

# PARTS & SERVICE NEWS

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(C)

Page 1 of 3

**SUBJECT:** REINFORCING A/C CONDENSER OUTLET PIPING

**PURPOSE:** To inform the field of a reliability improvement for air conditioner systems.

**APPLICATION:** Komatsu Electric Drive Dump Trucks:  
 445E: 32210-32972, 31202-31736, A511001-A511037;  
 510E: 31222-32259, 31682-32865;  
 630E: (170 ton): 31670-32866, A31435 & Up;  
 630E: (190 ton): 31678-32848, A31431 & Up;  
 685E: 31402 & Up;  
 730E: 32530-32845, A30079 & Up;  
 830E: 31320-32825, A30544 & Up;  
 930E: 32604-32816, A30019, A30026-A30120;  
 930E-2: A30012, A30098, A30100, A30121 & Up;  
 930E-3: A30294, A30304 & Up;  
**equipped with A/C condenser (PB9510)**

Komatsu Mechanical Drive Dump Trucks:  
 530M: A30001 thru A30038, 32522;  
 HD1500-5: A30039 and up,  
**equipped with A/C condenser (PB9510)**

**FAILURE CODE:** 8720HA

## DESCRIPTION:

Some trucks in operation may experience damage to the outlet tube on air conditioning system condensers (PB9510). Normal truck operation and vibration can sometimes cause damage to this tube due to lack of support. Figure 1 illustrates the current outlet tube arrangement.

A field improvement has been developed that entails welding a locally fabricated support gusset to the existing support. The addition of the gusset reduces the possibility of this damage occurring and increases the life of the condenser, resulting in less downtime.

Inspect the condenser for cracking near the fitting. If any cracking is evident, repair or replace the condenser.

Refer to Figure 2 for dimensions for fabricating the gusset. Refer to Figure 3 for welding specifications and installation details.

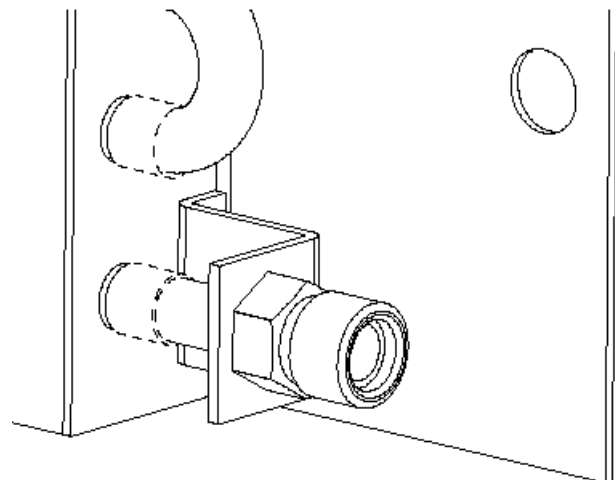


FIGURE 1. OUTLET TUBE

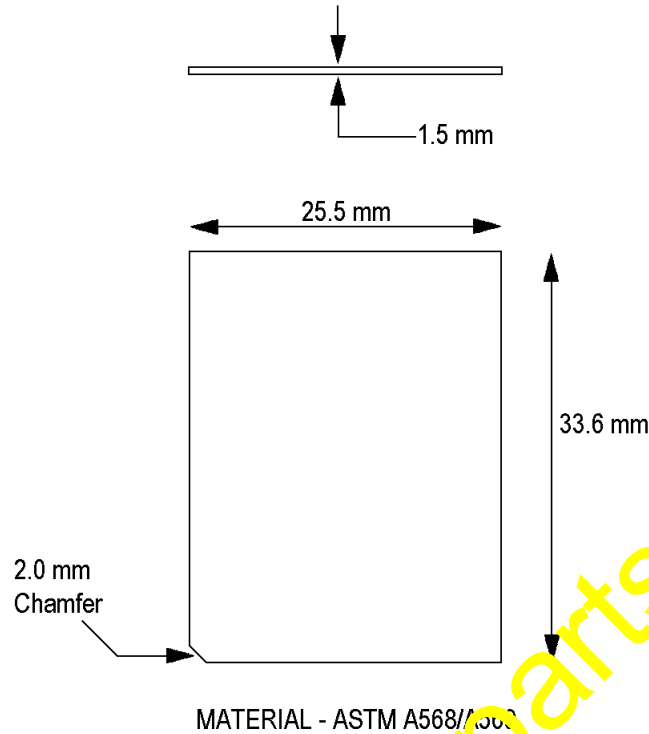


FIGURE 2. GUSSET SPECIFICATIONS

**CAUTION**

*Evacuate the air conditioning system before brazing the gusset to the condenser. Refer to the appropriate shop manual for information on evacuating the air conditioning system.*

*Remove the O-ring from the fitting before welding. Use precautions such as applying wet cotton rags to the fitting for protection from excess heat. The receiver drier must be replaced after the system has been opened.*

*Refer to Welding 1, SEBF14001, and Welding 2, SEBF15002, for detailed information on welding.*

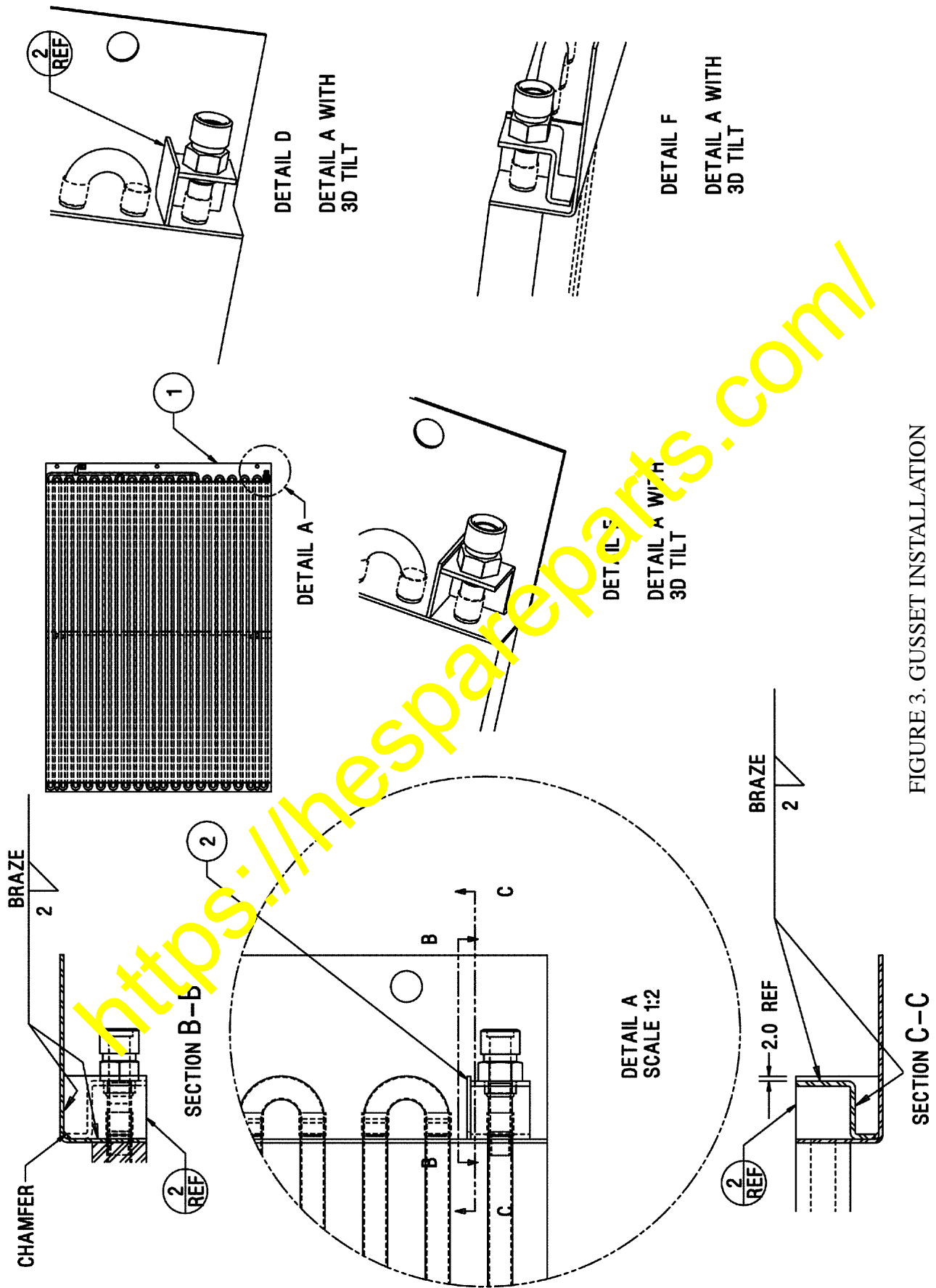


FIGURE 3. GUSSET INSTALLATION

- 1. Condenser
- 2. Gusset