PARTS & SERVICE NEWS

REF NO.	AA02078
DATE	March 14, 2002

SUBJECT: CHANGING HYDRAULIC TANK POSITION TO ALLOW MESHED CHAINS TO BE FASTENED OVER LARGE DIAMETER TIRE

PURPOSE: To introduce modification procedures to change the position of the hydraulic tank to install large diameter tires (41.25/70-39) and tire chains

APPLICATION: WA700-3 Wheel Loaders, S/N 50001 and up
WA700-3L Wheel Loaders, S/N A50001 and up

FAILURE CODE: 600068

DESCRIPTION:

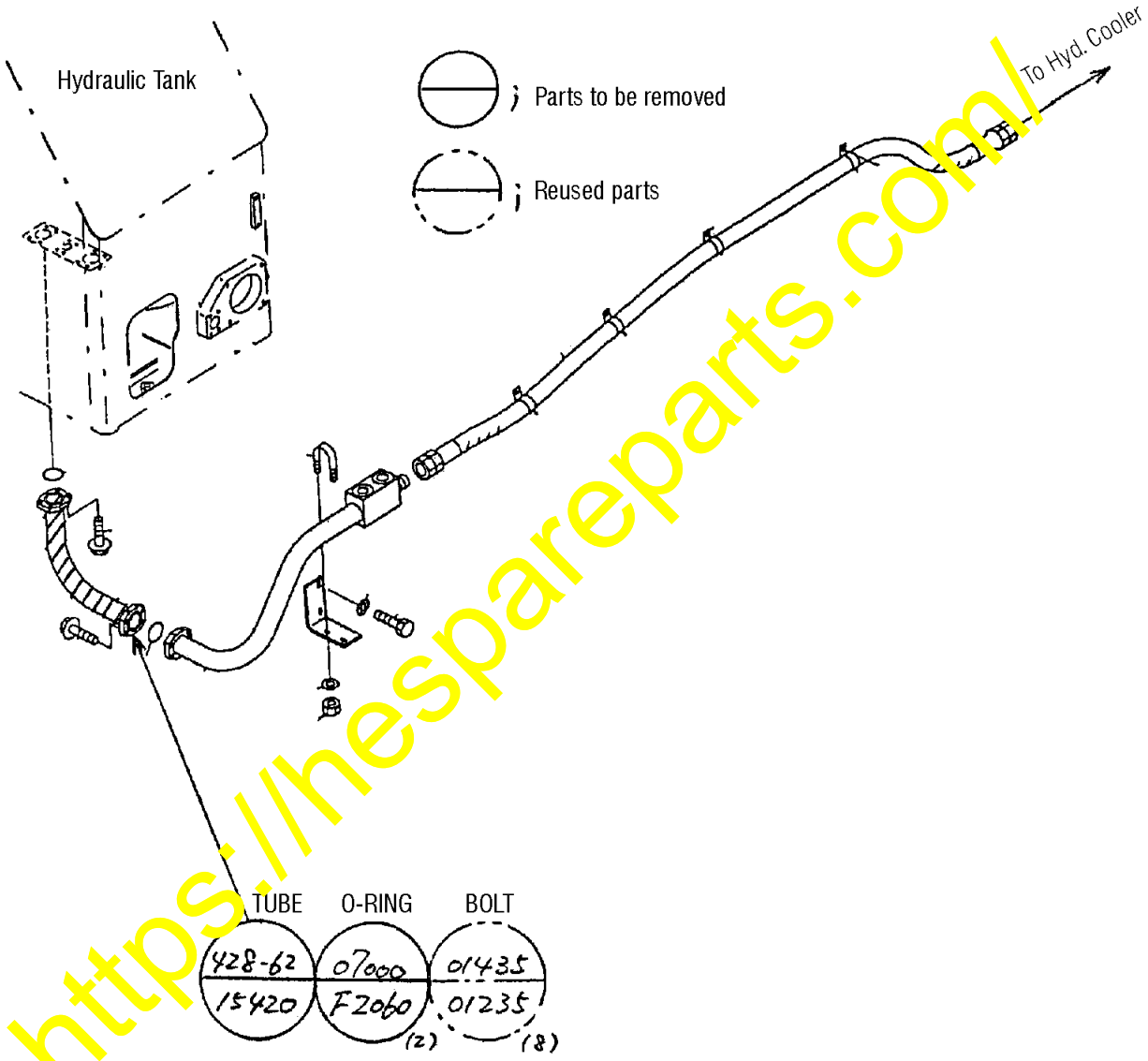
When large diameter tires (41.25/70-39) are installed and meshed tire chains are fastened over them, clearance toward the hydraulic tank becomes too narrow causing possible interference. In such a case, make the modifications to move the hydraulic tank forward following the procedures outlined in this **PARTS & SERVICE NEWS.**

2. List of parts

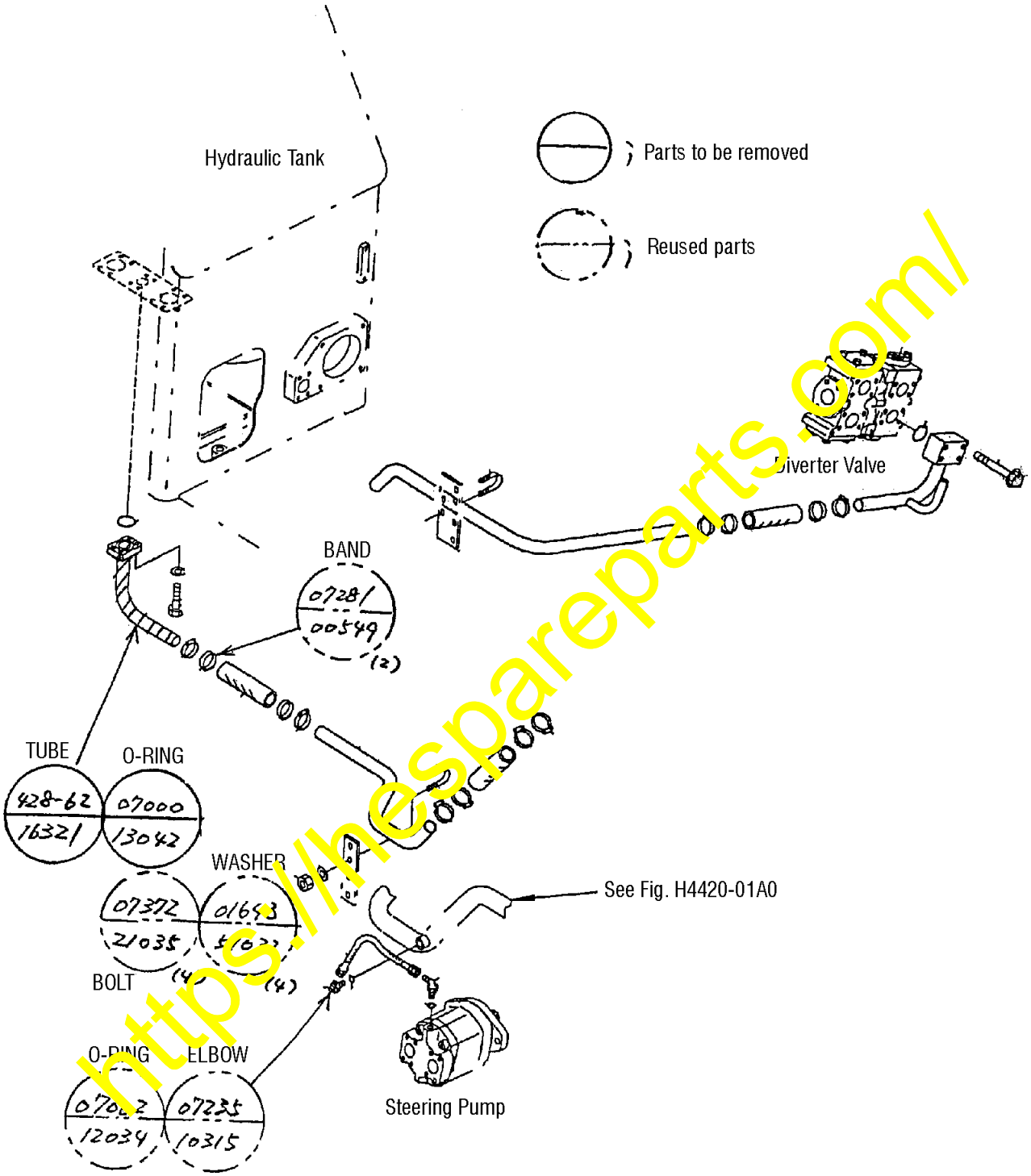
Part No.	Part Name	Q'ty	Remarks
428-62-23210 (428-62-13791)	Tube (Tube)	1 (1)	
428-62-24110 (428-62-14122)	Tube (Tube)	1 (1)	
428-62-25110 (428-62-15420)	Tube (Tube)	1 (1)	
428-62-26120 (428-62-16120)	Tube (Tube)	1 (1)	
428-62-26130 (428-62-16321)	Tube (Tube)	1 (1)	
428-62-26140 (428-62-16170)	Plate (Plate)	1 (1)	
428-54-24310 (428-54-24171)	Plate (Plate)	1 (1)	
428-60-25120 (428-60-15251)	Plate (Plate)	1 (1)	
428-46-22F90	Bracket	1	Part necessary for reworking
428-46-21790	Plate	1	
428-54-24560	Plate	1	
07000-02140	O-ring	1	Part to be replaced
07000-F2060	O-ring	3	
07000-12060	O-ring	1	
07000-13042	O-ring	1	

1. Parts which need to be removed for this modification
   ① Remove the pipings connecting to the hydraulic tank.
   ② Remove the hydraulic tank.
   ③ Remove the L. H. floor.

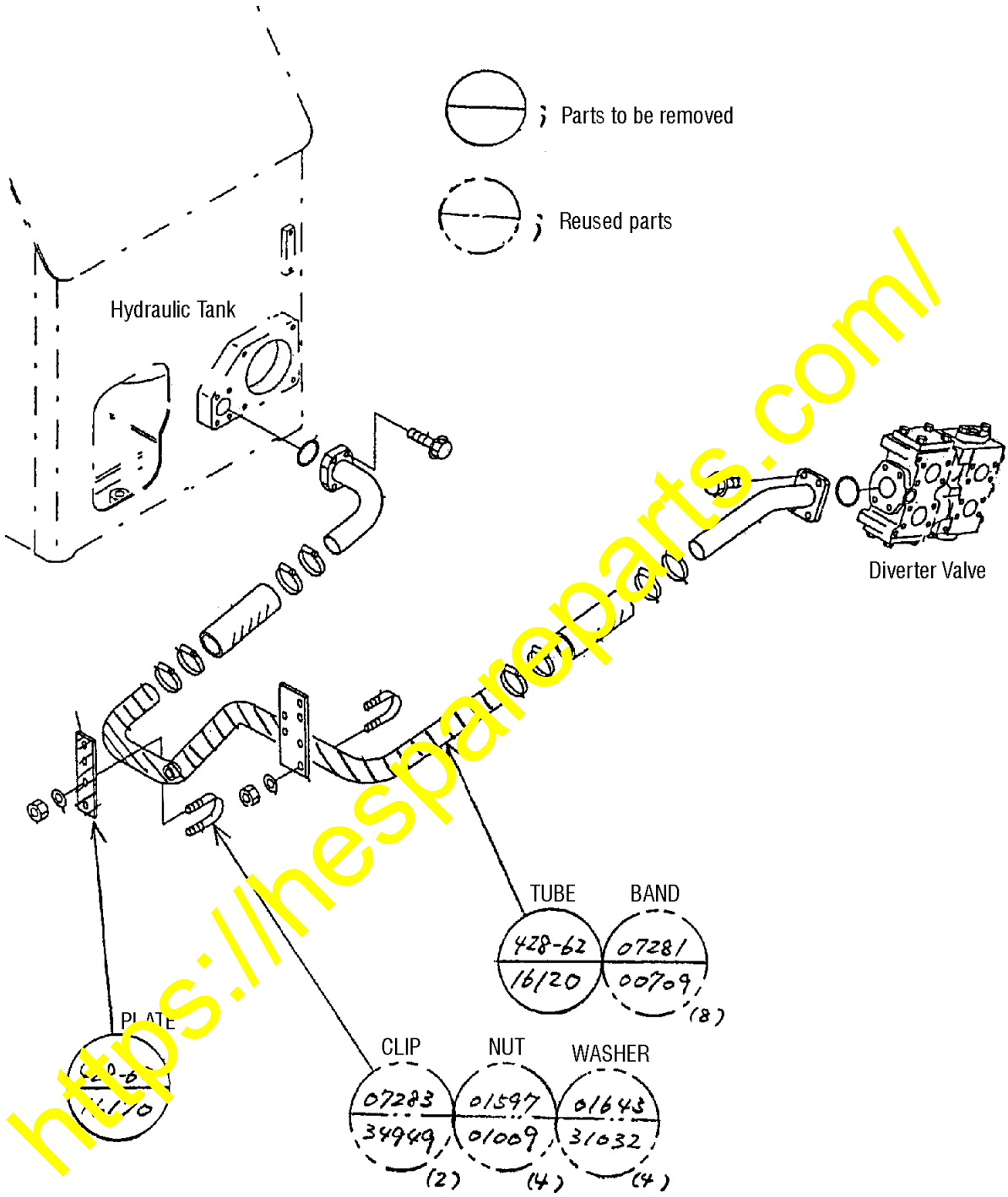
1-1 Removing the hydraulic cooler piping
Remove the parts so indicated in the figure below.



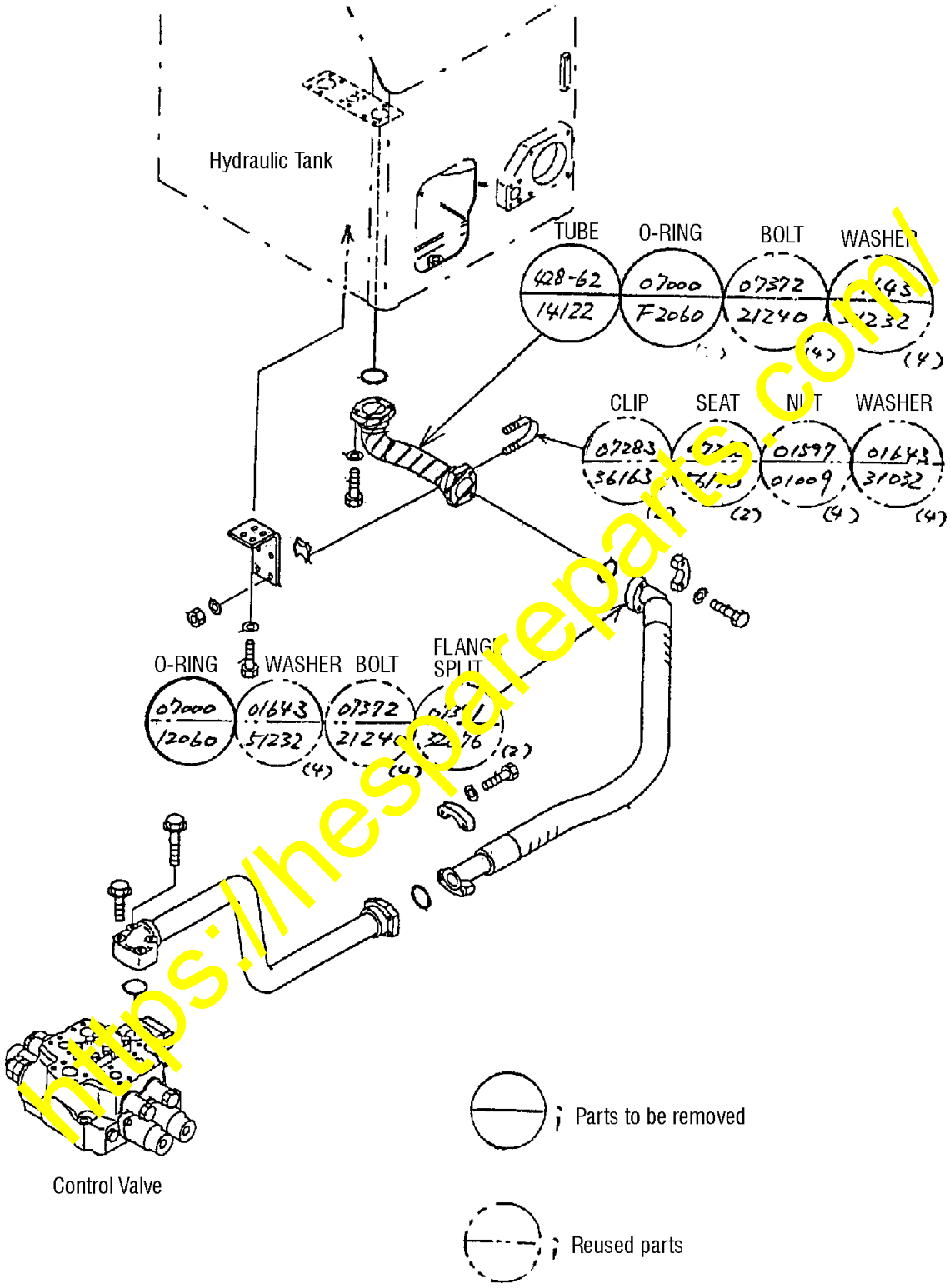
1-2 Removing the emergency S/T line return tube
Remove the parts so indicated in the figure below.



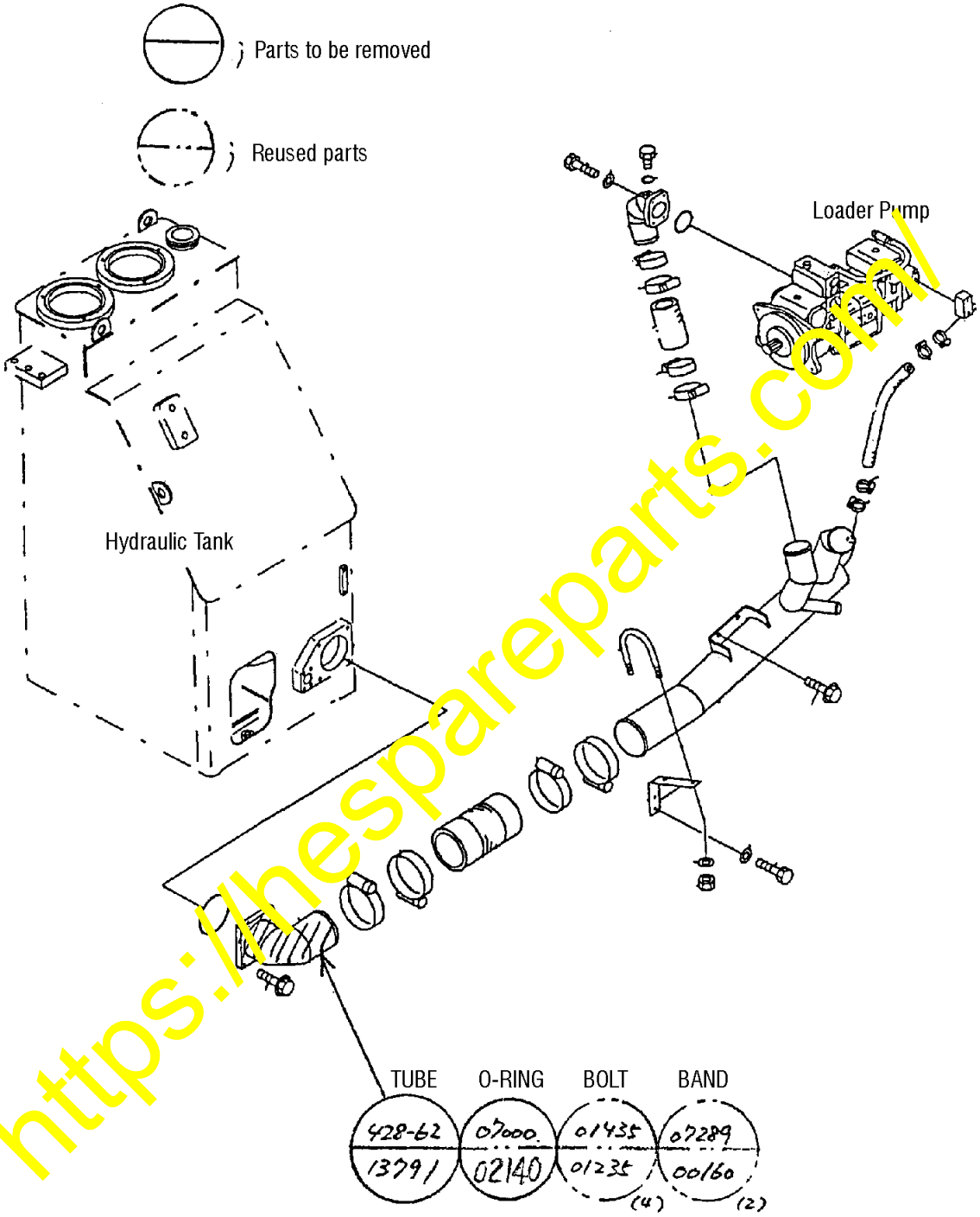
1-3 Removing the emergency S/T suction line
Remove the parts so indicated in the figure below.



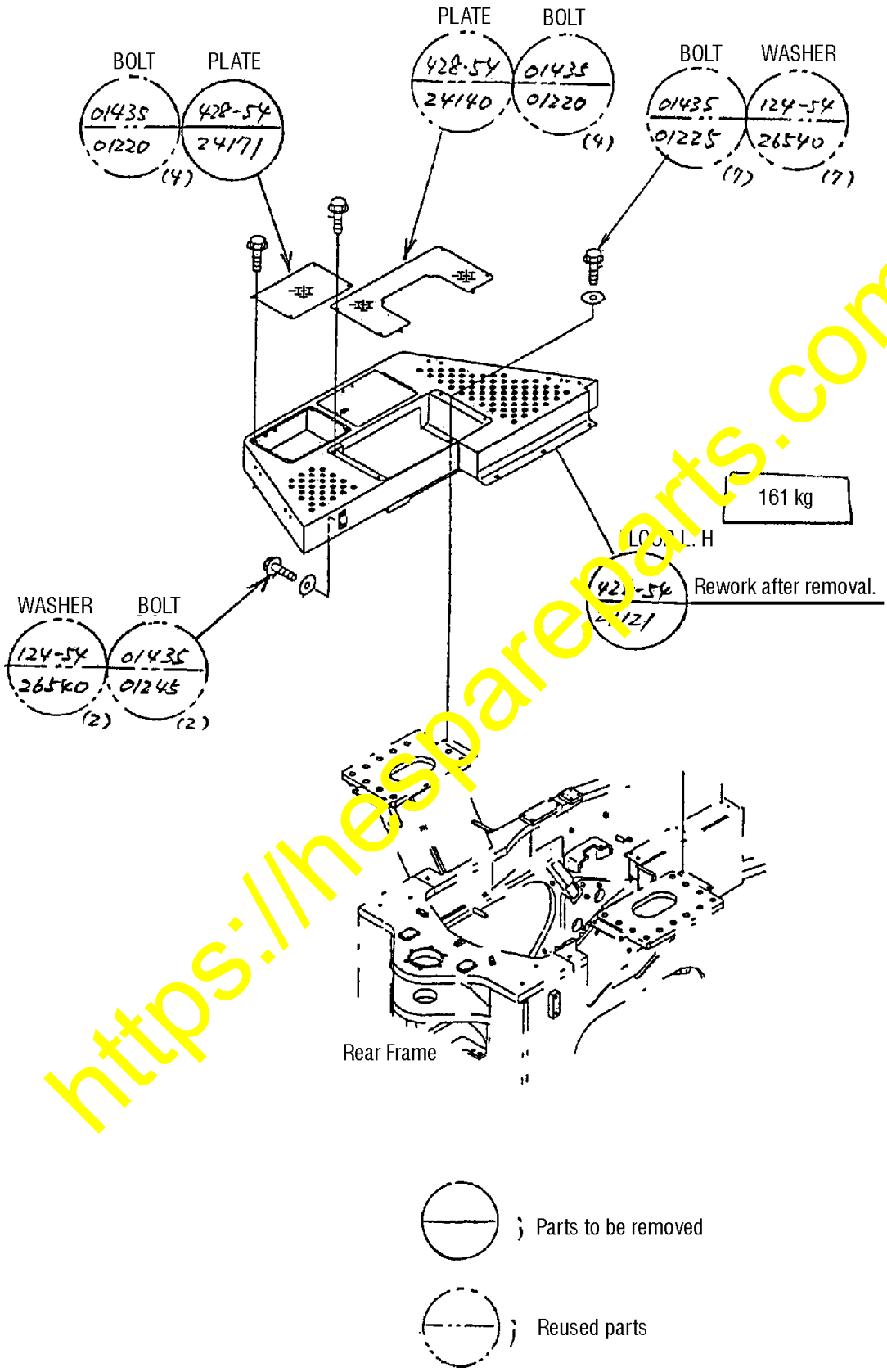
1-4 Removing the main hydraulic return tube
Remove the parts so indicated in the figure below.



1-5 Removing the main suction tube of the hydraulic line
Remove the parts so indicated in the figure below.

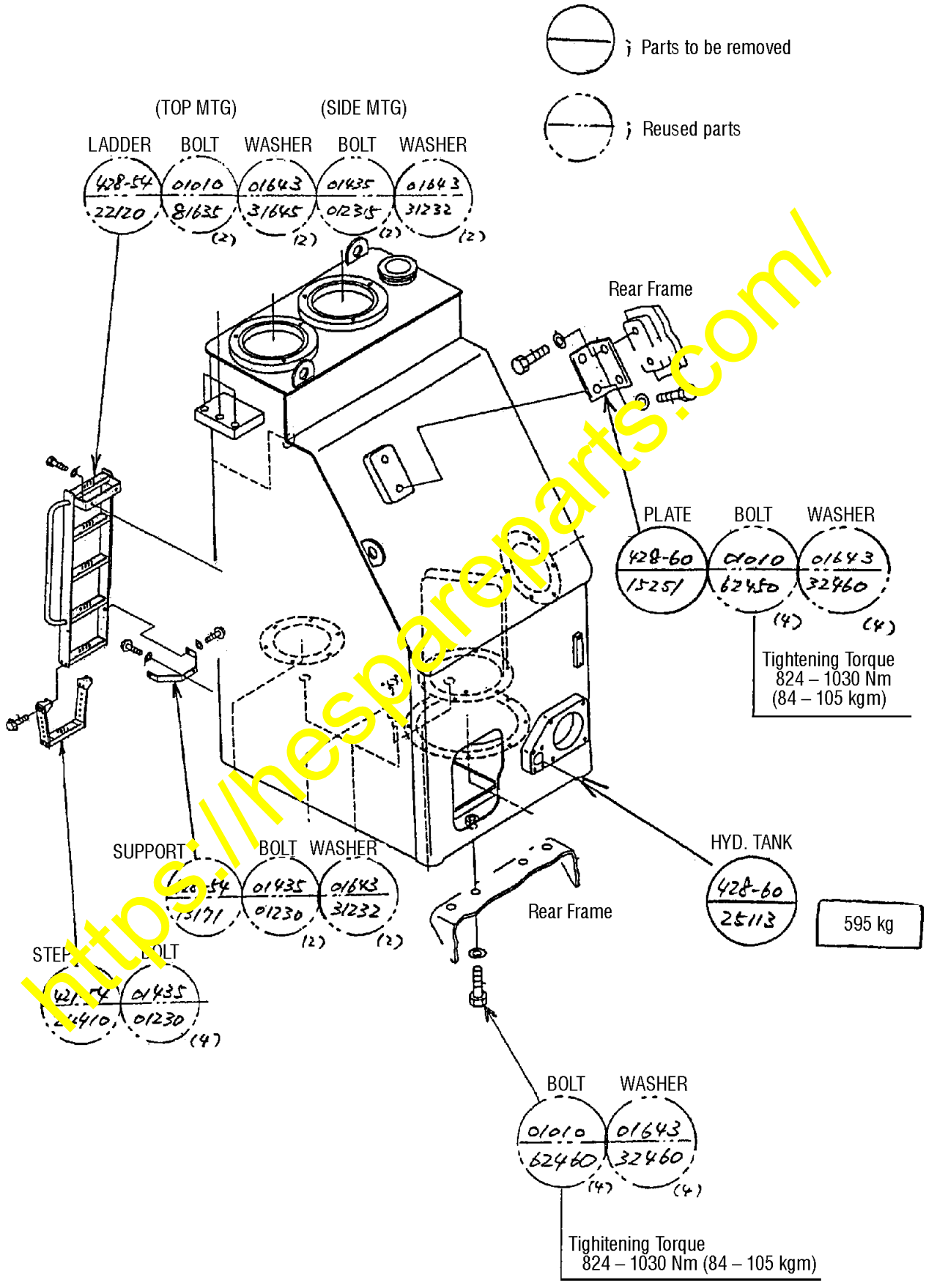


1-6 Removing the floor L. H.
Remove the parts so indicated in the figure below.



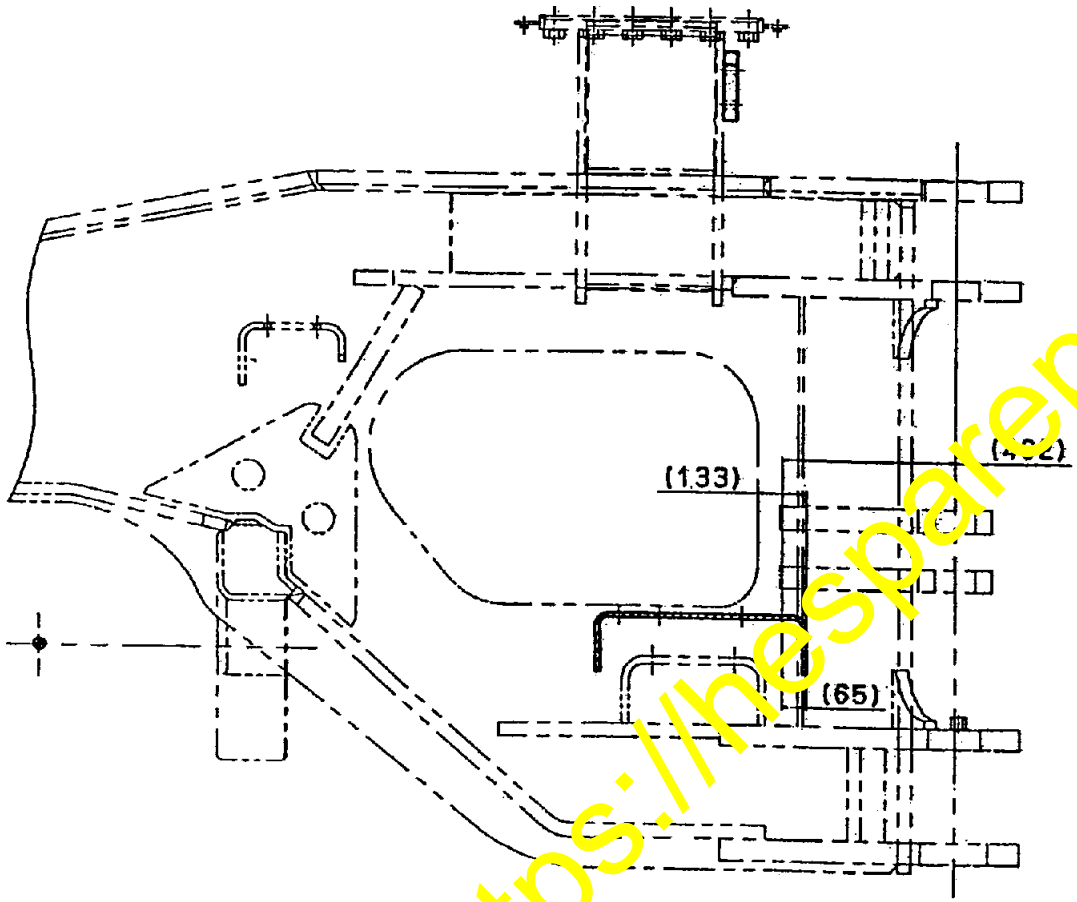
1-7 Removing the hydraulic tank

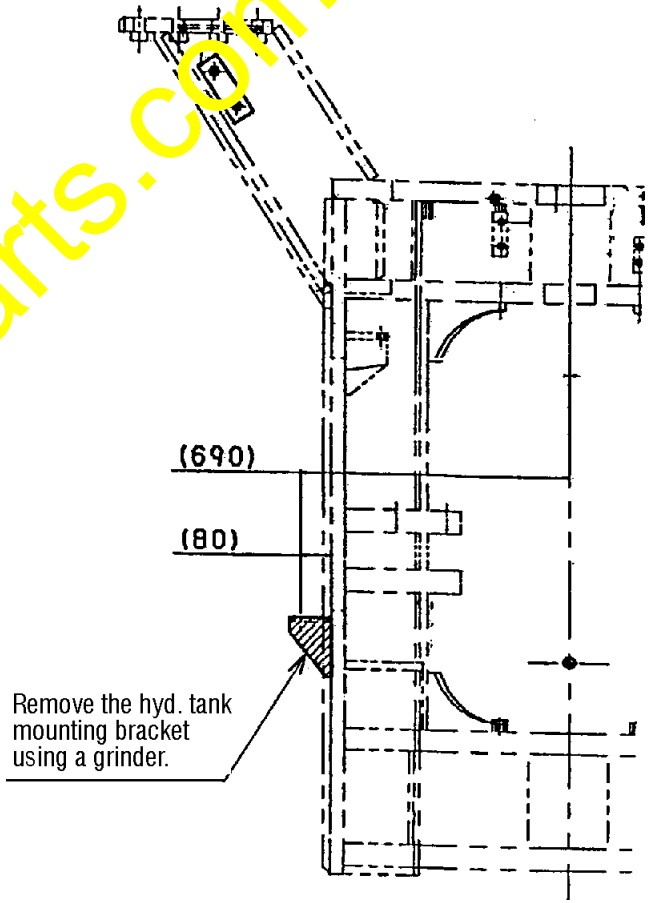
Remove the parts so indicated in the figure below.



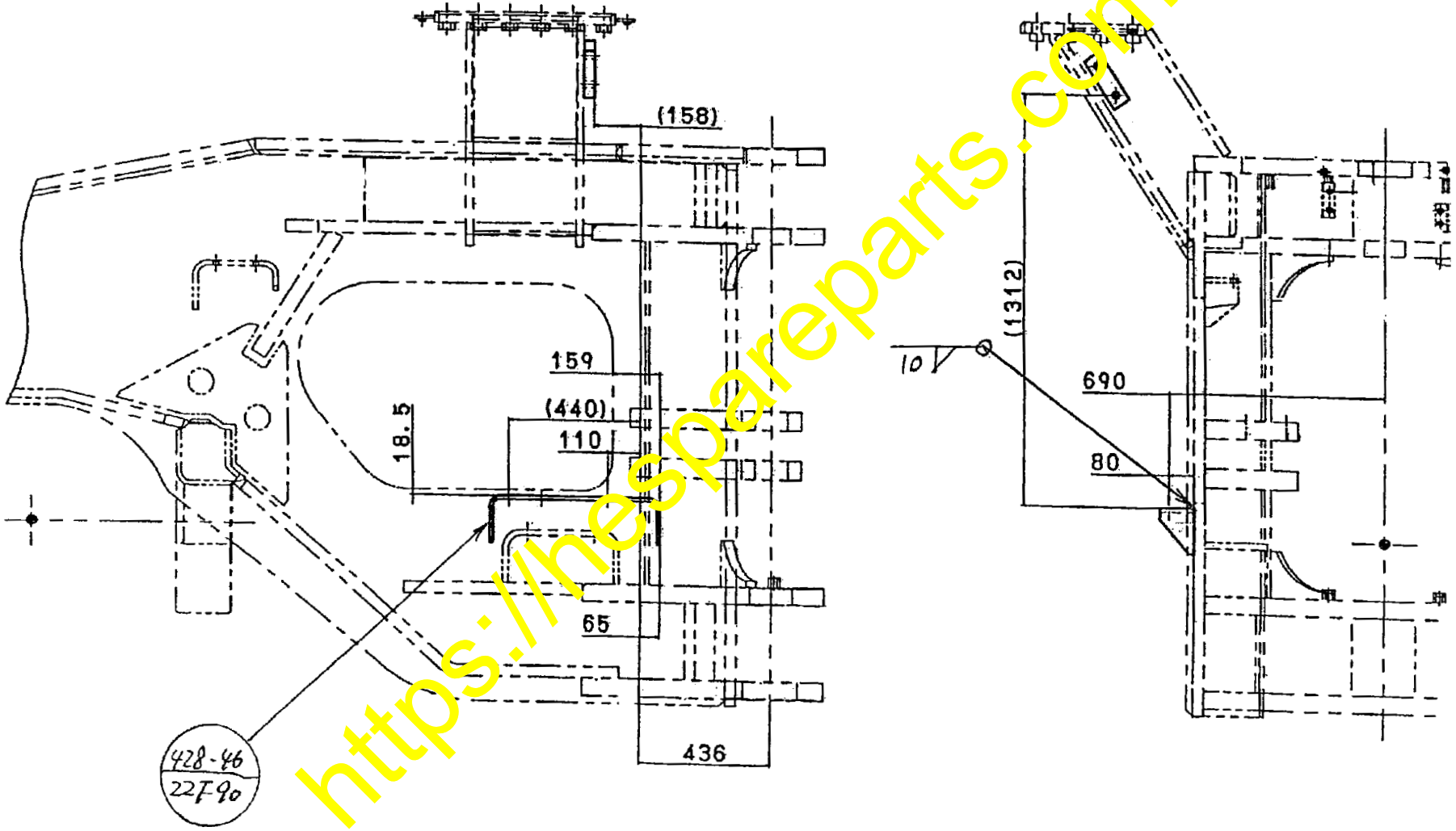
2. Rework

2-1 Reworking with the rear frame

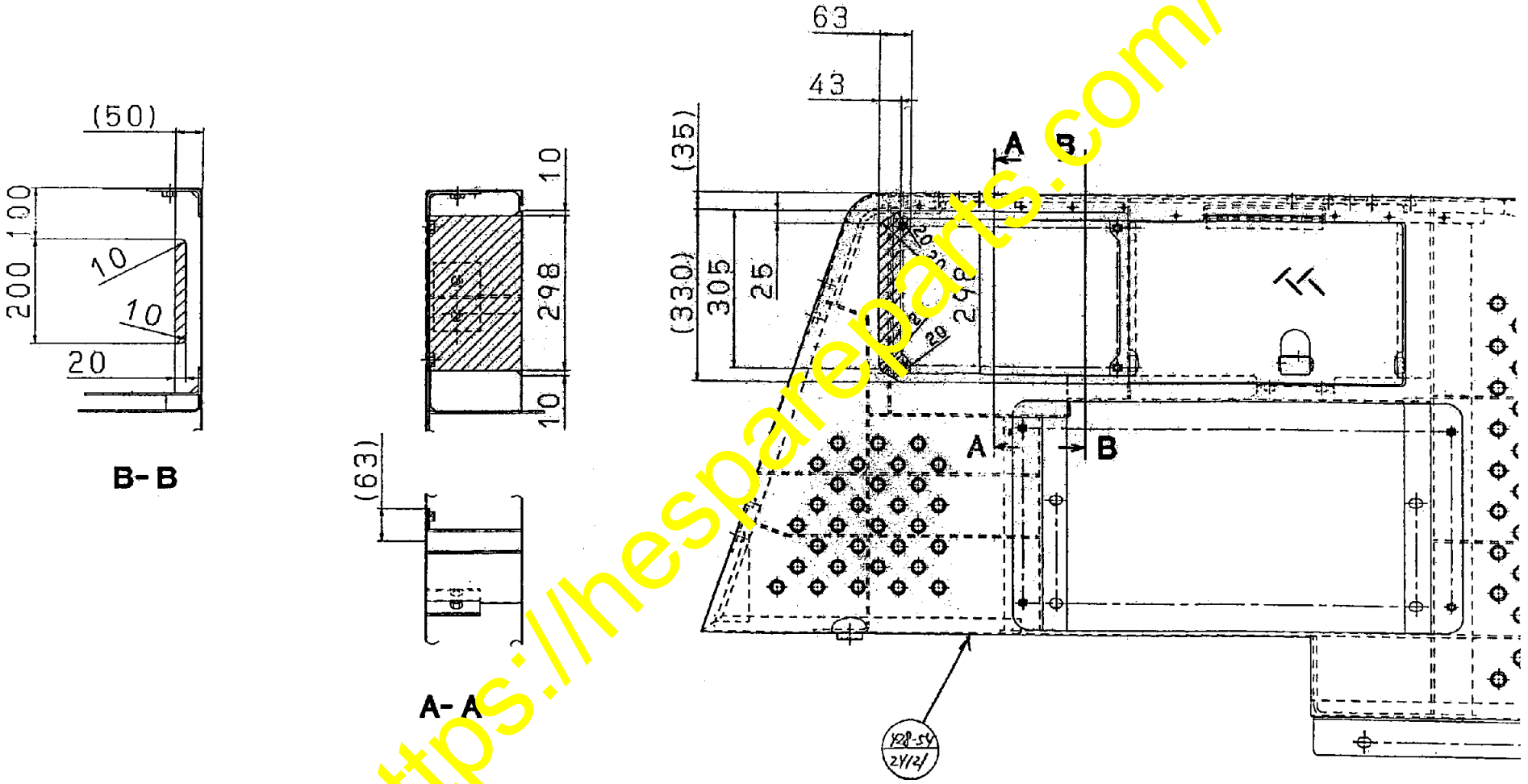


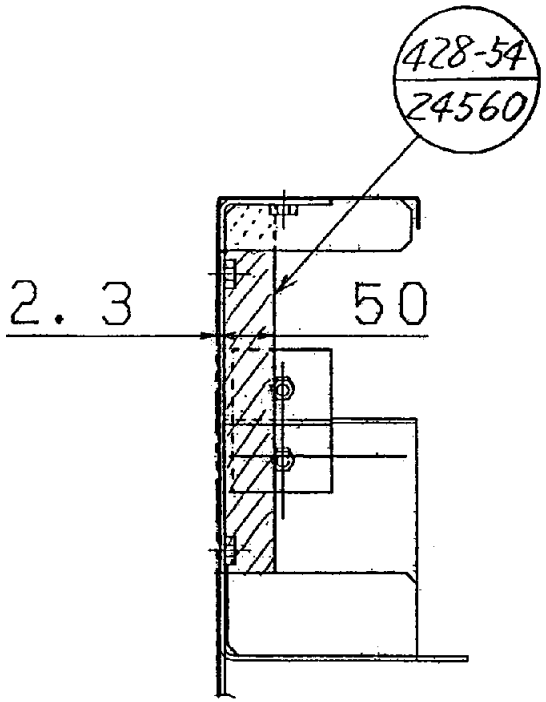


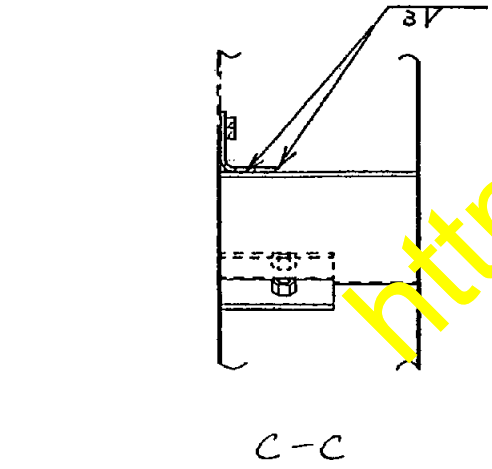
※ After welding paint the reworked section.

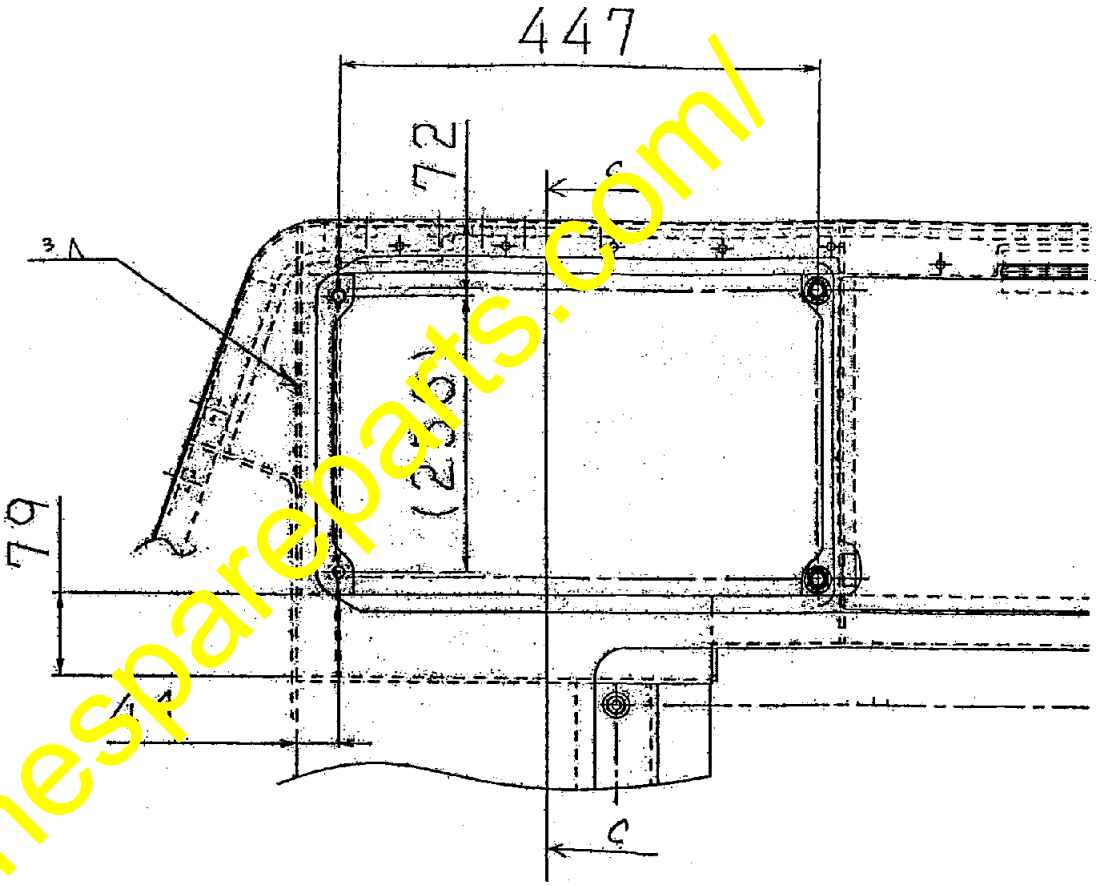


2-2 Reworking with the L. H. floor
Cut off the ▨ marked area.





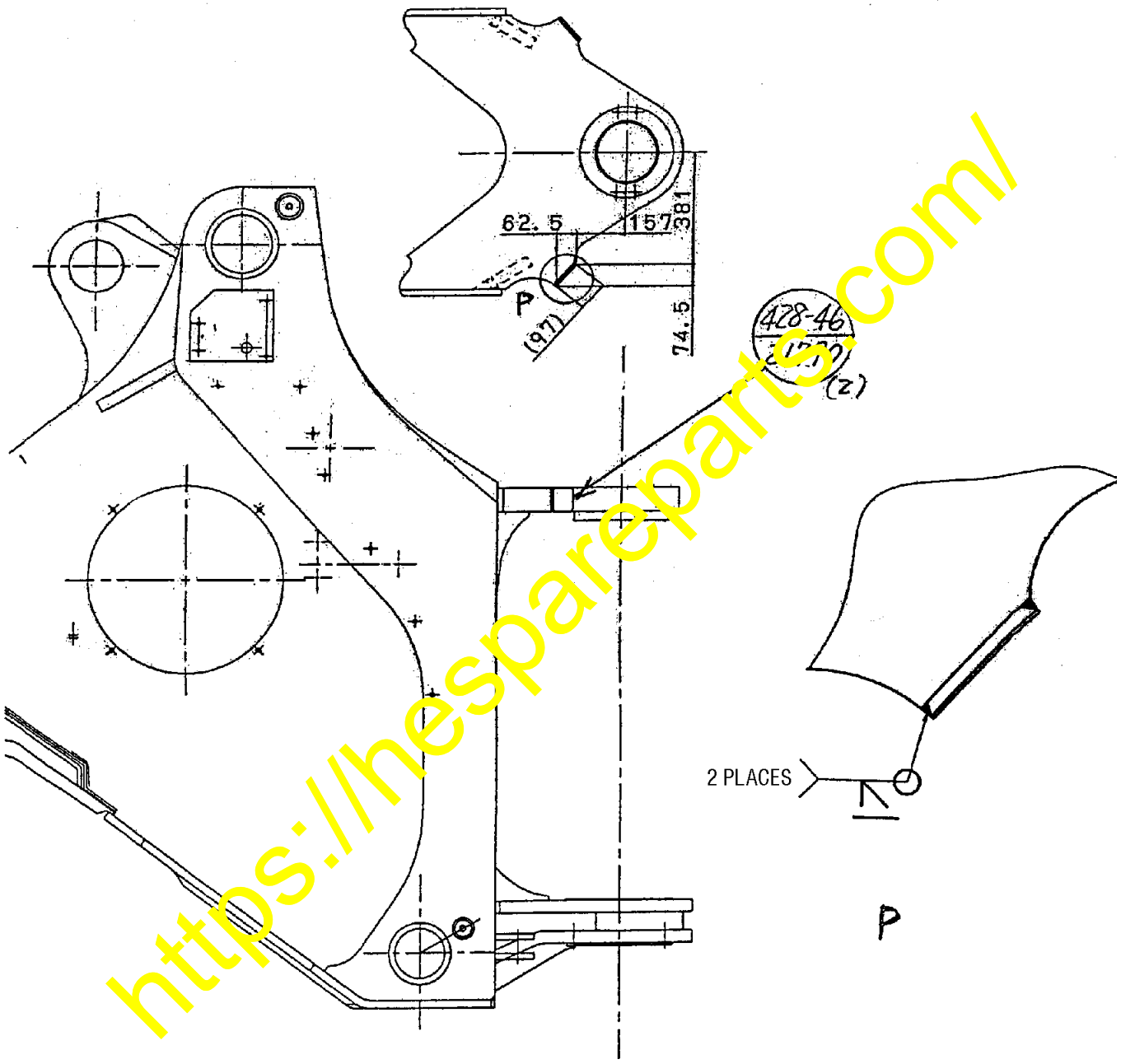




Weld to install the prepared parts to L. H. floor.
※ After finishing welding, apply corrective painting over the welded surface.

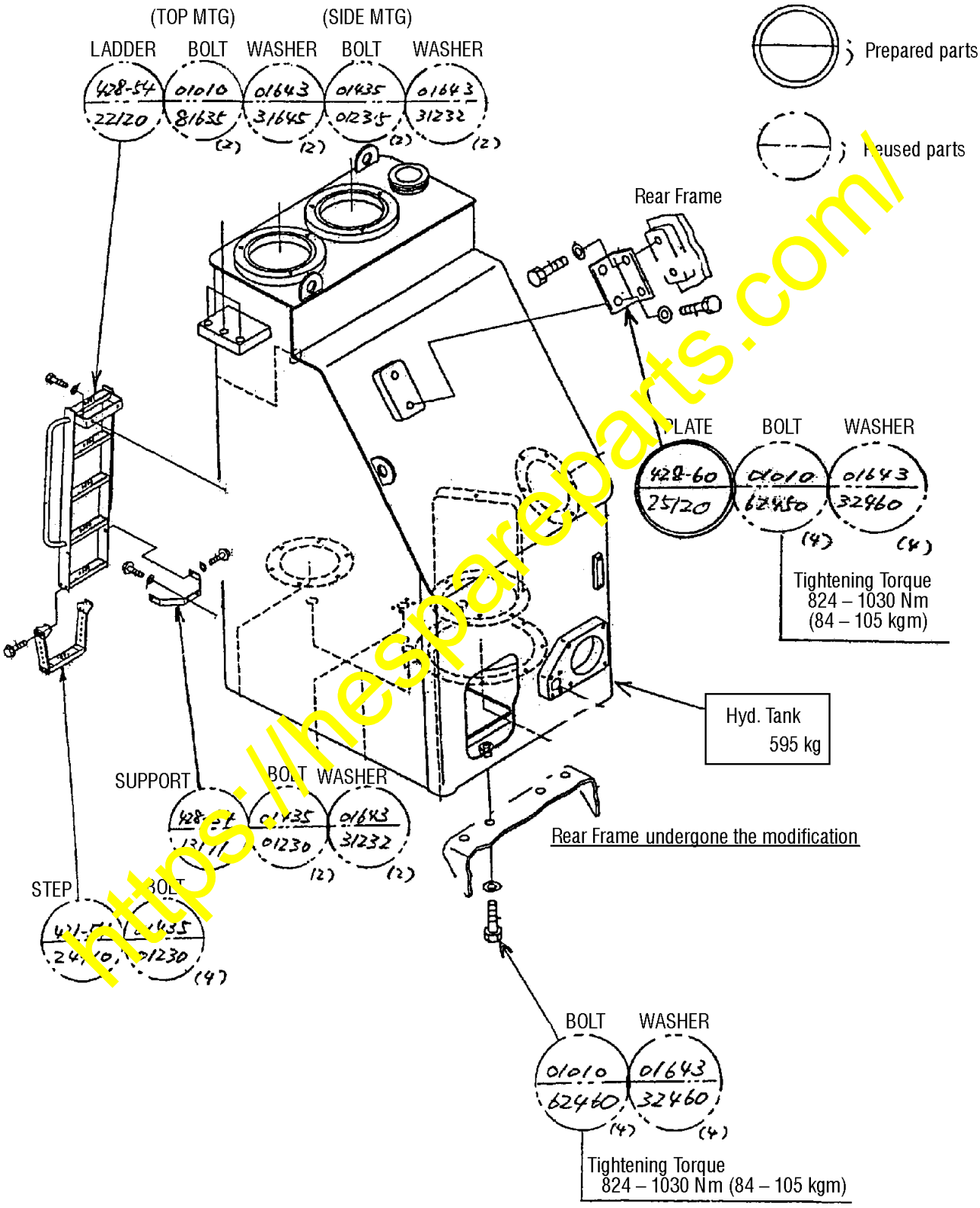
F/FRAME REWORK

※ After welding, paint the reworked section.

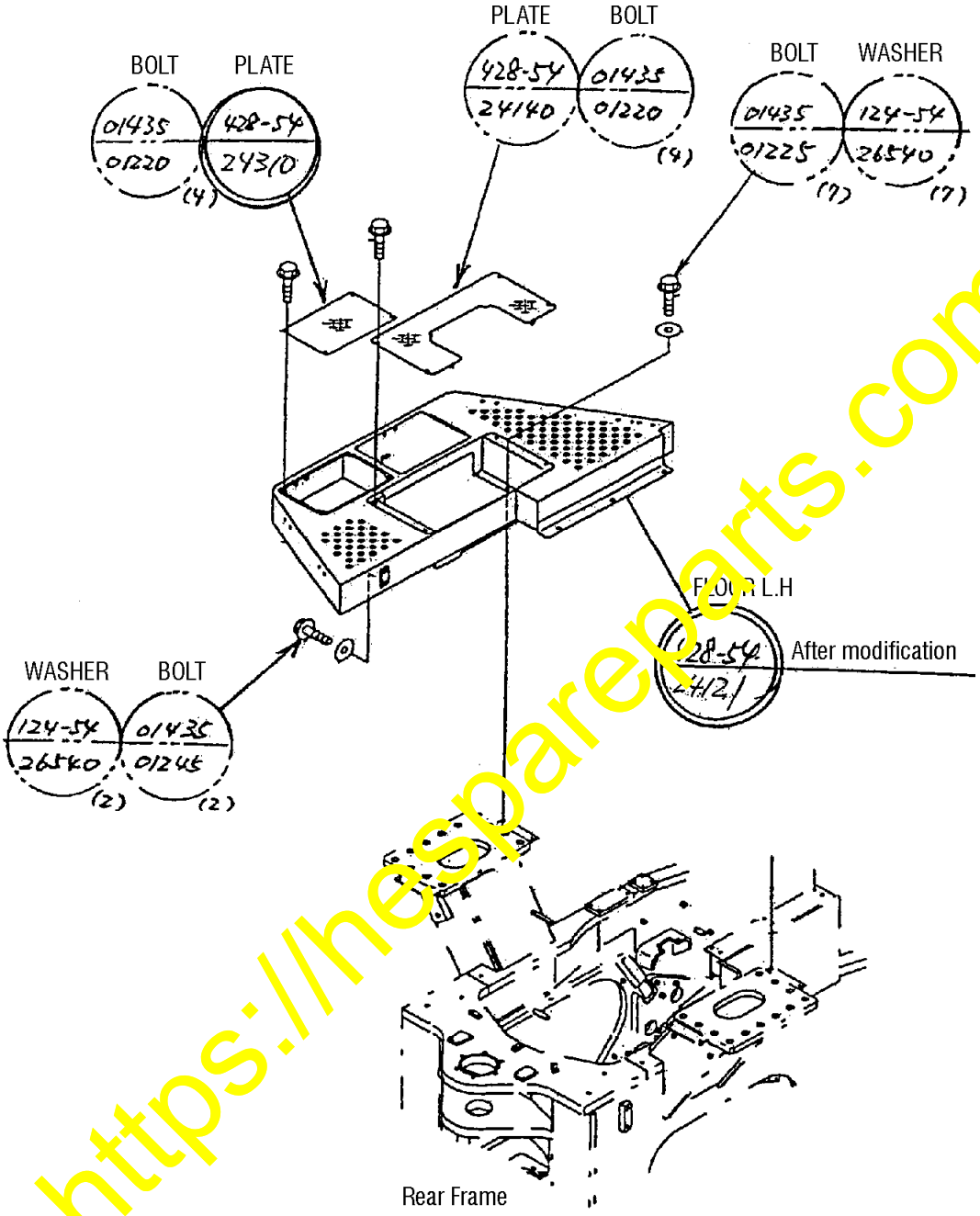


3. Restoration

3-1 Assembling the hydraulic tank



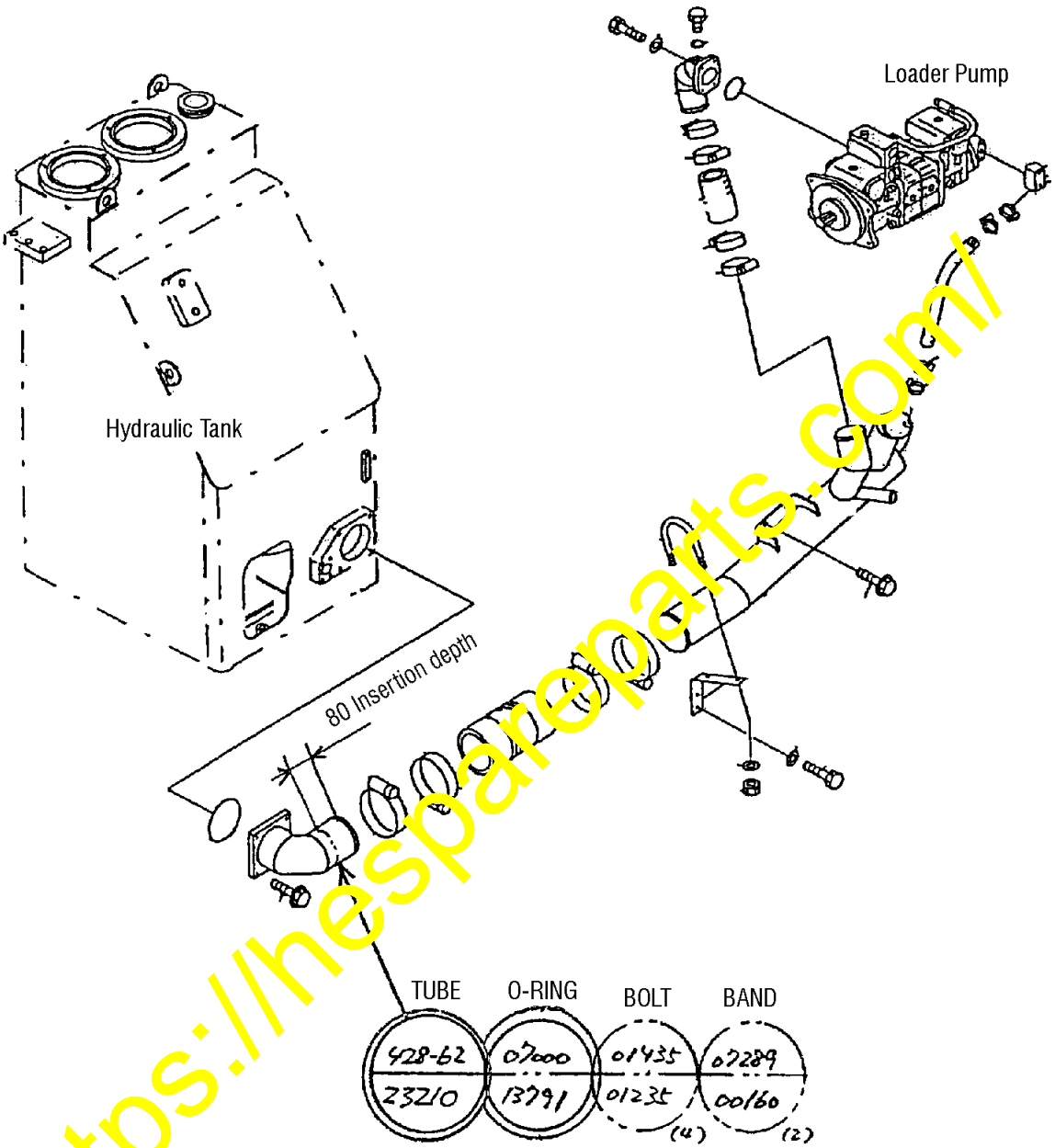
3-2 Assembling the L. H. floor



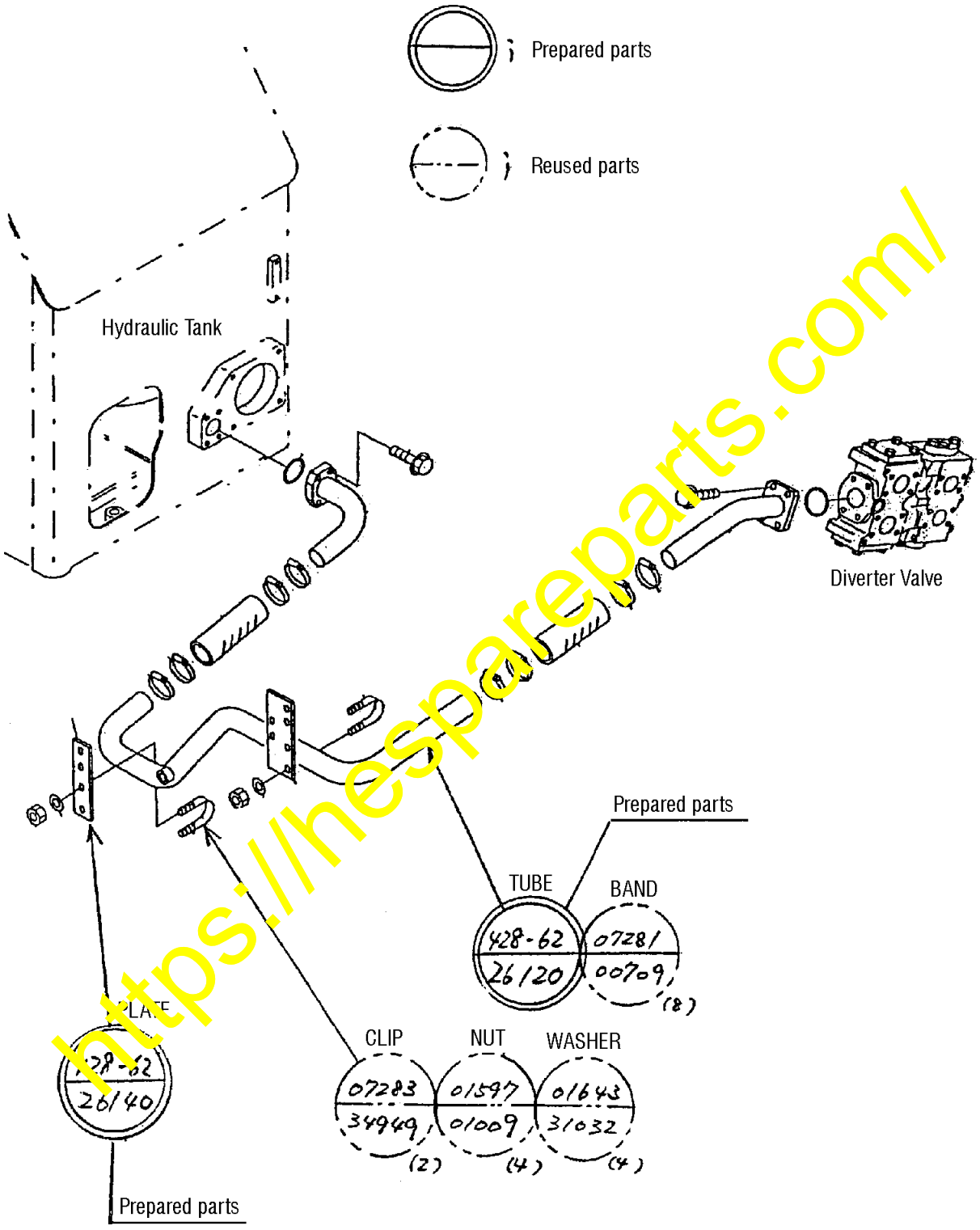
Prepared parts

Reused parts

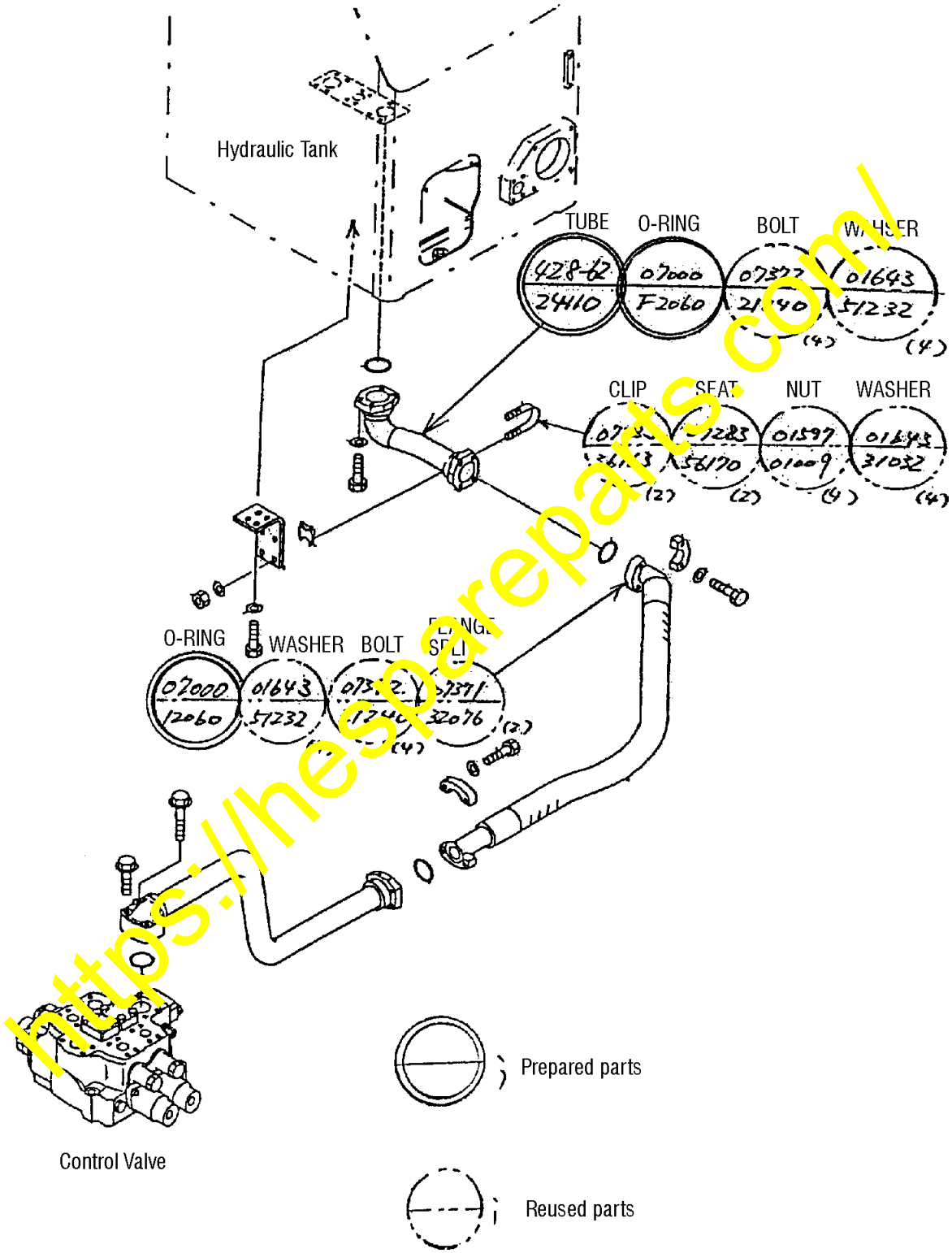
3-3 Assembling the main suction tube



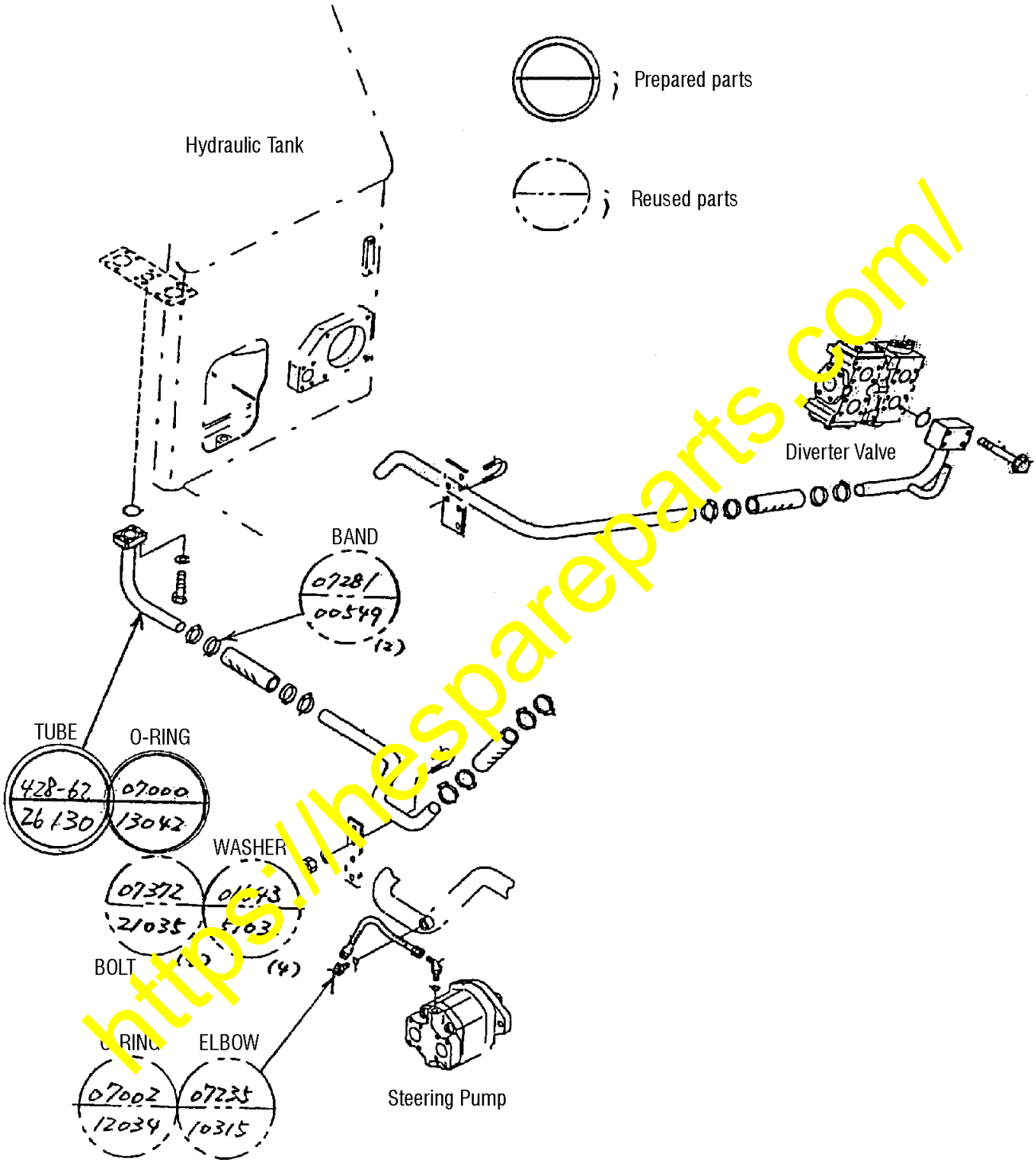
3-4 Installing the emergency S/T suction line tube



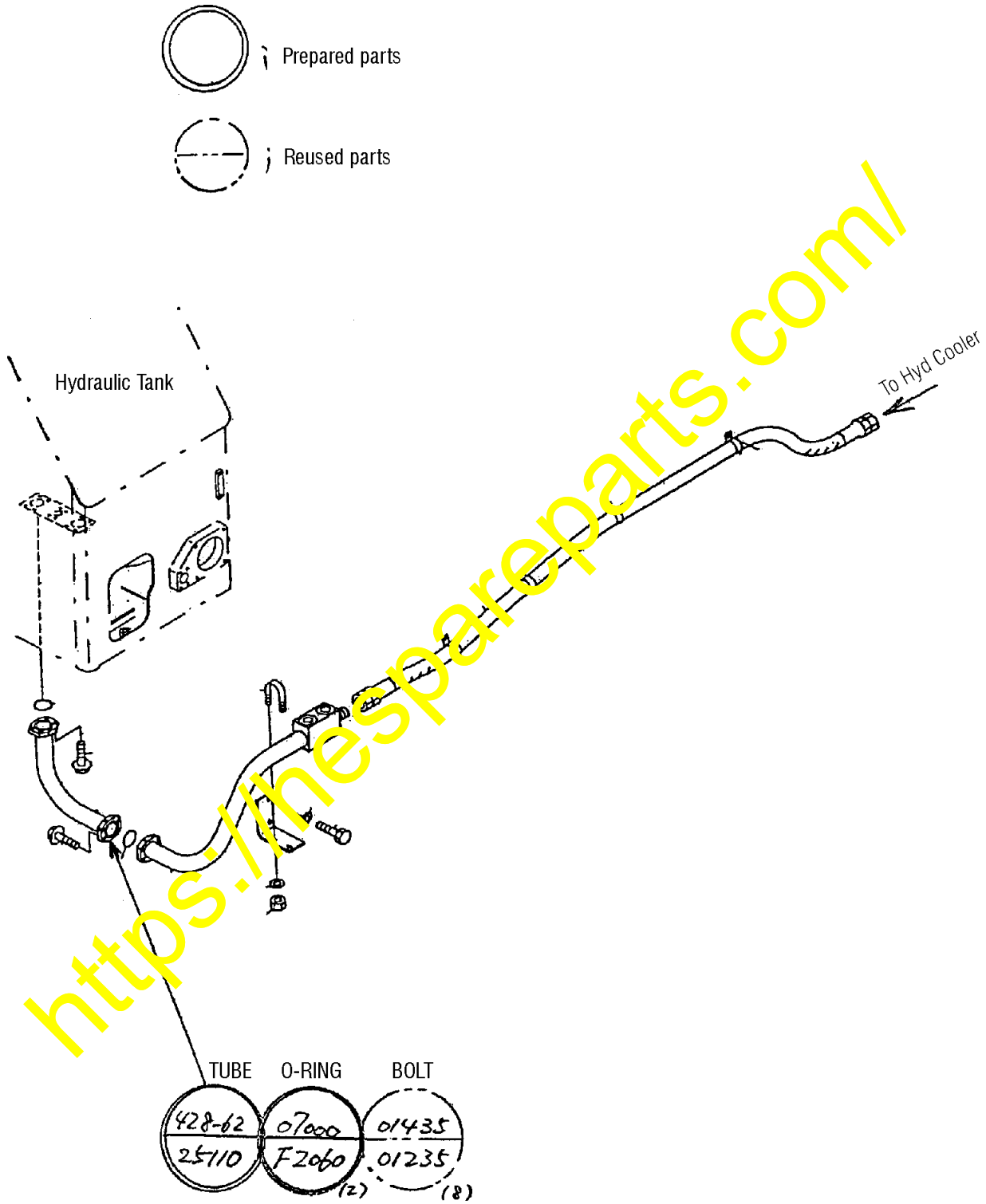
3-5 Assembling the hydraulic return tube

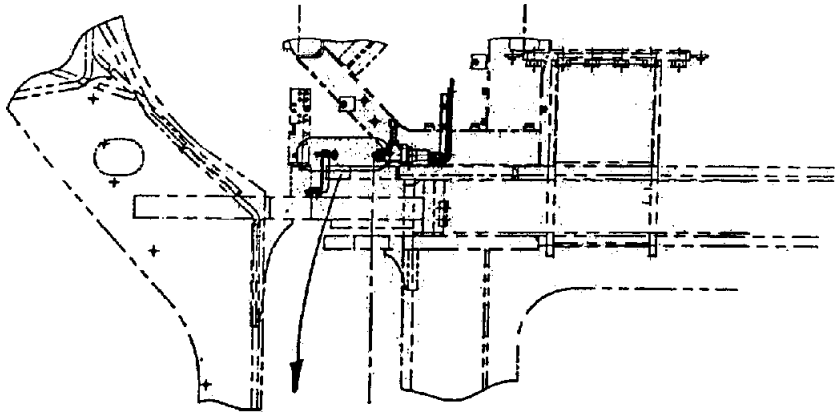


3-6 Assembling the emergency S/T return line tube



3-7 Assembling the hydraulic cooler piping.



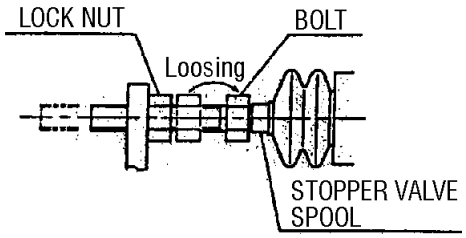


ADJUSTMENT PRODURE FOR STOPPER VALVE STOPPER BOLT

1. MINIMIZE THE STOPPER BOLT LENGTH AS SHOWN.

2. RUN THE ENGINE AT THE LOW IDLING SPEED AND SLOWLY STEER TO LOCK TO THE FRAME END.

3. UNDER THIS CONDITION, LOOSEN THE BOLT UNTIL ITS HEAD TOUCHES THE STOPPER VALVE SPOOL END.



NOTE
(DON'T PUSH THE SPOOL BY LOOSING THE BOLT TOO MUCH.)

4. STEER IN THE OPPOSITE DIRECTION UNTIL THE WHEELS ARE STRAIGHTENED, THEN STOP THE ENGINE.

5. LOOSEN THE BOLT BY 8.5 – 9 TURNS (14.9 – 15.8 MM) THEN SECURE IT WITH THE LOCK NUT.

6. PERFORM ABOVE STEPS 1 THRU 5 FOR BOTH SIDES.