

PARTS & SERVICE NEWS

REF NO.	AA02244
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This Parts and Service News supersedes the previous issue of AA02056 dated February 8, 2002. Parts and Service News AA02056 should be discarded.

- SUBJECT:** HYDRAULIC LEAKS IN THE HYDRAULIC COMPONENTS CABINET
- PURPOSE:** To release to the field Hoist Pilot Manifold Kit (XK0141) to eliminate potential leaks in the hoist pilot system piping located in the hydraulic components cabinet.
- APPLICATION:** KOMATSU Electric Drive Dump Trucks:
 730E: 32530 - 32845; A30079 & UP
 830E: 31320 - 32825; A30544 & UP
 930E: 32604 - 32816; A30012, A30019, A30025 - A300155
- FAILURE CODE:** 4480HA
- DESCRIPTION:** Release Kit (XK0141) to eliminate steel tubes in the hoist pilot system piping located in the hydraulic components cabinet.

Hydraulic leaks have occurred in the steel tubes (near the tube fitting) that are used in the hoist pilot circuit in the hydraulic components cabinet due to vibration or improper fit up. To improve truck availability, install Hoist Pilot Manifold Kit (XK0141). This kit replaces the solenoid valve and check valve with one hoist pilot manifold (1, Figure 1) and the eight steel tubes are replaced with three hoses.

Table 1 shows the contents of kit (XK0141).

Item Number	Part Number	Quantity	Description
1	WB0567	1	Fitting
2, 3, 4	HA6377	3	Hose
5	WB0508	3	Fitting, 90 degree
6	PC1372	1	Hoist Pilot Manifold
7	WB0584	4	Fitting, Straight
N.S.	H8136	2	Capscrew, 0.250-20 X 0.5 inches
N.S.	VN9733	2	Flatwasher, 0.250 inches
	EK2170	1	Drawing, Pilot Manifold Installation

NOTE: N.S. - Not Shown

Any time one of the valves or tubing components listed below has failed or is requested for purchase, then the Hoist Pilot Manifold Kit (XK0141) will need to be installed. All parts in kit (XK0141) are available separately.

VALVES:

PB7242, solenoid valve

PB8367, check valve

TUBING:

EB4164	EC6227
EB4166	EC6231
EG0608	EK0677
TZ5040	EK0678
TZ5042	EK0679
EC3342	EK0680
EC3343	EK0681



Relieve pressure before disconnecting hydraulic lines. Tighten all connections securely before applying pressure.

Hydraulic fluid escaping under pressure can have sufficient force to enter a person's body by penetrating the skin and cause serious injury and possibly death if proper medical treatment by a physician familiar with this type of injury is not received immediately.

1. Insure engine and key switch have been in the "OFF" position for at least 90 seconds to allow accumulator to bleed down. Be sure park brake is applied.
 2. Place hoist control lever in the body down position. Make sure the body is at rest on the frame in the **full down** position. Release the hoist control lever to return the hoist valve spool to the neutral position.
 3. Remove all ten items referenced in Figure 1. Mark and disconnect two hoses at locations (A & B, Figure 1). Cap the end of the hoses to prevent contaminants from entering the hoses.
 4. Drill four holes in bottom of hydraulic components cabinet as shown in Figure 3, or on installation drawing EK2170.
 5. Install four straight fittings (7, Figure 2) on the top and bottom sides of hoist pilot manifold (6). Install one 90 degree fitting (5) in the tank port on the side of hoist pilot manifold (6). Install hoist pilot manifold into hydraulic components cabinet with flatwashers and capscrews supplied in the kit.
 6. Attach the wire that was connected to solenoid valve (4, Figure 1) to the solenoid on hoist pilot manifold.
 7. Install two 90 degree fittings (5) on hoist pilot valve. Install hoses (2, 3 & 4) exactly as shown in Figure 2.
 8. Connect hose (A, Figure 2) to new Location (A, Figure 3), and hose (B, Figure 2) to new Location (B, Figure 3) to the fittings on the hoist pilot manifold. The hoses must be in the same orientation as they were removed in step 3.
 9. Remove the two unused bulkhead fittings from bottom of hydraulic components cabinet. Plug holes with capscrews, nuts and flat washers.
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10. Before raising dump body, be certain there is adequate clearance overhead to fully raise the body without hitting any structures or power lines. Start the engine and check for proper hoist operation. Observe for leaks.

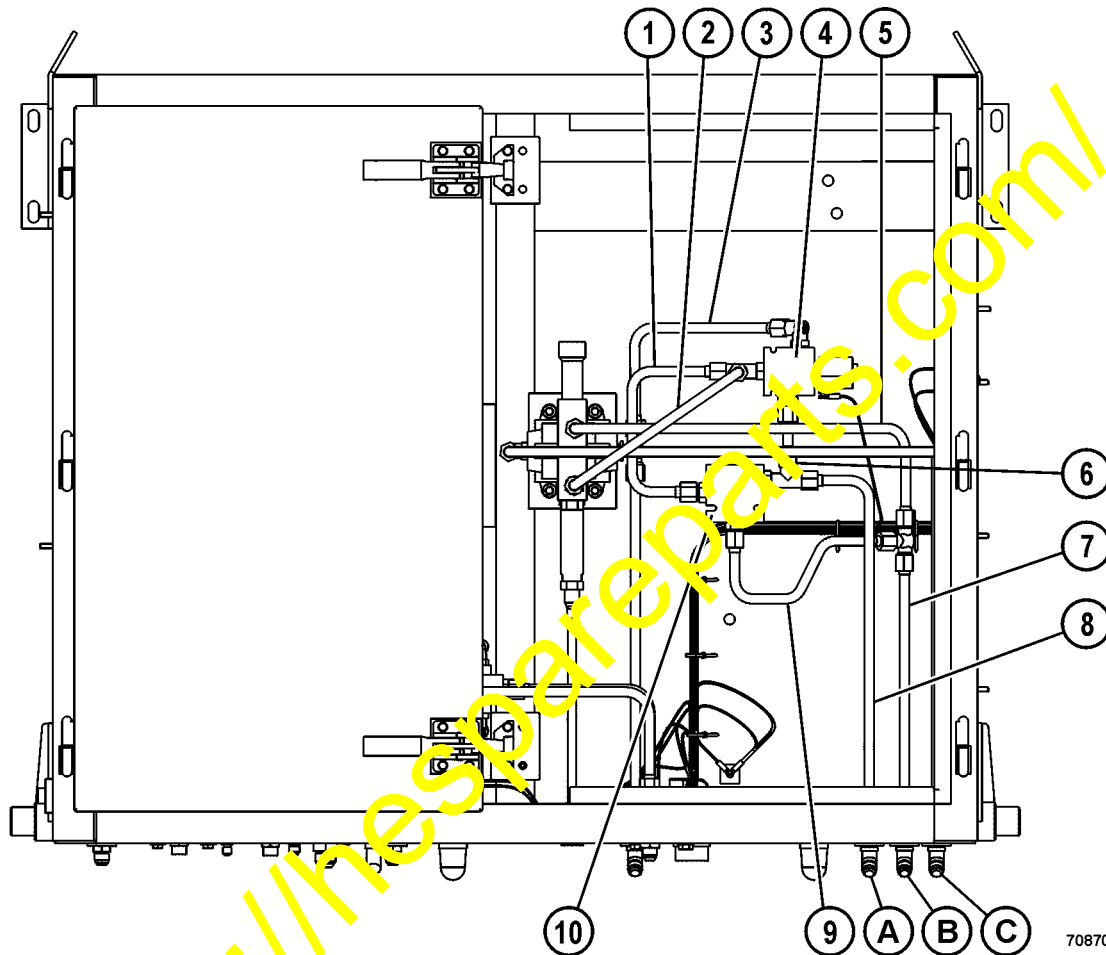


FIGURE 1. TYPICAL HYDRAULIC COMPONENTS CABINET WITH STEEL TUBES

- | | | |
|-------------------|-----------------|----------------------------|
| 1. Steel Tube | 6. Steel Tube | A. Connection (Power Down) |
| 2. Steel Tube | 7. Steel Tube | B. Connection (Power Up) |
| 3. Steel Tube | 8. Steel Tube | C. Connection (Supply) |
| 4. Solenoid Valve | 9. Steel Tube | |
| 5. Steel Tube | 10. Check Valve | |

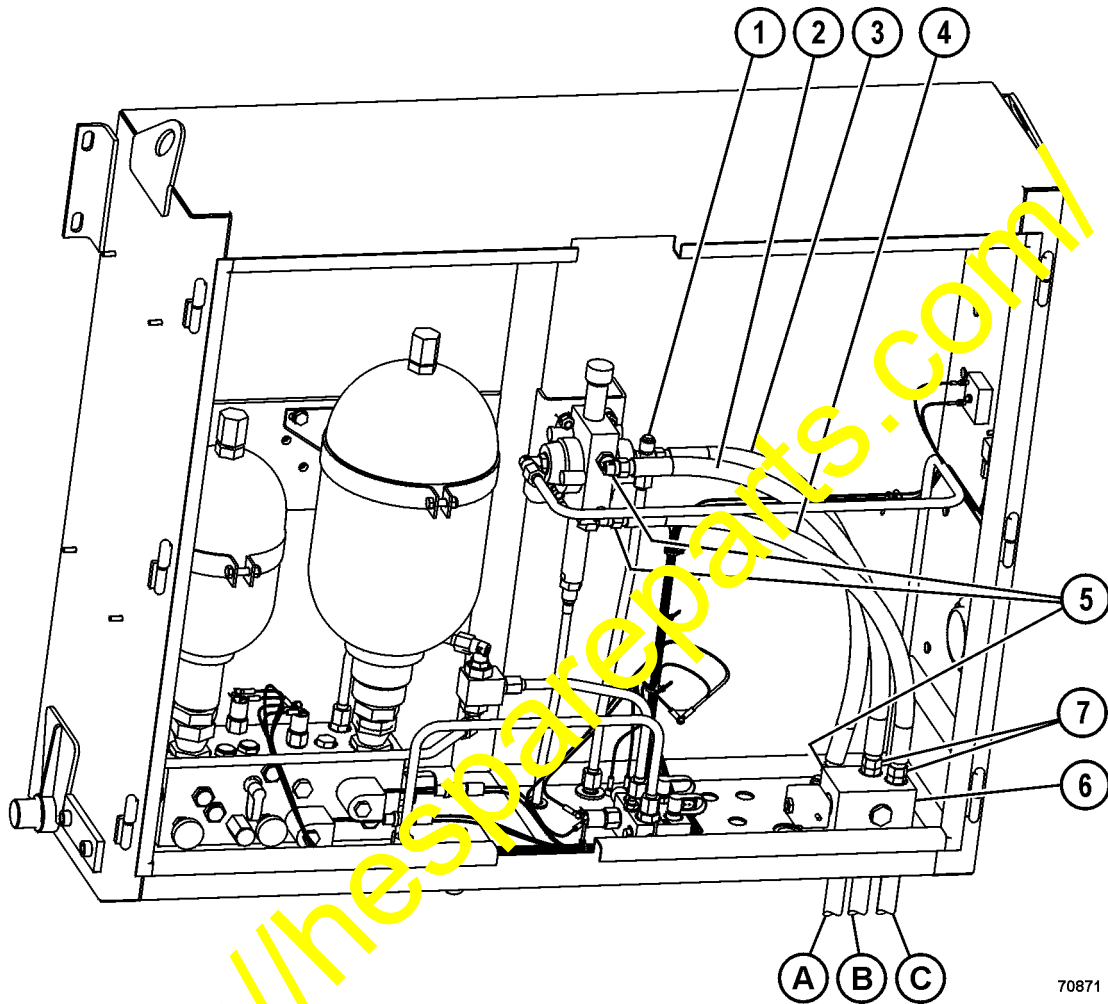


FIGURE 2. TYPICAL HYDRAULIC COMPONENTS CABINET WITH KIT (XK0141) INSTALLED

- | | | |
|----------------------|-------------------------------------|----------------------|
| 1. Fitting - Tee | 5. Fitting - 90 degree | A. Hose (Power Down) |
| 2. Hose (Power Down) | 6. Hoist Pilot Manifold | B. Hose (Power Up) |
| 3. Hose (Tank) | 7. Fitting - Straight (2 not shown) | C. Hose (Supply) |
| 4. Hose (Power Up) | | |

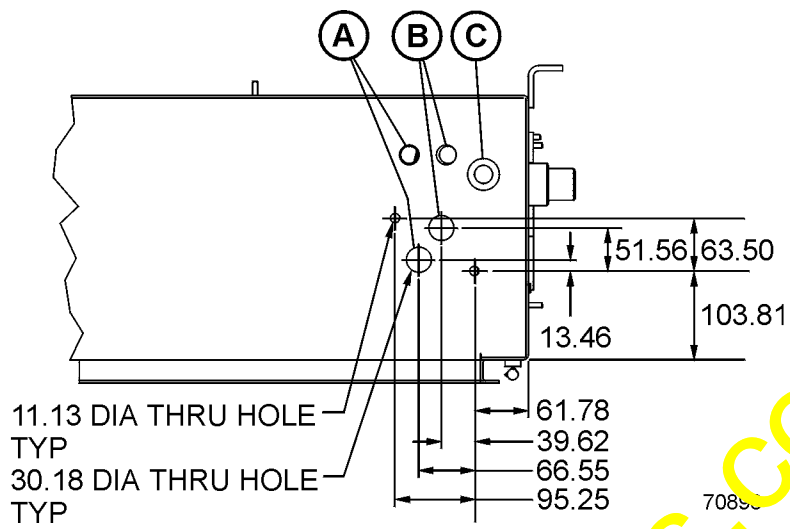


FIGURE 3. NEW HOLE LOCATION

- A. Hole (Power Down Location)
- B. Hole (Power Up Location)

- C. Tube (Tank Return)

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