



DATE: 11-09-16

APPLIES TO: This service bulletin applies to Spartan Emergency Response chassis cab, models Gladiator, MetroStar, Advantage, Big Easy, Mountain Star, MetroStar X, Furion, and TR1 model years 1999 through 2017 built between December 11, 1998 and August 30, 2016.

CONDITION: Condenser fan stop functioning

CORRECTION: Relay & harness replacement

LABOR ALLOCATION: 1.5 hrs.

CLASSIFICATION: A1 or A2 based on warranty status

PARTS NEEDED:

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
1	S-2546-001	Kit-Service SGM Condenser Harness

Kit # S-2546-001 Contains:

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
1	K 5055	Kit Service Wire Assembly
1	TSB16-160-001	Instruction Document

GENERAL INSTRUCTIONS:

Thoroughly review entire service bulletin before starting work. If there are questions or concerns with steps defined in this service bulletin, contact Spartan Motors USA, Inc. Customer & Product Support Group.

All applicable industry safety standards must be followed when performing work identified in this procedure.

Service Bulletins are intended for use by Professional Technicians only. They are written to guide Professional Technicians in performing service to vehicles of specific nature in conjunction with industry standards. Professional Technicians should be appropriately trained on industry standards and have the tools and equipment to perform procedures safely and properly.



K5055 Installation Guide

Spartan Part Numbers:

1194-RR3-001
1355-RR3-001
S-2546

SGM Part Numbers:

C5031
C5033
K5055

Prior to Servicing:

- Prior to servicing any electrical components on the condenser, the negative (-) battery should be disconnected and isolated. If a battery disconnect is available on the vehicle, the battery should be disconnected using this mechanism.
- Save all fasteners when removing components. In most cases these will be used upon reinstallation of the replacements parts.

1. Remove the (8 qty) bolts and washers retaining the cover to the condenser and remove cover.



2. Disconnect the electrical connection from the condenser to chassis.



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3. Disconnect the wires to the binary switch, located on the receiver drier.



4. Remove nut retaining ground wires to bolt, and remove all ground wires.



5. Remove screws retaining the tie straps (3qty) to the top of the condenser and disconnect all fans from wire assembly.



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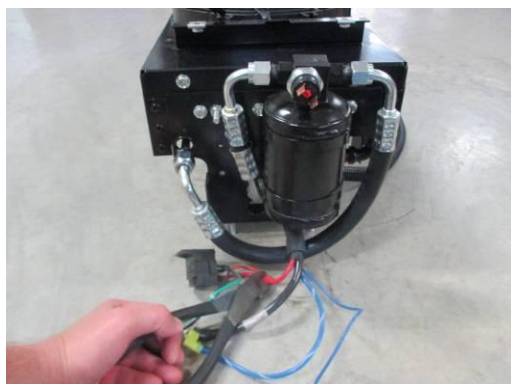
6. Cut Green wire inserted into relay base mount, and remove wire assembly from condenser.



7. Remove relay from base mount connector. Remove screw retaining base mount connector to condenser.



8. Cut Red and Orange/Black wires inserted into base mount, and remove wire assembly from unit.



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9. Cut-off 2-position connector from fans directly behind connectors, strip wires, crimp new terminals to wires, insert into connector (black wire is inserted into position #1 and blue or red wire is inserted into position #2), and insert wedge lock into connector.



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10. Route new wire harness through condenser mounting foot, bushing may be removed from mounting foot for ease of routing, then reinstalled. Screw base mount sealed relay with wire harness to condenser mounting foot, using mounting hole directly above previously used mounting hole. Connect blue and blue/white wire to binary pressure switch on receiver drier.



11. Screw new tie straps (3 qty) to condenser in the same location that the old tie straps were removed. Connect new wire harness to fans and tighten the harness to the tie straps.



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12. Insert terminals into Deutsch 9-pin connector as follows:

Insert Black 6 gauge wire into position "R"

Insert Red 10 gauge wire into position "S"

Insert Blue/white 10 gauge wire into position "U"

Insert Orange/Black 14 gauge wire into position "Y"

Insert Blue 14 gauge wire into position "W"

Insert Plugs into all unused cavities positions "T, V, X, & Z"



13. Connect Deutsch 9-pin connector to chassis. Slide cover over condenser and tighten down with washers and bolts.

14. Verify operation of condenser, check fan operation and air flow.

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