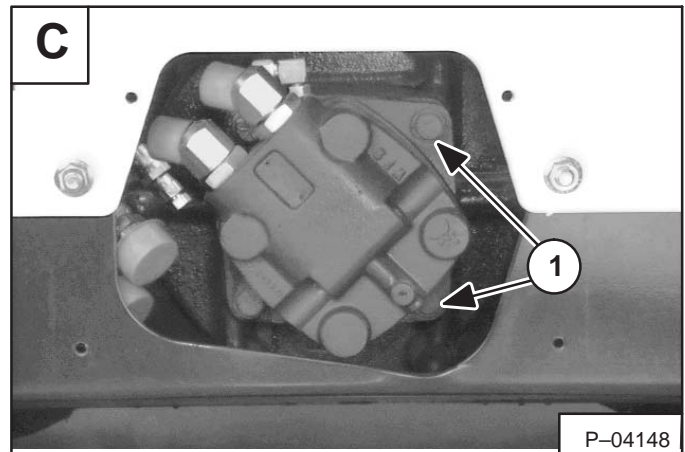
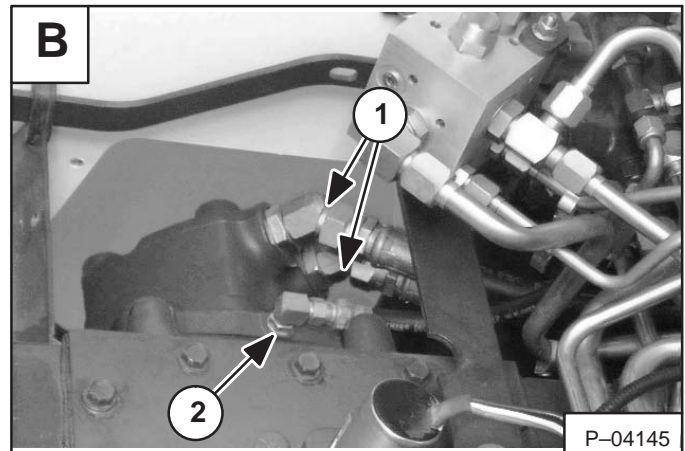
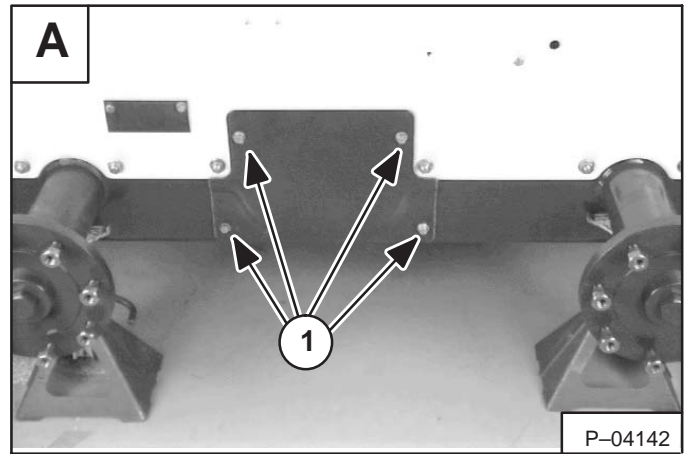
Reverse the removal procedure to install the hydrostatic drive motor.



# WARNING

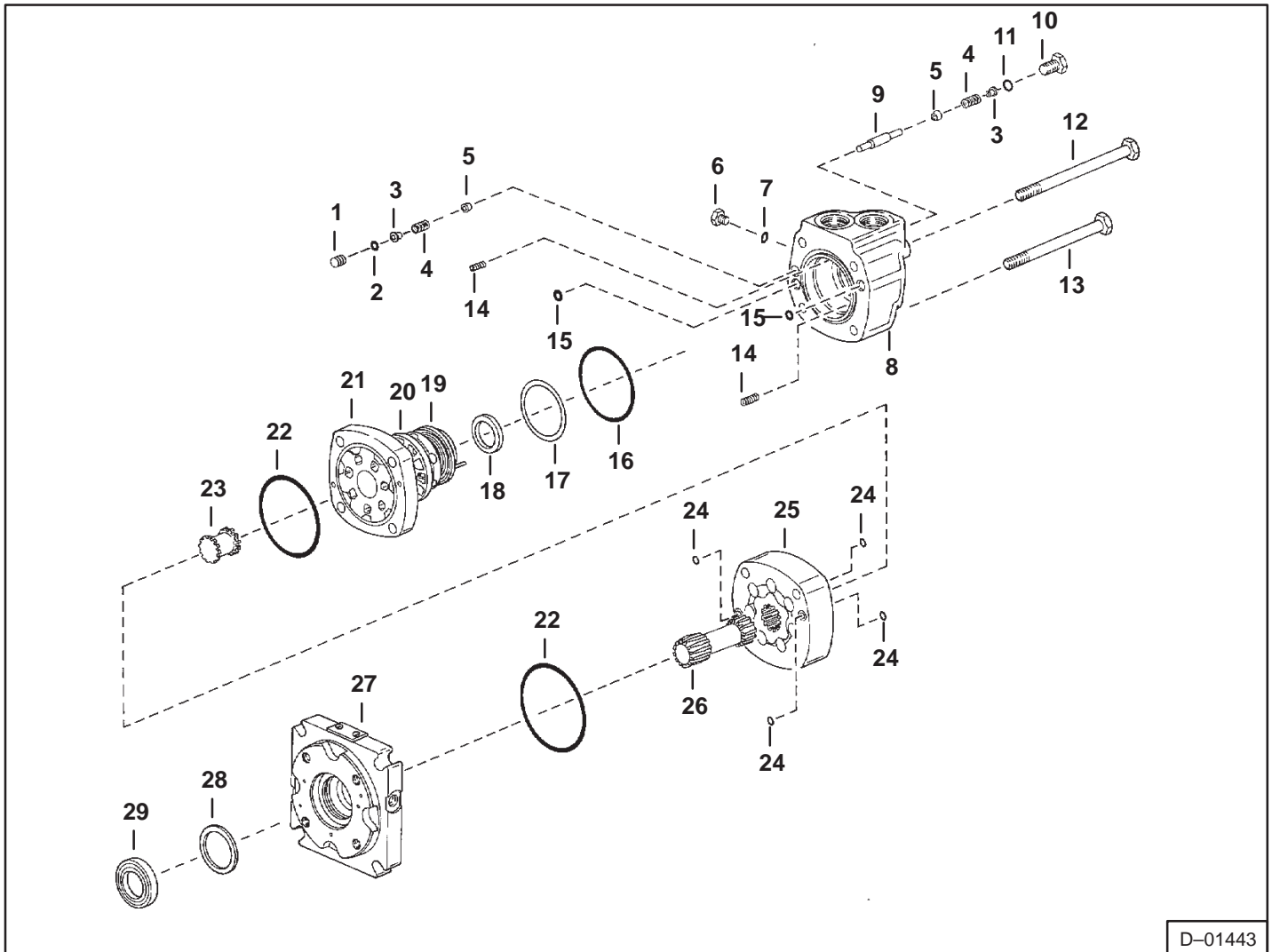
Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire which can result in injury or death.

W-2103-1285



# HYDROSTATIC DRIVE MOTOR (Cont'd)

Identification (S/N 512218843 & Below, S/N 512612191 & Below & S/N 512440645 & Below)



D-01443

Ref.	Description	Ref.	Description
1.	PLUG	16.	O-RING
2.	O-RING	17.	SEAL,outer
3.	SHUTTLE	18.	SEAL,inner
4.	SPRING	19.	PLATE,balancing
5.	POPPET	20.	VALVE
6.	PLUG	21.	PLATE,valve
7.	O-RING	22.	O-RING
8.	HOUSING	23.	SHAFT
9.	PISTON	24.	O-RING
10.	PLUG	25.	GEROLER
11.	O-RING	26.	SHAFT
12.	BOLT	27.	FLANGE
13.	BOLT	28.	SEAL
14.	SPRING	29.	BUSHING,bronze
15.	O-RING		

## HYDROSTATIC DRIVE MOTOR (Cont'd)

THE ILLUSTRATIONS MAY NOT EXACTLY SHOW THE SAME MOTOR YOU ARE WORKING ON, BUT THE PROCEDURE IS THE SAME.

Disassembly And Assembly (S/N 512218843 & Below, S/N 512612191 & Below & S/N 512440645 & Below)

### IMPORTANT

When repairing 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.

I-2003-0888

Put a mark across the sections for correct assembly.

Remove the four bolts from the motor [A].

**Assembly:** Tighten the bolts as follows:

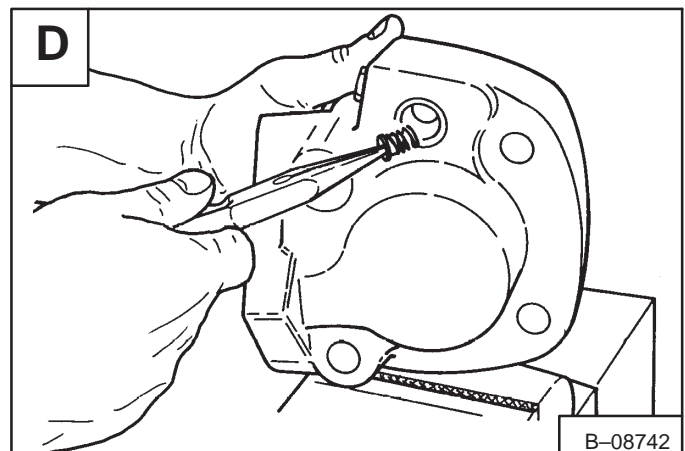
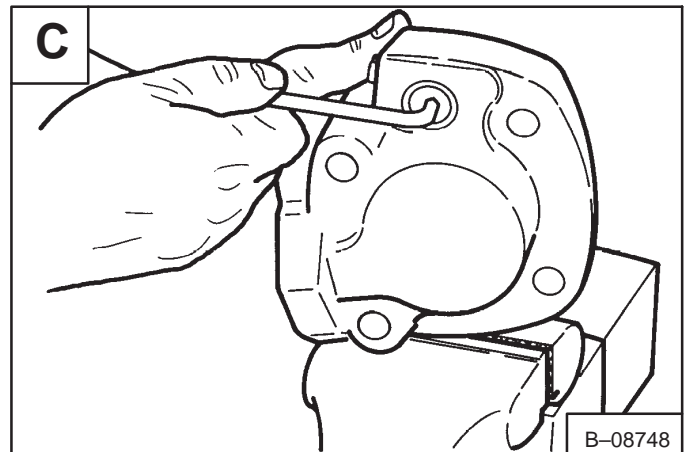
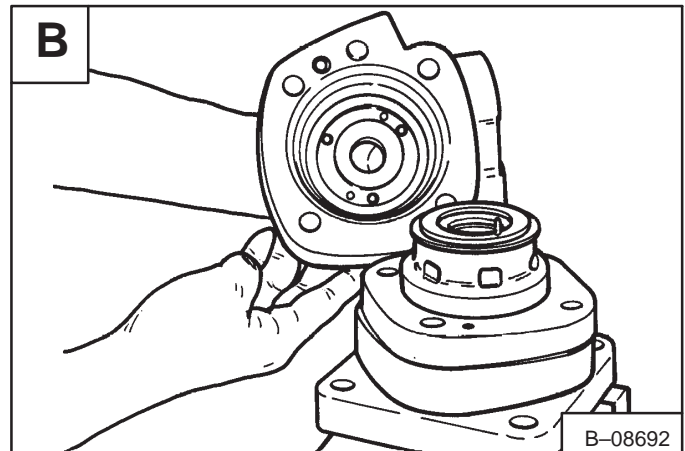
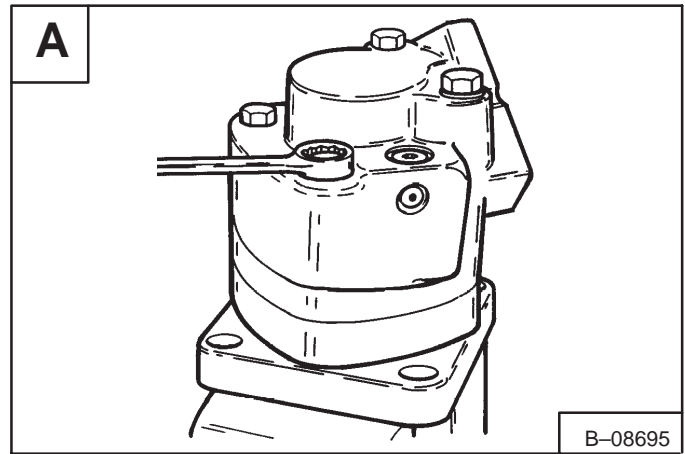
Lift the valve housing straight up [B]. If done carefully, the springs and balance plate will stay on the valve.

Remove the O-rings.

Remove the plug at the shuttle valve [C].

**Assembly:** Tighten the plug to 200 in.-lbs. (22,6 Nm) torque.

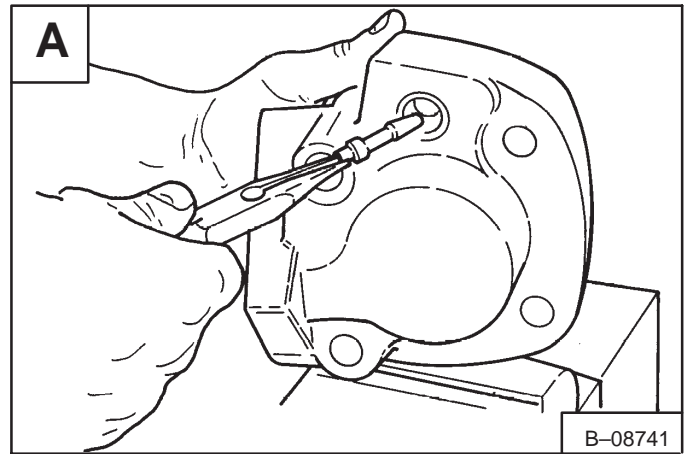
Remove the spring and shuttle [D].



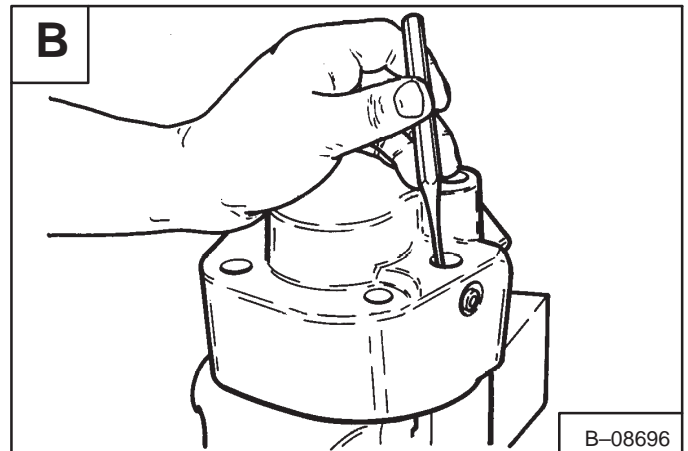
## HYDROSTATIC DRIVE MOTOR (Cont'd)

Disassembly And Assembly (S/N 512218843 & Below, S/N 512612191 & Below & S/N 512440645 & Below) (Cont'd)

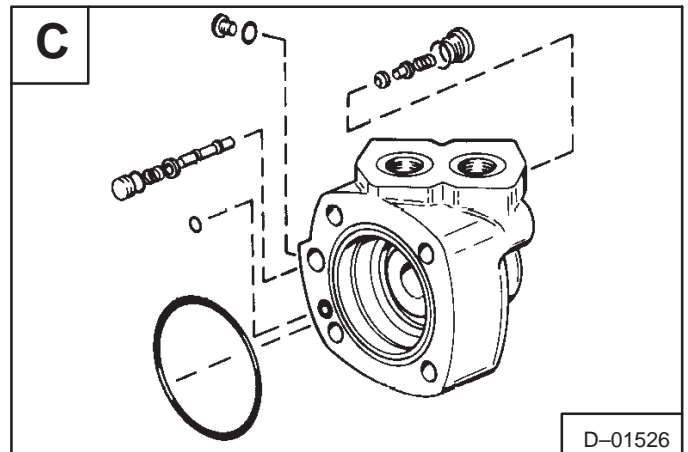
Remove the shuttle valve spool [A].



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



**Assembly:** Make sure all parts are cleaned and check for wear. Assembly as shown [C].



Remove the balance plate [D].

