



INSTRUCTION MANUAL

B7333 Single Section Complete Valve and Hose Kit For B-Series Tractors without Rear Hydraulic Outlet



WARNING

To avoid death or serious personal injury:

- Read and thoroughly understand tractor and implement or attachment operator's manuals before installing or operating this valve.
- Escaping hydraulic fluid under pressure can have sufficient force to penetrate skin, causing serious personal injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to system, be sure all connections are tight and that lines, tubes, and hoses are not damaged. Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than your hands, to search for suspected leaks. If injured by escaping fluid, see a doctor at once. Serious infection or allergic reaction will develop if proper medical treatment is not administered immediately.

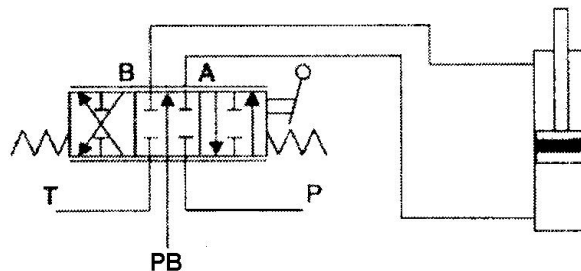
Note: Please keep this instruction manual with the tractor operator's manual for future reference.

Applications

- ☐ Tractor – B7300, B7400, B7500 All Models
- ☐ Loader – LA271, LA272, LA301, LA302
- ☐ Other Items Required
 1. Tractor applications with approved Kubota loaders require no additional items.
 2. Tractor applications without a loader
 - Block, Hydraulic – p/n 75536-68112 (qty. 1)
 - O-Ring – p/n 75536-68132 (qty. 2)

Valve Section Usage Recommendation and Schematic

- ☐ The B7333 3-Position 4-Way Normally Closed Valve Section should be used for control of double acting cylinders or reversible hydraulic motors where floating a cylinder, detented continuous flow, or motor free-wheeling is not required. Both work ports are blocked in the neutral position. Optional valve sections are available for other applications.



Specifications

- Hydraulic Capacity
 1. B7300, B7400, B7500 – 3.9gpm @ 1920-2020psi (14.6l/min @ 135-140kgf/cm²)
- Quick Coupler Type – 3/8 PARKER 6600 Series Coupler

Assembly

- Tractors equipped with loader
 1. Install loader as described in Loader Operator's Manual. However, refer back to this instruction sheet when making hydraulic hose connections.
- Control Valve Location
 1. Before starting assembly, a determination must be made if the control valve will be mounted to the inside or outside of the ROPS Tube (Figures 1-2). Only a single section valve can be mounted to the inside of the ROPS Tube. If additional optional valve sections are added, then the control valve must be mounted to the outside of the ROPS Tube. Applications with foldable ROPS can only have the Control Valve mounted to the outside of the ROPS Tube.
- Tractors equipped with secondary hazard lights (Figure 3)
 1. If the Control Valve will be mounted to the outside of the ROPS tube, the secondary hazard light stay needs to be reversed so that light is forward of ROPS (Figure 4). Note: Torque ROPS bolts per ROPS installation instructions.
- Tractors equipped with only primary hazard lights
 1. Hazard light should be installed on opposite side of ROPS tube from control valve assembly (Figures 1-2).

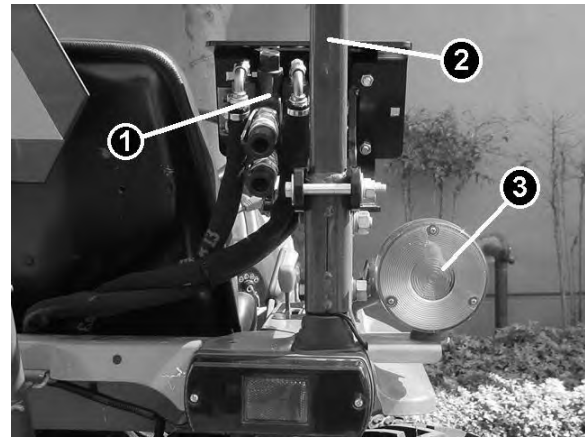


Figure 1. (Inside)
(1) Control Valve
(2) ROPS Tube
(3) Primary Hazard Light

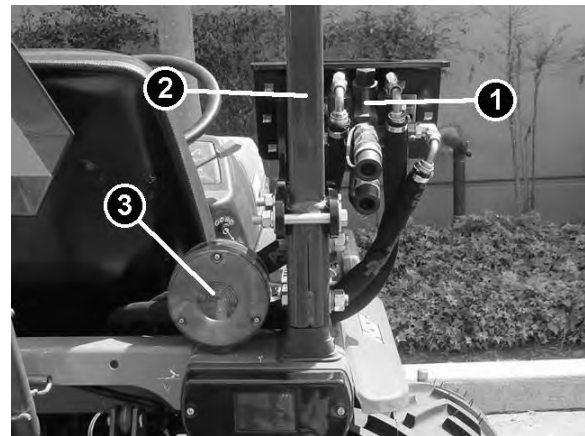


Figure 2. (Outside)
(1) Control Valve
(2) ROPS Tube
(3) Primary Hazard Light

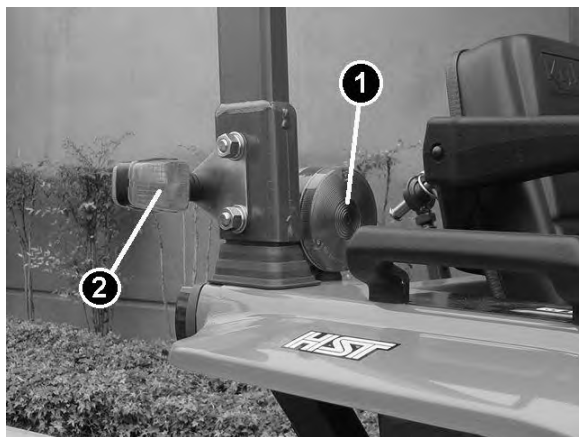


Figure 3.

- (1) Primary Hazard Light
- (2) Secondary Hazard Light

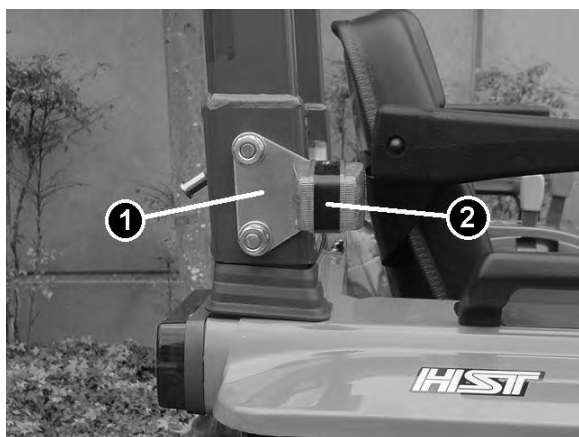


Figure 4.

- (1) Secondary Hazard Light Stay
- (2) Secondary Hazard Light

□ Control Valve Assembly

1. Install Extension Plate on ROPS right side tube using Clamping Plate, two 7/16 x 4 Hex Bolts, four 7/16 Flat Washers, two 7/16 Lock Washers, and two 7/16 Hex Nuts (Figures 5-6). Bottom edge of extension plate should be parallel to fender and adjacent to flat washer of upper ROPS bolt. Utilize slotted hole to make sure bolts are tight against ROPS tube to minimize bending. Torque bolts to 30 ft-lbs.
2. Attach Backing Plate to Extension Plate using two 3/8 x 1 Carriage Bolts, and two 3/8 Lock Nuts (Figures 5-6). Torque bolts to 20~23 ft-lbs.

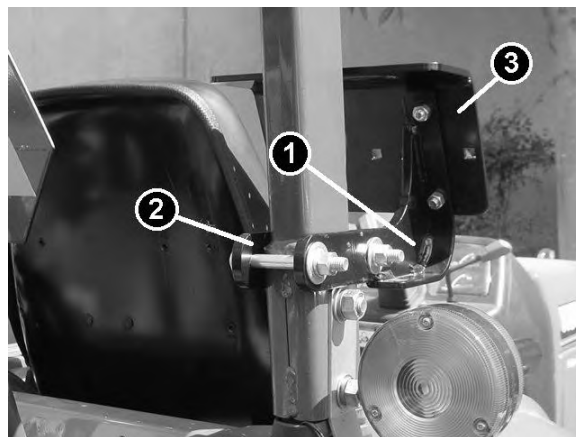


Figure 5. (Inside)

- (1) Extension Plate
- (2) Clamping Plate
- (3) Backing Plate

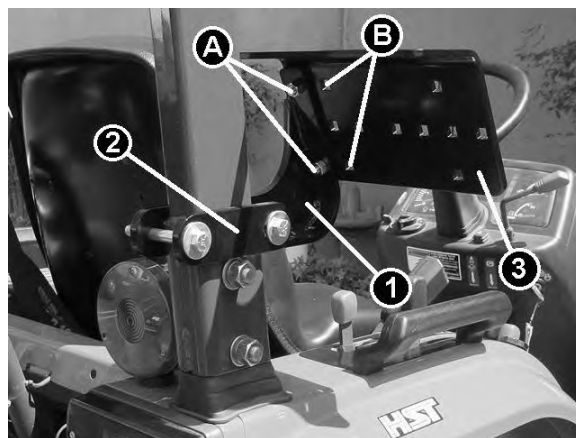


Figure 6. (Outside)

- (1) Extension Plate
 - (2) Clamping Plate
 - (3) Backing Plate
 - (A) Attach here for three section valve
 - (B) Attach here for one or two section valve
3. If additional optional valve sections will be used, they should be installed at this time. Refer to Instructions included in required Banking Kit.
 4. Install Male SAE-6 O-Ring x 3/8 Male NPTF Adapter into both work ports of each valve section (Figure 7).
 5. If additional optional valve sections are used, then one section (center section when three are used) will require installation of the 3/8 Male NPTF x 3/8 Female NPTF Adapter (included in Banking Kit) at both

work ports using Teflon Tape (Figure 7).

6. Install 3/8 Dust Plug/Cap and 3/8 Female Quick Coupler at both work ports of each valve section using Teflon Tape (Figure 7).

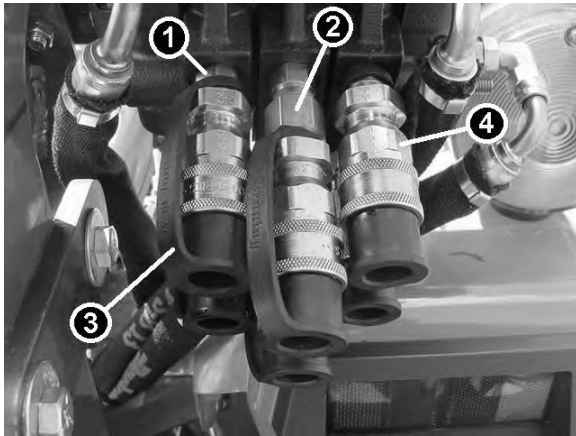


Figure 7.

- (1) M-SAE-6 O-Ring x 3/8 M-NPTF Adapter
 - (2) 3/8 M-NPTF x 3/8 F-NPTF Adapter
 - (3) 3/8 Dust Plug/Cap
 - (4) 3/8 Quick Coupler
7. Install handle on valve as shown (Figures 8-9).
 8. Attach Valve Body to Backing Plate using two 3/8 x 1 Carriage Bolts, and two 3/8 Lock Nuts (Figures 8-9). Torque bolts to 20~23 ft-lbs.

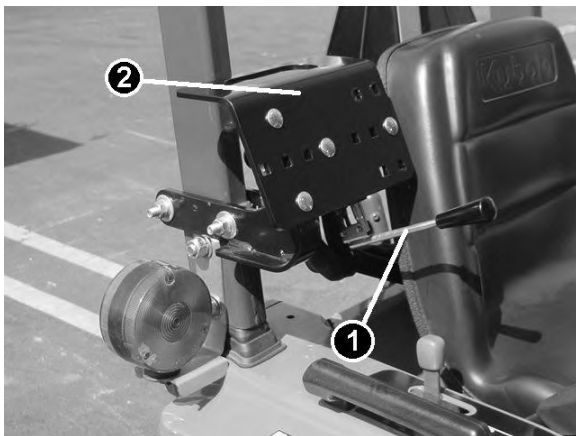


Figure 8. (Inside)

- (1) Handle
- (2) Backing Plate

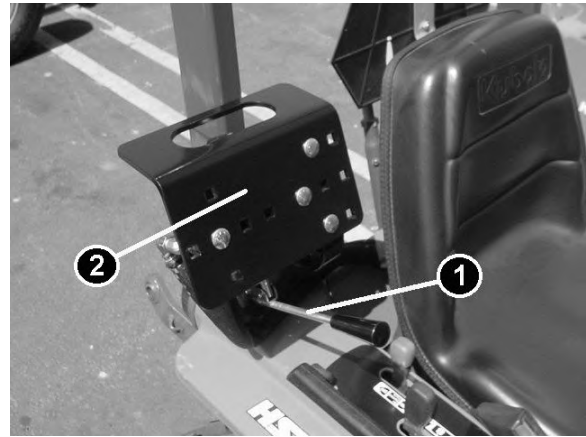


Figure 9. (Outside)

- (1) Handle
- (2) Backing Plate

☐ Hose Installation

1. Remove cover from tractor mid hydraulic outlet (Figure 10).
2. Install the Hydraulic Block (p/n 75536-68112) using two O-Rings (p/n 75536-68132) and reuse bolts removed with cover. Note: Parts followed by part number are included with loader. Torque bolts to 17 ft-lbs. (Figure 10).

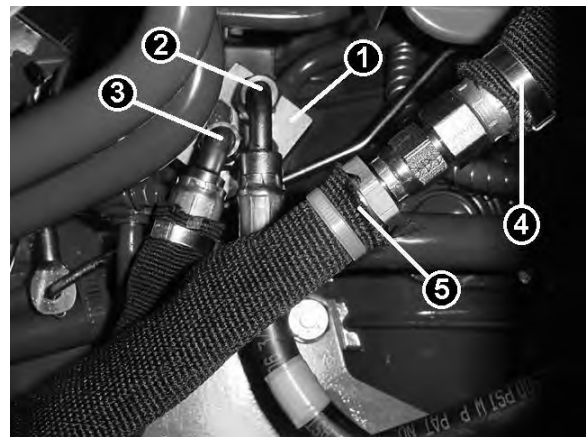


Figure 10.

- (1) Mid Hydraulic Block
- (2) "Pump" Port
- (3) "Power Beyond" Port
- (4) 20" "Power Beyond" Hose from Loader
- (5) 80" Hose to Rear Remote "In" Port

3. Install adapters to tractor Hydraulic Block.
 - ◆ Loader applications – Install two 1/4 Male NPTF x 9/16 Male JIC Adapters into each port of Hydraulic Block using Teflon Tape (Figure 10). Note: Two adapters included with loader.
 - ◆ Applications without loader – Install 1/4 Male NPTF x 9/16 Male JIC Extra Long Elbow into front “Pump” port angled vertically downwards and 1/4 Male NPTF x 9/16 Male JIC Adapter into rear “Power Beyond” port using Teflon Tape (Figure 10).
4. Connect “Pump” port hose.
 - ◆ Loader Applications – Connect loader hose from tractor “Pump” port to loader control valve “In” port as described in Loader Operator’s Manual.
 - ◆ Applications without loader - Connect the 80” hose from tractor “Pump” port (Figure 10) to rear remote “In” port (Figure 11).
5. Connect “Power Beyond” port hose(s).
 - ◆ Loader Applications – Discard loader “Power Beyond” Hose. Connect 20” hose to loader control valve “Power Beyond” port and route down to tractor hydraulic block, but do not connect. Connect 80” hose to rear remote “In” port (Figure 11) and route down to tractor hydraulic block. Connect these two hoses together. Connect the 82” hose from rear remote “Power Beyond” port (Figure 11) to tractor “Power Beyond” port (Figure 10).
 - ◆ Applications without Loader - Connect the 82” hose from rear remote “Power Beyond” port (Figure 11) to tractor “Power Beyond” port (Figure 10).

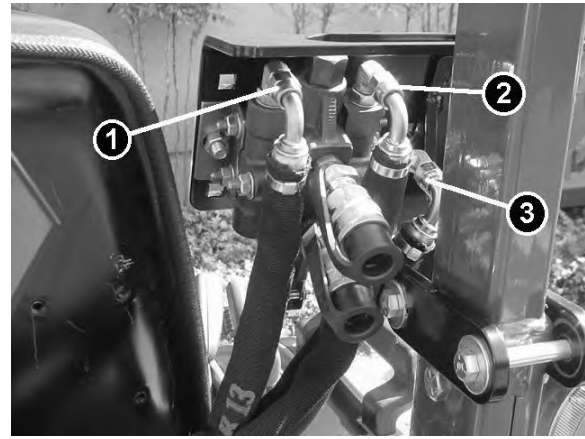


Figure 11.

- (1) “In” Port
- (2) “Out” Port
- (3) “Power Beyond” Port

6. Remove the plug from “Return” port on side of transmission case (Figure 12).
7. Install 3/8 Male BSPT x 3/4 M-JIC Adapter into “Return” port using Teflon Tape (Figure 12).
8. Install 3/4 Female SWV-JIC x 3/4 Male JIC x 3/4 Male JIC Run Tee to “Return” port adapter as shown (Figure 12).

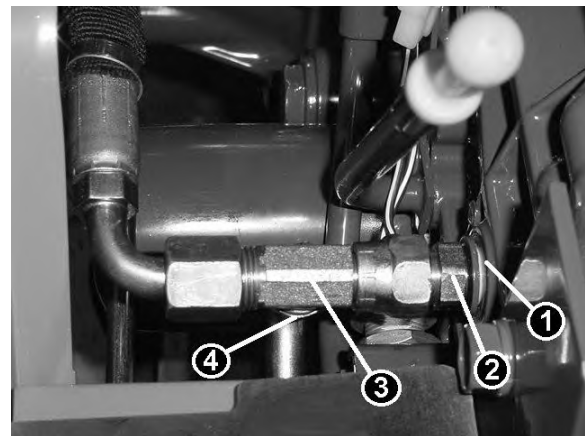


Figure 12.

- (1) “Return” Port
- (2) 3/8 M-BSPT x 3/4 M-JIC Adapter
- (3) 3/4 FE-SWV-JIC x 3/4 M-JIC x 3/4 M-JIC Run Tee
- (4) Loader “Out” Hose (3/4 JIC Cap installed here for non-loader applications)

9. Connect 50" hose from rear remote "Out" port (Figure 11) to "Return" port Run Tee (Figure 12).
- ◆ Loader Applications - Connect loader hose from loader control valve "Out" port to remaining Run Tee port (Figure 12).
- ◆ Applications without loader – Install 3/4 JIC Cap on remaining Run Tee port (Figure 12).
10. Using two cable ties provided, band hoses together (Figure 13).

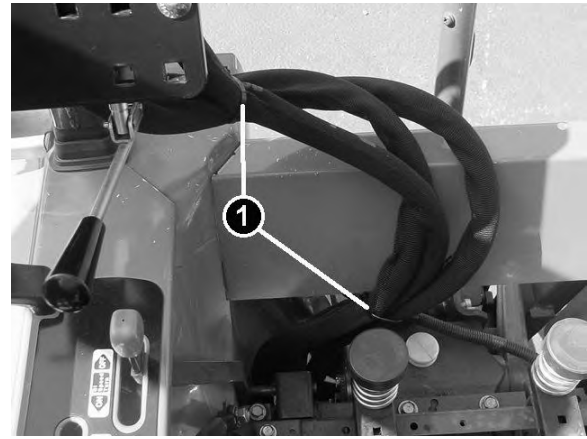
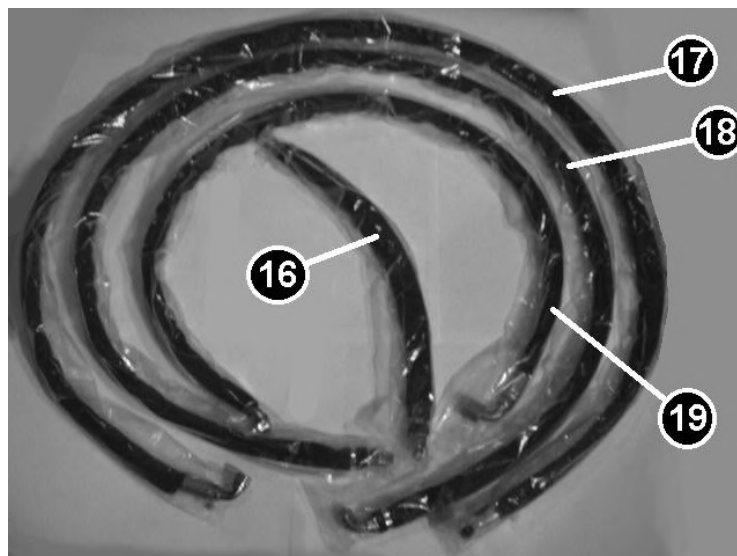
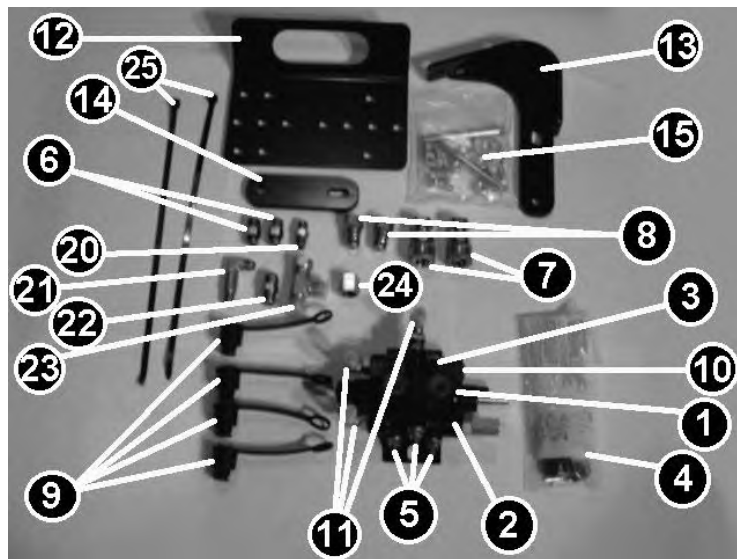


Figure 13.
(1) Cable Tie

Parts List

- B7333 Single Section Complete Valve and Hose Kit



Item #	Part #	Description	Quantity
1	70000-02619	Single 3-Position 4-Way Normally Closed Valve Section (includes Stacking Shims and O-Rings)	1
N/A	70000-02400	Stacking Shim (3-pack)	2
N/A	70000-02401	O-Ring (5-pack)	2
2	70000-02418	Inlet Section with Load Drop Checks and Relief Valve (includes Check Balls and Check Ball Retainers)	1
N/A	70000-02402	Check Ball (4-pack, only 2 required per valve)	1
N/A	70000-02403	Check Ball Retainer (2-pack)	1
3	70000-02404	Outlet Section with Power Beyond	1
4	70000-02623	Right Angle Handle Kit	1
5	70000-02405	Single Spool Banking Kit (includes 3 tie rods, 6 hex nuts, 6 washers, and 2 foot brackets)	1
6	70000-02617	Adapter, M-SAE-6 O-Ring x 3/8 M-NPTF	2
7	75540-66320	Quick Coupler, PARKER 6600 3/8	2
8	75540-66220	Nipple, PARKER 6600 3/8	2
9	75540-66330	Dust Plug/Cap, PARKER 6600 3/8	4
10	70000-02406	Plug, SAE-6 O-Ring	1
11	70050-93378	Elbow Adapter, M-SAE-6 O-Ring x 9/16 M-JIC	3
12	70000-02627	Backing Plate	1
13	70000-02628	Extension Plate	1
14	70000-02629	Clamping Plate	1
15	Obtain locally	Bolt, Hex 7/16" x 4" NC Plated	2
15	Obtain locally	Washer, Flat 7/16" Plated	4
15	Obtain locally	Washer, Lock 7/16" Plated	2
15	Obtain locally	Nut, Hex 7/16" Plated	2
15	Obtain locally	Bolt, Carriage 3/8" x 1" NC Plated	4
15	Obtain locally	Nut, Lock 3/8" NC Plated	4
16	70000-02419	Hose, 451TC-6, 9/16 FE-SWV-JIC x 9/16 M-JIC x 20" with "PS" Sleeve	1
17	70000-02420	Hose, 451TC-6, 9/16 FE-SWV-90 short drop-JIC x 9/16 FE-SWV-JIC x 80" with "PS" Sleeve	1
18	70000-02421	Hose, 451TC-6, 9/16 FE-SWV-90 short drop-JIC x 9/16 FE-SWV-90 short drop-JIC x 82" x 90° with "PS" Sleeve	1
19	70000-02422	Hose, 451TC-6, 9/16 FE-SWV-90 short drop-JIC x 3/4 FE- SWV-90 short drop-JIC x 50" x 90° with "PS" Sleeve	1
20	75536-66810	Adapter, 1/4 M-NPTF x 9/16 M-JIC	1
21	70000-02423	Elbow, Extra Long 1/4 M-NPTF x 9/16 M-JIC	1
22	75582-66810	Adapter, 3/8 M-BSPT x 3/4 M-JIC	1
23	70000-02438	Run Tee, 3/4 FE-SWV-JIC x 3/4 M-JIC x 3/4 M-JIC	1
24	70000-02411	Cap, 3/4 JIC	1
25	70000-02413	1/4" x 11.5" Cable Tie	2
26	70000-02431	B7333 Instruction Manual	1