INSTRUCTIONS FOR INSTALLING 191320A1 TRENCHER HYDRAULIC KIT, 191321A1 P75 ATTACHMENT KIT, AND 191322A1 P40 ATTACHMENT KIT ON MAXI SNEAKER SERIES C

PARTS LIST - 191320A1 Kit

REF.	PART NO.	DESCRIPTION	QTY.	REF.	PART NO.	DESCRIPTION QTY.
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	179581A1 432-48 H35279 241-1315 413-536 232-4115 H419101 H544718 218-5107 218-5062 H432542	LEVER - valve	1 1 1 3 1 1 1 4	20. 21. 22. 23. 24.	L12437 495-11034 413-616 495-11041 232-4116 218-736 L18331 515-23444 413-516 225-14210 179590A1	JOINT - ball
12.	L78468	HOSE - 940 mm (37 inches)		30.	179583A1	HARNESS - neutral switch 1
13. 14. 15. 16. 17. 18.	H432609 179579A1 321-3214 H419473 413-540 193-1000	HOSE - 2100 mm (83 inches) BRACKET - valve mounting DECAL - warning DECAL - one attachment BOLT - 5/16 NC x 2-1/2 NUT - no. 10	1 1 1 1	31. 32. 33. 34. 35.	106402A1 496-11034 H346650 179582A1 495-21038	SWITCH - neutral start 1 WASHER - flat, 5/16 5 NUT - U-type, 5/16 5 COVER - neutral switch 1 WASHER375 x .875 x .083 1
PARTS LIST - 191321A1 Kit, Trencher with P75 Plow						
REF.	PART NO.	DESCRIPTION	QTY.	REF.	PART NO.	DESCRIPTION QTY.
36. 37. 38.	H433466 H165340 218-5135	HOSE - 2050 mm (81 inches) HOSE - 305 mm (12 inches) ELBOW - 45 degree, adjustable	1		218-5105 H757815 321-4651	ELBOW - 90 degree, adjustable 2 ORIFICE
PARTS LIST - 191322A1 Kit, Trencher with P40 Plow						
REF.	PART NO.	DESCRIPTION	QTY.	REF.	PART NO.	DESCRIPTION QTY.
42. 43. 44. 45. 46. 47. 48.	H165282 H171264 218-5135 218-5105 H248989 H169151 H433466	HOSE - 533 mm (21 inches) HOSE - 457 mm (18 inches) ELBOW - 45 degree, adjustable ELBOW - 90 degree, adjustable HOSE - 686 mm (27 inches) HOSE - 610 mm (24 inches) HOSE - 2050 mm (81 inches)	1 1 6 1	49. 50. 51. 52. 53. 54. 55.	H757815 H419119 H434287 H672689 413-652 495-11041 232-4116	ORIFICE 1 DECAL - selector 1 DECAL - raise/lower attachment 1 VALVE - selector 1 BOLT - 3/8 NC x 3-1/4 2 WASHER406 x .812 x .065 4 NUT - 3/8 NC 2



GENERAL INFORMATION

The illustrations for this instruction sheet are on the last pages. Separate the pages so that you can see the illustrations as you read the instructions.

The reference numbers and the letters on the illustrations are the same as the reference numbers and letters in the instructions.

Special torque specifications are included in the instructions. If torque specifications are not included in the instructions, use standard torque specifications. See your Service Manual or Case Dealer if you need standard torque specifications.

CONTROL VALVE INSTALLATION

See Figures 1 and 2 for steps 1 through 26.

- Put the valve mounting bracket (14) in position on the RH side console.
- 2. Install the two bolts (21), six flat washers (22), and two nuts (23).
- 3. Install the elbows (9) in ports (A and B) of the control valve (8) as shown.
- Install two short connectors (10) in ports (C and D) of the control valve (8).
- 5. Put the control valve (8) in position under the bracket (14) and install the bolts (5 and 17), two flat washers (20), and two nuts (6) in locations shown.
- 6. Put the valve lever (1) in position in the bracket (14) and install the clevis pin (3) and cotter pin (2).
- 7. Use the link (4) to connect the valve lever (1) to the control valve (8).
- 8. Fasten the neutral start switch (31) to the bracket (14) using two bolts (27), flat washers (32), and Unuts (33).
- 9. Connect the neutral start switch wire to the main wiring harness using the harness (30).
- 10. Install the rod (29) between the neutral start switch (31) and the valve lever (1). Use the ball joint (19) and nuts (18 and 28) as shown.

- 11. Adjust the rod (29) in the neutral start switch (31) so that the machine will only start in the NEUTRAL position. Tighten the rod (29) in the neutral start switch (31).
- 12. Connect a hose (13) to the connector (10) at the front port (C) of the control valve (8). Put an identification tag on the other end of the hose with the words "C port" on the tag.
- 13. Connect the other hose (13) to the connector (10) at the rear port (D) of the control valve (8).
- 14. Route both hoses (13) along the fender towards the front of the machine.
- 15. Use the clamp (26) to fasten the two hoses (13) to the fender.
- 16. Install a bolt (27), flat washer (20), and nut (6) through the clamp (26) and existing hole in the fender.
- 17. Install the other two short connectors (10) in both ports of the trencher motor (G).
- Connect the hose (13) with the tag "C port" to the connector (10) at the top port of the trencher motor (G).
- 19. Connect the other hose (13) to the connector (10) at the bottom port of the trencher motor (G).
- 20. Connect the hose (12) to the elbow (9) at the IN (A) port of the control valve (8).
- 21. Connect the hose (11) to the elbow (9) at the OUT (B) port of the control valve (8).
- Remove the existing bolt and flat washer from the console cover so that the cover (34) can be installed.
- 23. Install the cover (34) to the bracket (14) using the three bolts (27), flat washers (32), and U-nuts (33).
- 24. Fasten the cover (34) to the console cover using the flat washer (35) and the existing bolt.
- 25. Install the decal (7) to the valve mounting bracket (14) in location shown.
- 26. If installing Kit 191322A1, install the decal (50) to the cover (34) in location shown.

HOSE CONNECTIONS FOR MACHINE WITHOUT HYDRA-BORER

 See Figure 3. Disconnect the hose (A) from the elbow (B).

See Figure 4 for steps 2 and 3.

- 2. Use the union (24) to connect hose (11) to the hose (A) you disconnected from the hydraulic pump (D).
- 3. Connect the hose (12) to the elbow (B) at the hydraulic pump (D).

HOSE CONNECTIONS FOR MACHINE WITH HYDRA-BORER

 See Figure 5. Disconnect the hose (H) from the elbow (B).

See Figure 6 for steps 2 and 3.

- 2. Connect the hose (12) to the elbow (B) at the hydraulic pump (D).
- Use the union (24) to connect hose (11) to hose (H) connected to the Hydra-Borer control valve (IN port).

P40 SELECTOR VALVE INSTALLATION

See Figure 7 for steps 1 through 14.

- 1. Install the elbow (44) in port (B) of the selector valve (52).
- 2. Install five elbows (45) in ports (A and C through F) of the selector valve (52).
- 3. Put the selector valve (52) in position on the bracket (14).
- 4. Install the two bolts (53), four flat washers, and two nuts (55) to fasten the selector valve (52).
- 5. Connect the hose (48) to the elbow at the E port.
- 6. Route the hose (48) along the fender with the existing two hoses to the front of the machine.

- 7. Install the last elbow (45) in the base end of the trencher lift cylinder (K).
- 8. Connect the hose (48) to the elbow (45) at the trencher lift cylinder (K).
- 9. Route the hose (G) back along the fender with the existing three hoses to the selector valve (52).
- 10. Connect the hose (G) to the elbow (45) at the F port of the selector valve (52).
- 11. Connect the hose (43) to the elbow (45) at the A port of the selector valve (52).
- 12. Connect the hose (42) to the elbow (44) at the B port of the selector valve (52).
- 13. Connect the hose (47) to the elbow (45) at the C port of the selector valve (52).
- 14. Connect the hose (46) to the elbow (45) at the D port of the selector valve (52).

P40 HOSE CONNECTIONS FOR PLOW LIFT CYLINDER TO STEERING VALVE

NOTE: The steering valve is located behind the console.

1. **See Figure 8.** Remove the hoses (E and F) from the steering valve (A) and plow lift cylinder (D).

See Figure 7 for steps 2 through 8.

- 2. Connect the hose (42) to the closed end of the plow lift cylinder.
- 3. Connect the hose (43) to the rod end of the plow lift cylinder.
- 4. Connect the hose (46) to the connector (J) at the steering valve (H).
- 5. Install the orifice (49) in the port of the steering valve (H) as shown. The slot in the orifice (49) must be away from the steering valve (H).
- Reinstall the elbow (L) in the steering valve (H) as shown.
- 7. Connect the hose (47) to the existing elbow (L) at the steering valve (H).
- 8. Use a tie strap (25) to fasten the hoses (42, 46, and 47) as shown.

P75 HOSE CONNECTIONS FOR TRENCHER LIFT CYLINDER TO STEERING VALVE

NOTE: The steering valve is located behind the console.

See Figure 9 for steps 1 through 4.

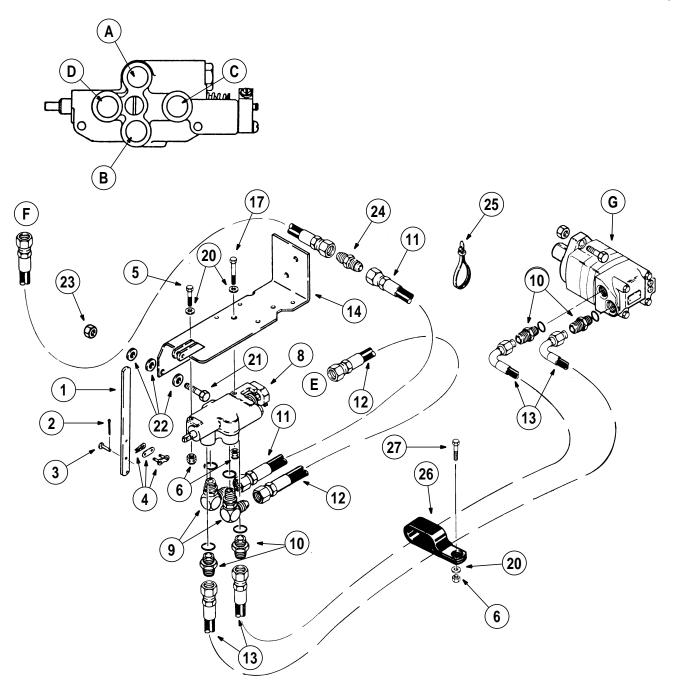
- Replace the 45 degree elbow located in the front of the steering valve (A) with the 90 degree elbow (39) and an orifice (40) as shown. The slot in the orifice (40) must be away from the steering valve (A).
- 2. Replace the straight connector located in the bottom of the steering valve (A) with the 45 degree elbow (38) and the other orifice (40) as shown. The slot in the orifice (40) must be away from the steering valve (A).
- 3. Replace the fitting in the closed end of the trencher lift cylinder (B) with the other elbow (39).
- 4. Replace the hoses that run between the steering valve (A) and the trencher lift cylinder (B) with the new hoses (36 and 37) as shown.

DECAL INSTALLATION

1. **See Figure 10.** Install the decals (15, 16, and 41 or 51) to the console (A) in locations shown.

CHECKING HYDRAULIC CONNECTIONS

- 1. See the Operators Manual and check the level of oil in the hydraulic reservoir. Add as needed.
- 2. Start the engine and run the engine at low idle.
- 3. Put the selector lever in the PLOW LIFT position.
- 4. Use the attachment lever to raise and lower the plow 2 or 3 times.
- 5. Lower the plow to the ground.
- 6. Put the selector lever in the TRENCHER LIFT position.
- 7. Use the attachment lever to raise and lower the trencher boom 2 or 3 times.
- 8. Put the trencher boom approximately 305 mm (12 inches) above the ground.
- 9. Slowly push the DIGGING CHAIN lever to the TRENCH position for approximately 30 seconds.
- 10. Slowly pull the DIGGING CHAIN lever to the STOP position.
- 11. Lower the trencher boom to the ground.
- 12. Stop the engine and check for hydraulic oil leaks.
- 13. See the Operators Manual and check the level of oil in the hydraulic reservoir. Add as needed.



BS95F110

- A. IN Port
- B. OUT Port
- C. Front Port
- D. Rear Port

- E. To Hydraulic Pump
- F. To Plow Control Valve or Hydra-Borer Control Valve (IN Port)
- G. Trencher Motor

Figure 1

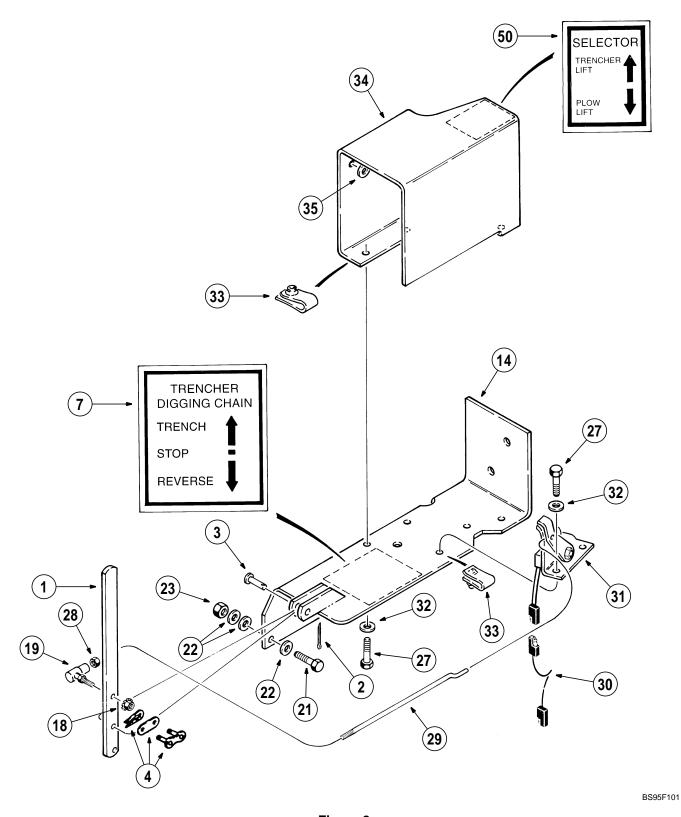


Figure 2

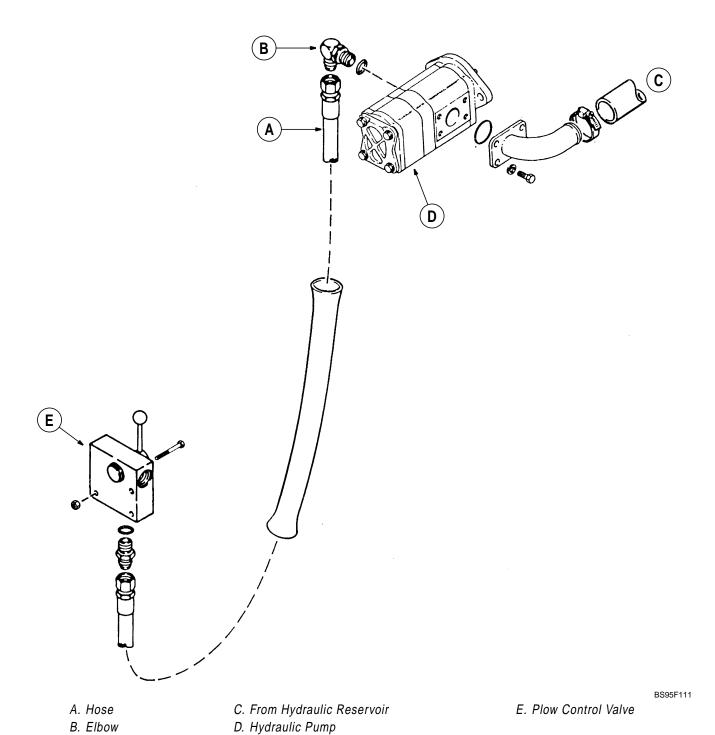


Figure 3

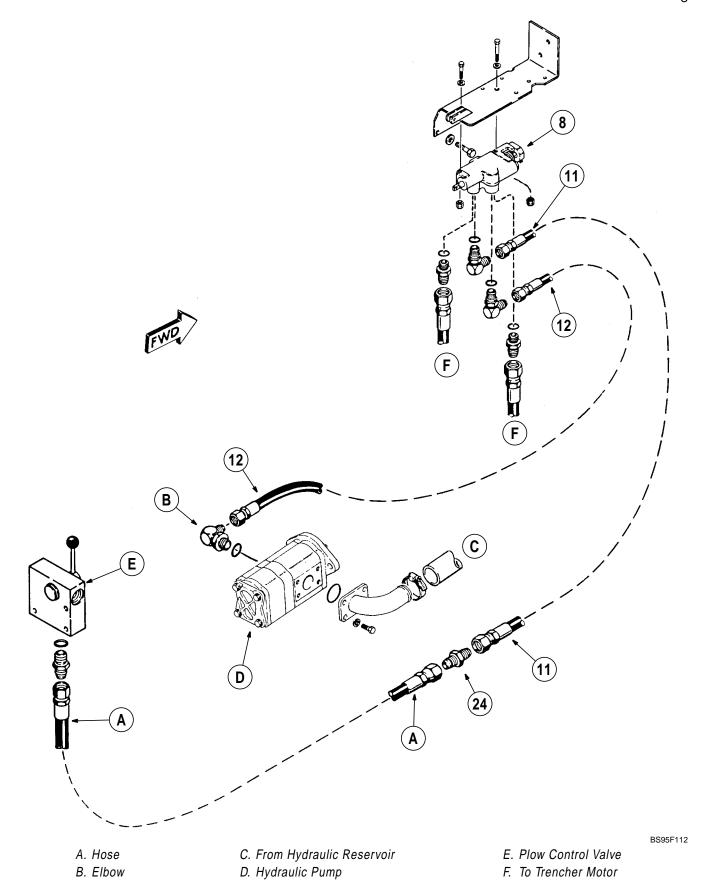
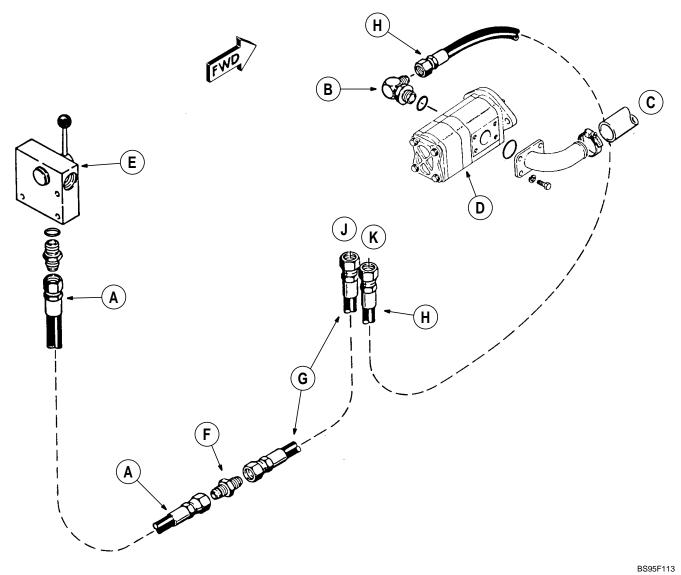


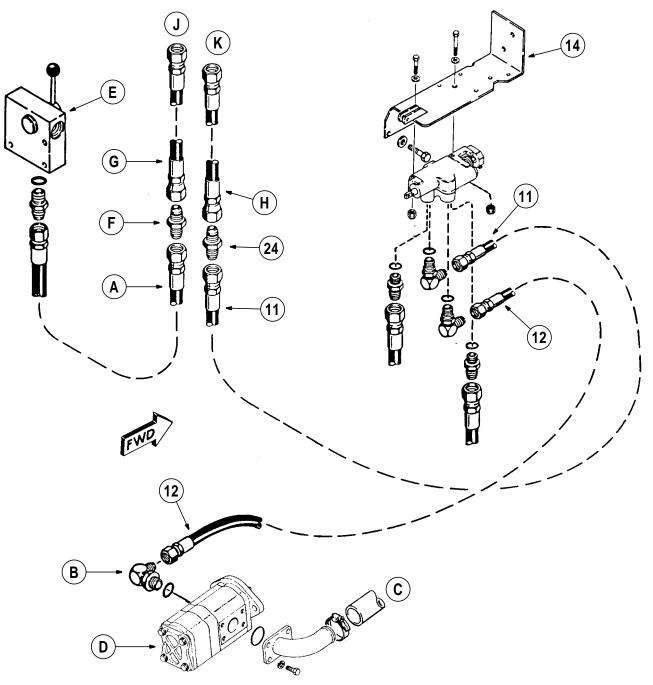
Figure 4 - Without Hydra-Borer



- A. Hose
- B. Elbow
- C. From Hydraulic Reservoir
- D. Hydraulic Pump
- E. Plow Control Valve

- F. Connector
- G. Hose
- H. Hose
- J. Hydra-Borer Control Valve (OUT Port)
- K. Hydra-Borer Control Valve (IN Port)

Figure 5 - Hydra-Borer Control Valve Connections



BS95F114

- A. Hose
- B. Elbow
- C. From Hydraulic Reservoir
- D. Hydraulic Pump
- E. Plow Control Valve

- F. Connector
- G. Hose
- H. Hose
- J. Hydra-Borer Control Valve (OUT Port)
- K. Hydra-Borer Control Valve (IN Port)

Figure 6 - With Hydra-Borer

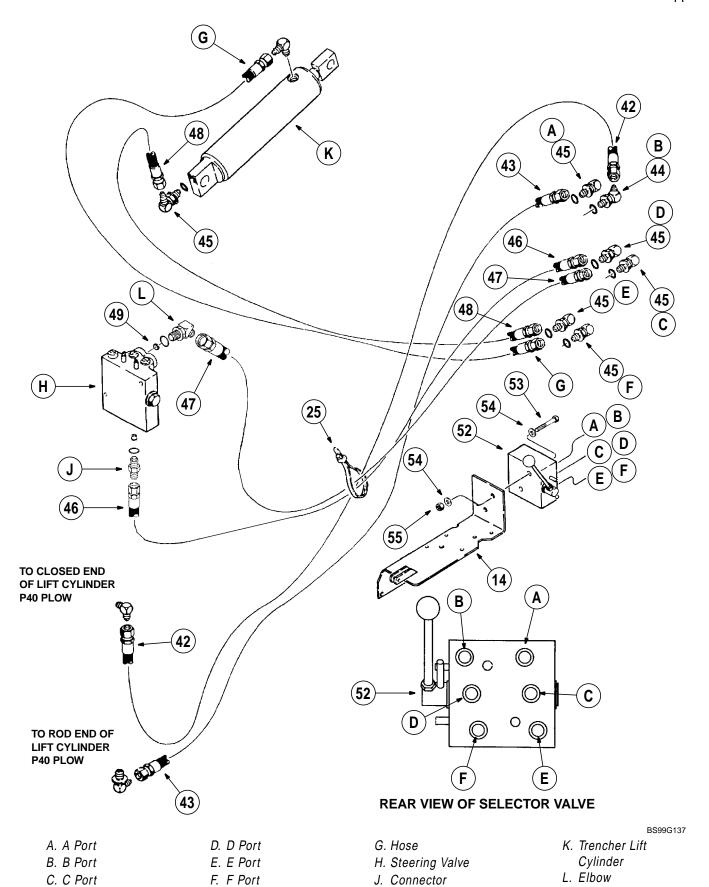
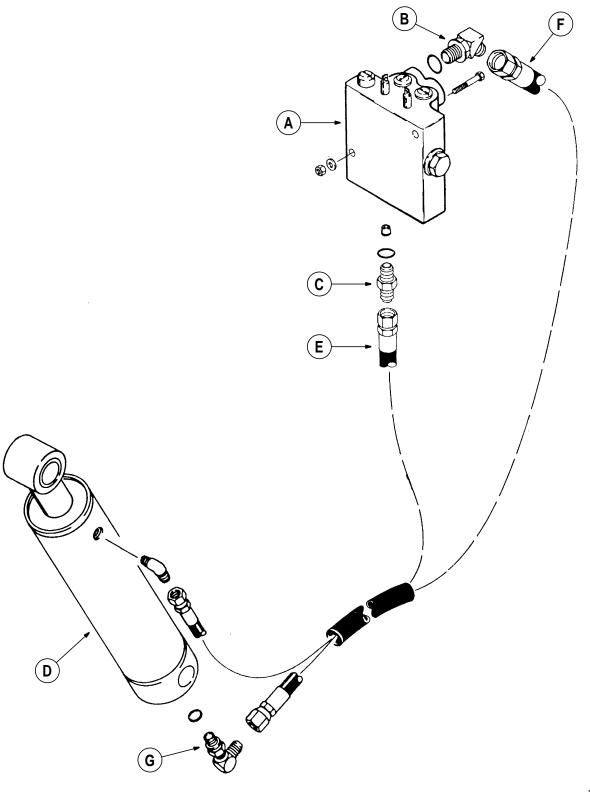


Figure 7 - with P40 Plow



BS95F116

G. Elbow

A. Steering Valve

B. Elbow

C. Connector

D. Plow Lift Cylinder

E. Hose

F. Hose

Figure 8 - with P40 Plow

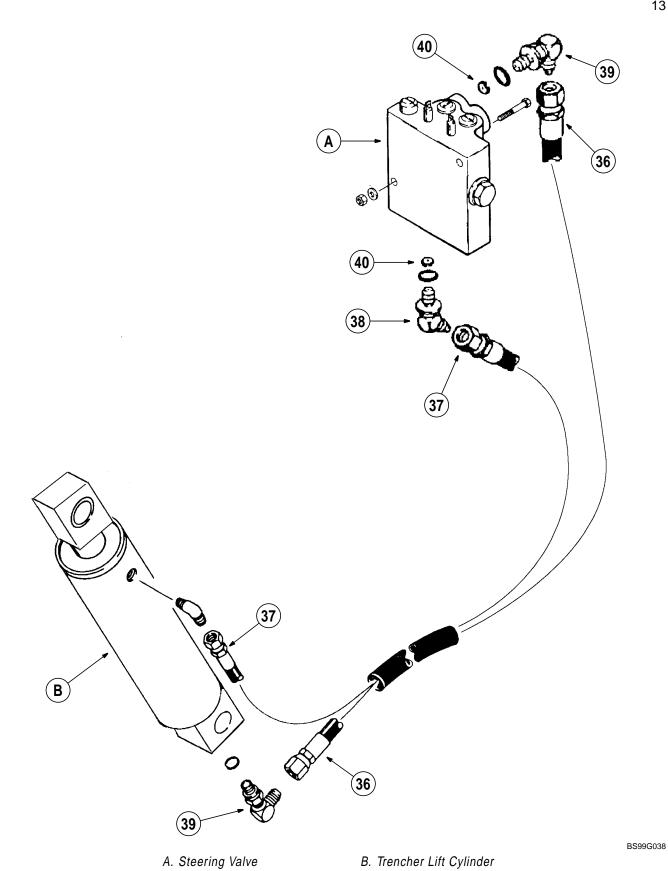
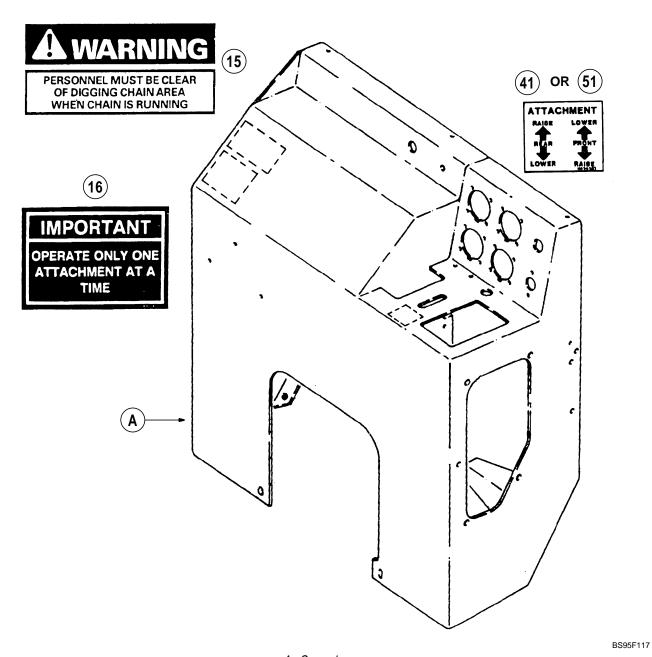


Figure 9 - with P75 Plow



A. Console

Figure 10