

PARTS & SERVICE NEWS

REF NO.	AA00173
DATE	31, October 2000

- SUBJECT:** RADIATOR SIGHT GAUGE REWORK & RADIATOR FILLING PROCEDURE
- PURPOSE:** To introduce proper radiator filling instructions for all electric drive trucks and radiator rework instructions for certain 830E & 930E trucks
- APPLICATION:** 445E: AFE39-A & up; 445E: AFE41-A & up; 510E: AFE40-A & up; 510E: AFE44-A & up; 630E: AFE42-A & up; 630E: AFE46-A & up; 730E: AFE47-A & up; 730E: A30079 & up; 830E: AFE32-A & up; 830E: AFE50-A & up; 830E: A30544 & up; 930E: AFE48-A & up; 930E: A30019 & up.
- FAILURE CODE** 032316
- DESCRIPTION:** To ensure proper radiator filling procedures for all electric drive dump trucks listed above and to correct coolant level sight gauges on certain 830E & 930E dump trucks.

Radiator Filling Instructions



Cooling system is pressurized because of thermal expansion of coolant. DO NOT remove radiator cap while engine and coolant are hot. Severe burns may result.

1. With engine and coolant at ambient temperature, remove radiator cap.

*NOTE: If coolant is added using the Wiggins quick fill system, the radiator cap **MUST** be removed prior to adding coolant.*

2. Fill radiator with proper coolant mixture (as specified by the engine manufacturer) until coolant level is visible in the sight gauge.
3. Install radiator cap.
4. Run engine for 5 minutes, check coolant level. If coolant is not visible in the sight gauge, repeat steps 1 through 4. Any excess coolant will be discharged through the vent hose after the engine reaches normal operating temperature.

NOTE: Engine coolant must always be visible in sight gauge before truck operation.

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On 830E trucks (serial number suffix AFE32-A through AFE32-FA and AFE50-A through AFE50-W), the sight gauge should be modified so the proper radiator filling height will be correct when filled using the procedure above. Refer to page 2 (Figure 1) for rework instructions.

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On 930E trucks (serial number suffix AFE48-A through AFE48-BK), the sight gauge should be modified so the proper radiator filling height will be correct when filled using the procedure given above. Refer to page 3 (Figure 2) for rework instructions.

On 830E trucks with serial number suffix AFE50-X (A30621) & higher, and 930E trucks with serial number suffix AFE48-BL (A30164) & higher, the sight gauges are positioned correctly so they can be filled and checked using the procedure given above. Rework of the sight gauge is not needed on these trucks.

830E Rework

Reference drawing EJ2255 is used to rework sight gauge, or follow instructions below.

1. Clean sight gauge of oil, grease or antifreeze.
2. Measure and mark at dimension shown in Figure 1.
3. Mask upper portion of sight gauge with masking tape.
4. Paint lower portion of sight gauge with black paint.
5. Remove masking tape.
6. Ensure that coolant level is visible in sight gauge.

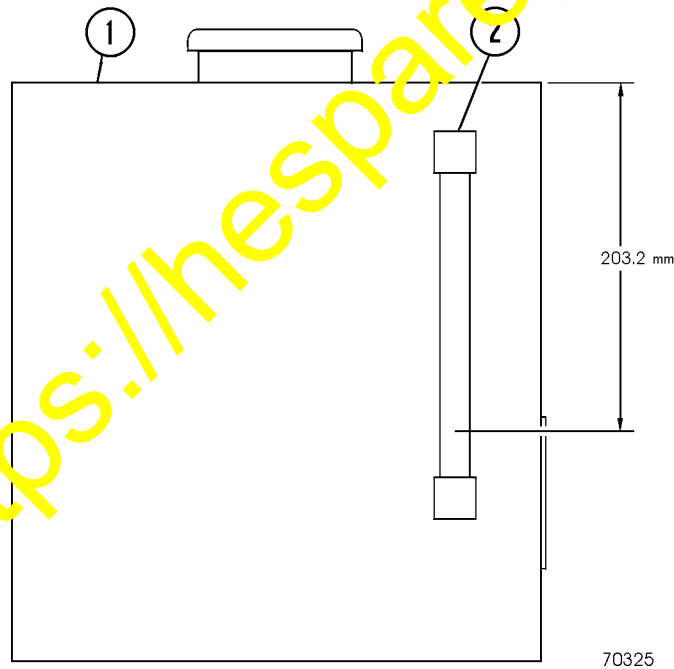


FIGURE 1. 830E RADIATOR

1. Top Tank

2. Sight Gauge

930E Rework

Reference drawing EJ2256 is used to rework sight gauge, or follow instructions below.

1. Clean sight gauge of oil, grease or antifreeze.
2. Measure and mark at dimension shown in Figure 2.
3. Mask upper portion of sight gauge with masking tape.
4. Paint lower portion of sight gauge with black paint.
5. Remove masking tape.
6. Ensure that coolant level is visible in sight gauge.

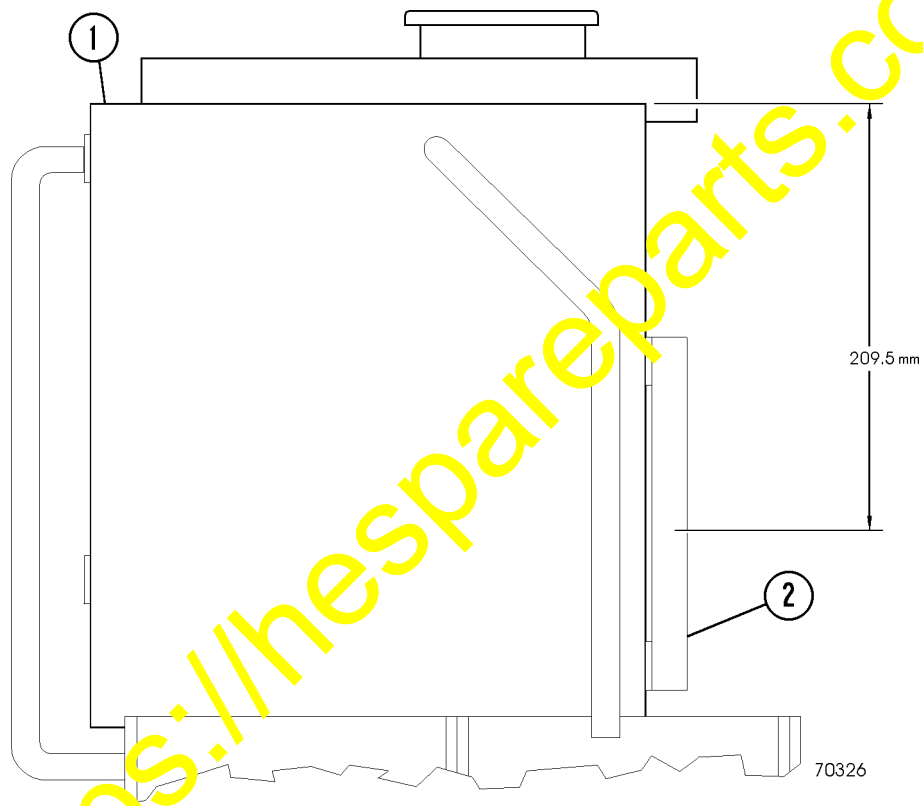


FIGURE 2. 930E RADIATOR

1. Top Tank

2. Sight Gauge