

SM300 Baffle Radiator Support Brackets

LAY TSB-15-005

Date: September 30, 2015

Model: SM300

Product Issue:

Laymor has developed an addition to support the baffle radiator P/N 1000047. In the event that a unit location received the radiator without this kit then that unit is eligible for this repair.

Units affected:

80 Potential SM300 units affected:

Parts kit:

- 9107173K

Overview:

Units involved in this are to follow the standard Laymor warranty procedure. Replacement parts will be shipped to the location for installation. See Illustrations below for an overview of the scope of the repair.

Tools needed:

- SAE socket set 1/4" to 1"
- SAE wrench set 5/16" to 1"
- 1/4" drive Ratchet
- 3/8" drive impact wrench
- 3/8" Drill
- Drill bit set
- Pliers
- Automotive hose pick
- Paint pin
- Tape measure
- Drip pan
- Funnel
- 1 gallon 50/50 extended life coolant
- Thread locker / Loctite

Approved SRT:

The Laymor approved standard repair time for this service bulletin is 3 hours.

Instructions:

Pull unit into approved level work area. Turn the engine off and place it in park.

1. Open radiator pet cock and remove radiator cap to drain coolant into a drip pan
2. Remove top radiator hose from thermostat
3. Remove overflow bottle hose from radiator neck
4. Remove isolator bracket assembly from top radiator mount and discard
5. Remove bottom radiator hose to water pump
6. Remove radiator mounting bolts (2)
7. Remove radiator
8. Remove radiator baffle flap brackets & hardware (12 bolts & washers)
9. Disconnect and remove battery
10. Secure motor by placing a jack underneath the oil pan
11. Remove both motor mounts
12. Remove existing radiator mounting plates (2)
13. Apply thread locker/ Loctite to motor mount bolts
14. Install new motor mount spacers with motor mounts
15. Torque motor mount bolts in a "X" pattern to 50 Ft. Lbs.
16. Install battery and connect cables
17. Remove existing 3 bolts on left rear of frame
18. Leave top left bolt to hold water pump filter into place



19. Install new bottom radiator mount (1000040) using 3 bolts (441568) & nuts (440636)



19a. Slide and center the new radiator mount plate all the way to the left hand side. Install 3 existing bolts on the left side securing water pump. This will help with the fan clearance. Drill 3 holes with a ¼" bit on the right hand side. Install right hand side mounting bolts.





20. Remove 3 way shutdown located inside the top frame



21. Install new top radiator mounting plate (1000041) between the frame and the 3 way shutdown box. Use 2 screws (407502), washers (011321) & nuts (440628) in parts kit. Leave the bolts slightly loose to aid in radiator alignment



- 22.Reinstall radiator
- 23.Install bottom radiator hose to water pump
- 24.Install top radiator hose from thermostat
- 25.Install overflow bottle hose at the radiator fill neck
- 26.Install existing isolator for top radiator mount
- 27.Install bottom radiator mounting bolts (2 ea.) (9107153)
- 28.Tighten top radiator mounting plate screws (2ea.)
- 29.Install radiator baffle flaps with existing brackets (2) (12 screws & washers)
from old radiator



30. Close radiator pet cock and fill radiator with 50/50 Extended Life Coolant
31. Install radiator cap
32. Start engine
33. Run engine for 8 minutes
34. Turn off engine
35. Open radiator cap to purge
36. Top off radiator with 50/50 Coolant
37. Install radiator cap

REVISION HISTORY

REV ISION	DATE	DESCRIPTION OF CHANGE
0	9/30/15	NEW PROCEDURE

APPROVALS:

DATE:

AUTHOR	Danals Dunavan	9/30/15
Director of Engineering	Andy Cooper	09/30/15
Director of Quality	Barbara McCullough	09/30/15