

OPERATOR'S MANUAL

SKID STEER BACKHOE FLOW DIVIDER KIT FOR AMEREQUIP MODEL 6600, 7600, 8600, AND 9600 BACKHOES

General Description

This kit should be installed before assembling the skid steer adapter weldment to the basic backhoe - Model 6600, 7600, and 9600 backhoes only. The kit does not include any hydraulic hook up components. Hoses and fittings can be obtained through your local dealership. The hose end fittings connecting to the flow divider will require 7/8-14 37-degree JIC female threads. Finally, consult your Backhoe Operator's Manual for complete assembly instructions for the basic backhoe.

Backhoe must be equipped with a Flow Divider if skid steer hydraulic flow rate exceeds 12 gallons per minute.

IMPORTANT: Tighten all hardware to the torque requirements specified in the torque chart.

IMPORTANT: Consult your backhoe Operator's Manual for complete assembly instructions for the basic backhoe.

Assembling Flow Divider Valve to Base Weldment -

1. Attach Flow Divider Valve (12) to Base Weldment (14) using three 5/16" NF x 2-1/2" bolts (3), and three Locknuts (4). See Figures 6,7,8.

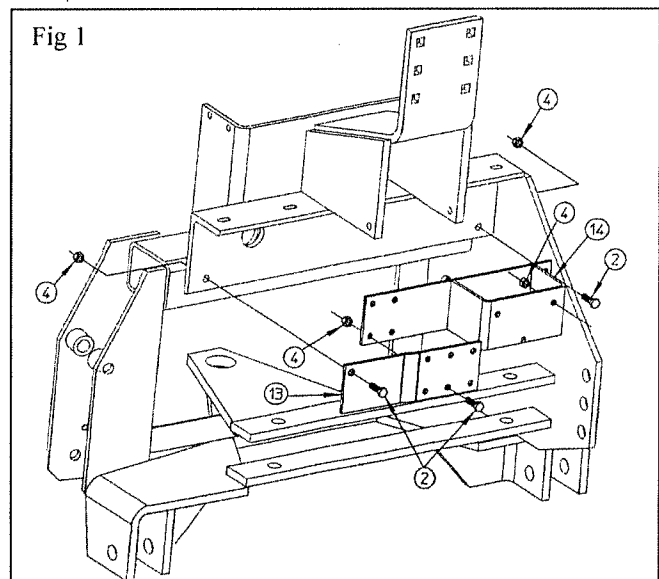
Assembling Flow Divider Valve Base Weldment to Extension Plate and Backhoe-

6600, 7600, and 9600 Backhoes -

1. Assemble Flow Divider Valve Base Weldment (14) to Extension Plate (13) using four 5/16" NF x 1" bolts (2), and four Locknuts (4). See Figure 1.

2. Install Flow Divider Valve assembly to basic backhoe using two 5/16" NF x 1" bolts (2), and two Locknuts (4). See Figure 1.

3. Torque all hardware that has been installed up to this point.



8600 Backhoes -

1. Assemble Flow Divider Valve Base Weldment (14) to Extension Plate (13) using four 5/16" NF x 1" bolts (2), and four Locknuts (4). See Figure 2.

NOTE: You will need to drill two 17/64" diameter holes in skid adapter frame. The two holes then need to be threaded using a 5/16-24 UNF tap. The two tapped holes will be used to secure the flow divider assembly to the backhoe. See Figure 3 for location dimensions.

2. Install Flow Divider Valve assembly to skid steer adapter weldment using two 5/16" NF x 5/8" bolts (1), and two Lockwashers (5). See Figure 2.

3. Torque all hardware that has been installed up to this point.

4. Proceed to Skid Steer Adapter Kit installation instructions to complete installation of adapter kit.

Installation of Hydraulic Fittings and Hoses to Flow Divider Valve -

1. Install the three 90 degree hydraulic fittings (7) to the Flow Divider Valve (12). See Figures 4 and 5.

2. Install the Tee hydraulic fitting (9) to the proper port on the Flow Divider Valve (12) according to the definition note below.

Skid Steers with an auxiliary flow of 15 GPM or less

Connect the Tee Hydraulic Fitting (9) to the "K3" port on the valve. See Figure 4.

Skid Steers with an auxiliary flow of 15 GPM or greater

Connect the Tee Hydraulic Fitting (9) to the "K2" port on the valve. See Figure 5.

IMPORTANT – The location of the Tee Hydraulic Fitting will insure that proper flow is provided to the backhoe for smooth operation. The flow into the valve from the skid steer is divided between the two outlet ports "K2" and "K3". The hydraulic flow is split, so that 60% is flowing from the "K2" port and 40% is flowing from the "K3" port.

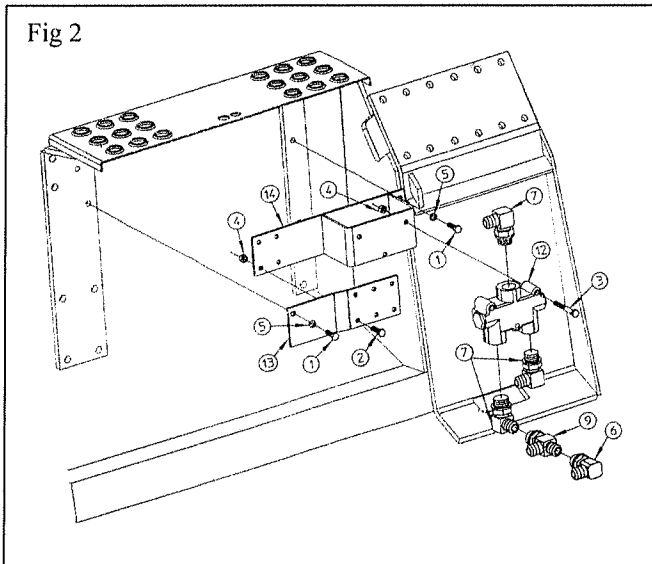


Fig 2

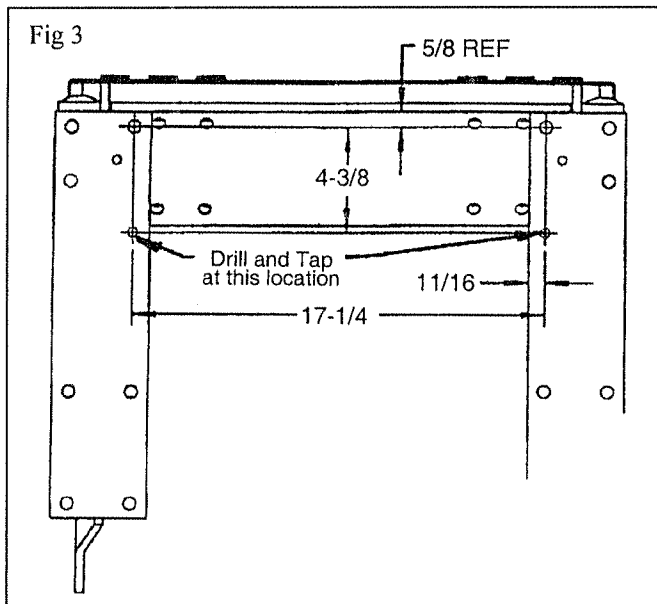


Fig 3

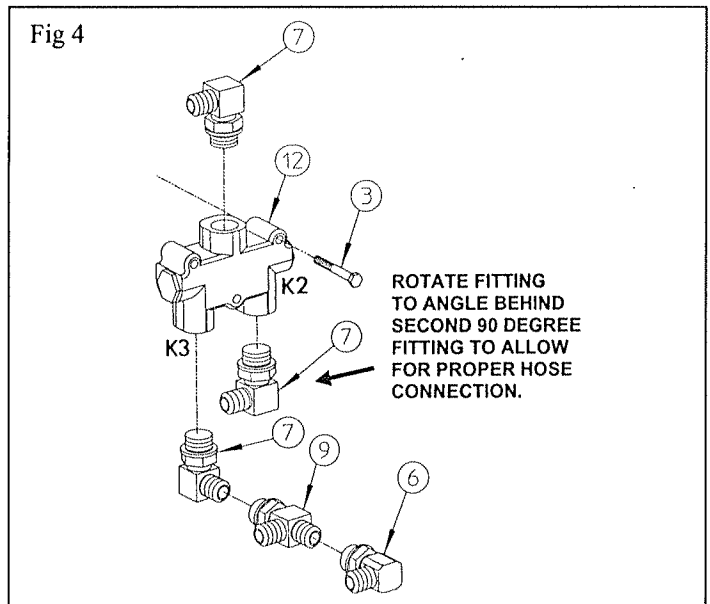
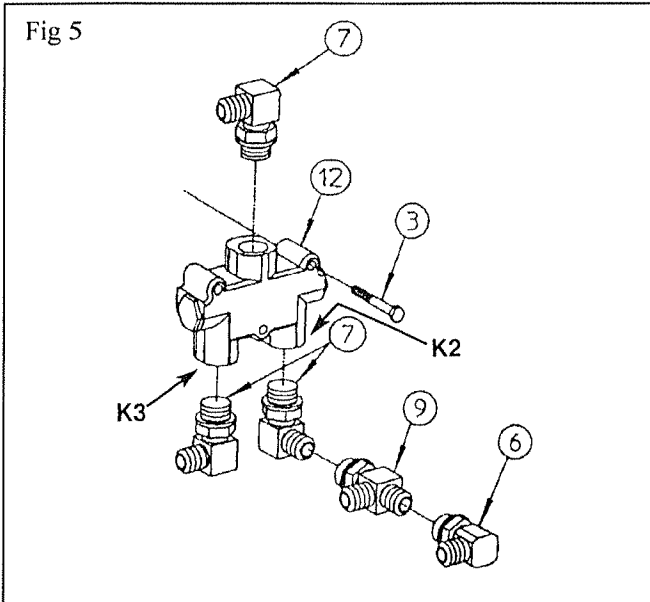


Fig 4

Fig 5



3. Install the 90-degree hydraulic fitting (6) to the Tee hydraulic fitting (9). See Figures 4 or 5.

4. Assemble the 20" long hydraulic hose (10) from the backhoe "Inlet Port" to the single 90-degree hydraulic fitting located under the Flow Divider Valve. See Figures 6, 7, or 8.

5. 6600 and 7600 Backhoes – Assemble the 90-degree Hydraulic Fitting (8) and 31" long hydraulic hose (11) from the backhoe "Outlet Port" to the Tee hydraulic fitting (9) located on the Flow Divider Valve. See Figure 6.

8600 and 9600 Backhoes – Assemble the 31" long hydraulic hose (11) from the backhoe "Outlet Port" to the Tee hydraulic fitting (9) located on the Flow Divider Valve. See Figures 7 or 8.

Installing Inlet and Outlet Hose From Skid Steer to Flow Divider Valve -

1. Connect Quick Coupler (not supplied) to **pressure** line hydraulic hose (not supplied) and connect it to the 90-degree fitting located on top of the flow divider valve.

2. Connect Quick Coupler (not supplied) to **return** line hydraulic hose (not supplied) and connect it to the branch of the Tee fitting located under the flow divider valve.

Connect Hydraulic Hoses

1. Remove dust caps from skid steer loader hydraulics.
2. Route backhoe hoses around lock rods.
3. Connect quick coupler hoses.

Testing Backhoe Hydraulic Hook-Up

1. Start the skid steer loader.
2. Lock the park brake and engage auxiliary boom hydraulic outlets so there is oil flow to the backhoe. **NOTE!** Consult your Skid Steer Operator's Manual for proper operation.
3. Exit the skid steer.
4. Sitting in the backhoe operator's seat raise and lower the stabilizer legs and extend and retract the dipperstick.
5. Exit backhoe, disengage auxiliary boom hydraulic outlets, stop engine, and check hydraulic fluid level.

Figure 6

MODEL 6600 AND 7600 BACKHOES

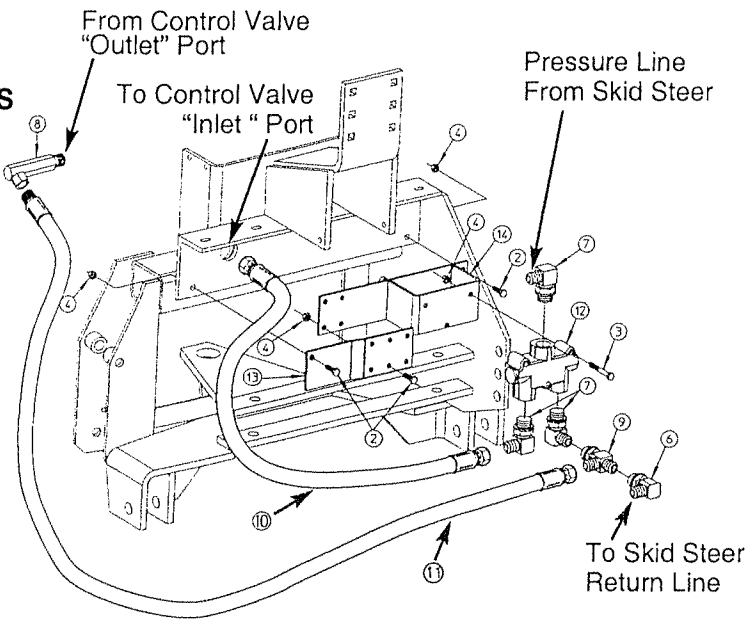


Figure 7

MODEL 8600 BACKHOE

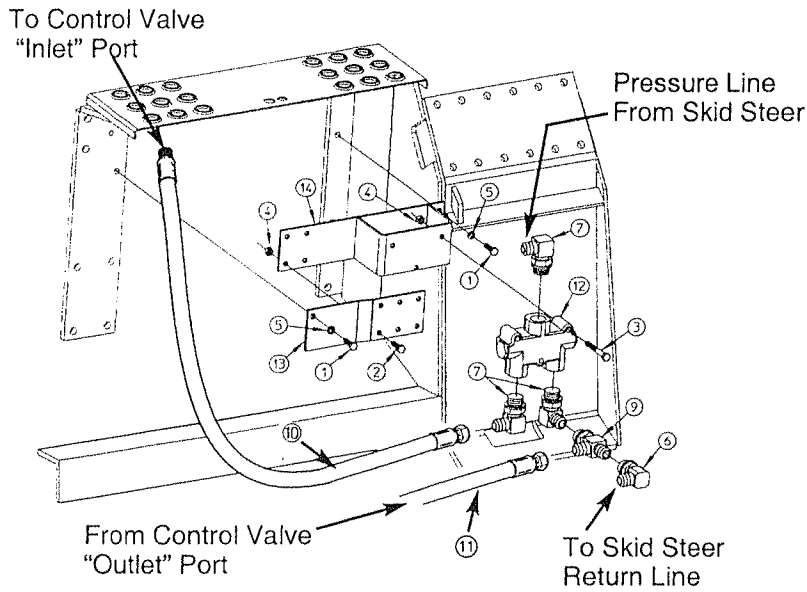
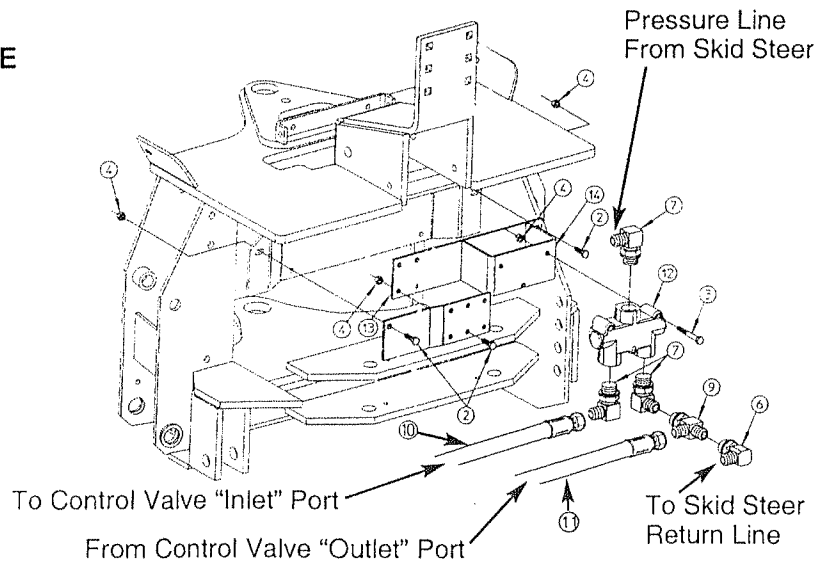





Figure 8

MODEL 9600 BACKHOE



00W802 PARTS LIST

| REF. NO. | QTY. | DESCRIPTION | PART NO. |
|----------|------|----------------------------------|----------|
| 1 | 2 | BOLT HEX, SAE5 ZP NF 31 X 62 | 006779 |
| 2 | 6 | BOLT HEX, SAE5 ZP NF 31 X 100 | 006795 |
| 3 | 3 | BOLT HEX, ZP NF 31 X 250 | 006817 |
| 4 | 9 | NUT LOCK, 22TWA51624 MF ZP NF 31 | 007437 |
| 5 | 2 | WASHER LOCK MW ZP 31 | 008071 |
| 6 | 1 | ADAPTER FLARE, TF5506-10 HFI | 011068 |
| 7 | 3 | ADAPTER FLARE, TF5515-10-12 HFI | 011069 |
| 8 | 1 | ADAPTER UNION, 9405-8-8L8 HFI | 011105 |
| 9 | 1 | NUT RUN TEE S 063T 10 10 PARKER | 011240 |
| 10 | 1 | HOSE, 590 0106 081008 20 PARKER | 017509 |
| 11 | 1 | HOSE, 590 0106 081008 31 PARKER | 017525 |
| 12 | 1 | FLOW DIVIDER, PD-12-60 GRESEN | 023087 |
| 13 | 1 | EXTENSION PLATE | 863769 |
| 14 | 1 | BASE WELDMENT | 863770 |

| Common bolts and nuts Size | TORQUE VALUES | | |
|-------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| | Grade 2  | Grade 5  | Grade 8  |
| 1/4-20 NC | 70 in. lbs. | 115 in. lbs. | 165 in. lbs. |
| 1/4-28 NF | 85 in. lbs. | 140 in. lbs. | 200 in. lbs. |
| 5/16-18 NC | 150 in. lbs. | 250 in. lbs. | 350 in. lbs. |
| 5/16-24 NF | 165 in. lbs. | 270 in. lbs. | 30 ft. lbs. |
| 3/8-16 NC | 260 in. lbs. | 35 ft. lbs. | 50 ft. lbs. |
| 3/8-24 NF | 300 in. lbs. | 40 ft. lbs. | 60 ft. lbs. |
| 7/16-14 NC | 35 ft. lbs. | 55 ft. lbs. | 80 ft. lbs. |
| 7/16-20 NF | 45 ft. lbs. | 75 ft. lbs. | 105 ft. lbs. |
| 1/2-13 NC | 50 ft. lbs. | 80 ft. lbs. | 115 ft. lbs. |
| 1/2-20 NF | 70 ft. lbs. | 105 ft. lbs. | 165 ft. lbs. |
| 9/16-12 NC | 75 ft. lbs. | 125 ft. lbs. | 175 ft. lbs. |
| 9/16-18 NF | 100 ft. lbs. | 165 ft. lbs. | 230 ft. lbs. |
| 5/8-11 NC | 110 ft. lbs. | 180 ft. lbs. | 260 ft. lbs. |
| 5/8-18NF | 140 ft. lbs. | 230 ft. lbs. | 330 ft. lbs. |
| 3/4-10 NC | 150 ft. lbs. | 245 ft. lbs. | 350 ft. lbs. |
| 3/4-16 NF | 200 ft. lbs. | 325 ft. lbs. | 470 ft. lbs. |

Tightening Torque Plus/Minus 20%

NOTE - See Skid Steer Operator's Manual or your dealer for tightening of metric bolts.