



SPARTAN CHASSIS, INC.

TSB07-170-002A

June, 2007

Page 1 of 4

TECHNICAL SERVICE BULLETIN

SUBJECT: Engine - Rear Isolators

Bulletin #TSB07-170-002 is superseded by bulletin #TSB07-170-002A due to a correction of an illustration. Any vehicle repaired under bulletin #TSB07-170-002 will not require any additional work.

APPLIES TO: Certain Spartan Firetrucks Equipped with a Detroit Diesel Series 60 Engine, 96" Wide Cab and Korfund/VMC Engine Isolator Series LF3900 and LF3A1200.

CONDITION: Isolators separating

PLEASE READ THE ENTIRE BULLETIN BEFORE PROCEEDING WITH ANY WORK. CONTACT SPARTAN CHASSIS IF THERE ARE ANY CONCERNS WITH THE PROCEDURES CONTAINED IN THIS DOCUMENT

PART / SERVICE INFORMATION:

Labor Time: 6.0 hours per unit

<u>QTY.</u>	<u>Part Number</u>	<u>Description</u>
1	S-1847-001B	Kit – Rear Engine Isolator S60

Kit #S-1847-001B Contains:

<u>QTY.</u>	<u>Part Number</u>	<u>Description</u>
1	1284-AA1-001	Mount – Eng. RR Frame LH'07
1	1285-AA1-001	Mount – Eng. RR Trans LH'07
1	1286-AA1-001	Mount – Eng. RR Frm RH'07
1	1287-AA1-001	Mount – Eng. RR Trans RH'07
4	1278-AA1-004	Isolator – Bicone Style Barry Controls
12	10FW8B	Washer – 5/8 Flat Gr8 Blk.
4	0124-BB1-015	Washer – 2.88"x 0.66"x 0.19
4	10110450FH8B	Bolt-5/8-11X4.50 Lg Flg Gr8 Blk.
4	1011FLN8Y	Nut-5/8-11 Flg Lk Gr8 Blk.
12	M16200040H7B	Bolt-M16-2.00 X 40MM Lg Hex Gr7 Blk.
12	10110225FH8B	Bolt-5/8-11X 2.25 Lg Flg Gr8 Blk.

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



SPARTAN CHASSIS, INC.

TSB07-170-002A

June, 2007

Page 2 of 4

TECHNICAL SERVICE BULLETIN

Kit #S-1847-001B (Cont):

<u>QTY.</u>	<u>Part Number</u>	<u>Description</u>
12	1011FLN8Y	Nut-5/8-11 Flg Lk Gr8 Yel.
4	1278-AA1-002	Isolator-Bicone Style Barry Controls
1	S-1847	Drawing (Page 1 & 2)-Kit Rear Engine Isolator
1	TSB07-170-002A	Document Instructions
as required	Adhesive	Loctite® 242® Threadlocker

STEP-BY-STEP INSTRUCTIONS:

1. Observe all industry safety standards and secure vehicle for replacement of rear engine isolators.
2. Raise cab ensuring safety latch is in place.
3. Disconnect batteries.
4. Support engine and transmission at bell housing with floor jack.
5. Remove exhaust tube, retaining exhaust tube and hardware for reuse.
6. Unclamp wire harnesses and hoses from left side frame in area of rear motor mounts. Clear access to mounting hardware. Retaining clamp and hardware for reuse.
7. Remove isolators from each side of transmission. Properly dispose of isolators and hardware.
8. Remove mounts from each side of frame rail. Properly dispose of mounts and hardware.
9. Remove mounts from each side of transmission. Properly dispose of mounts and hardware.

NOTE: Take precautions to protect wiring harness and synflex tubing.

10. Refer to FIG. 3-1. Cut frame rail top left flange and right lower flange, left rail cutout has 1.00" inside radius, right rail cutout has 2.00" inside radius.

NOTE: Existing cut out on top left flange is to be increased. Thoroughly inspect all surrounding components for damage.

11. Grind cutouts smooth ensuring there are no notches. De-burr sharp corners and paint all bare surfaces.

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



SPARTAN CHASSIS, INC.

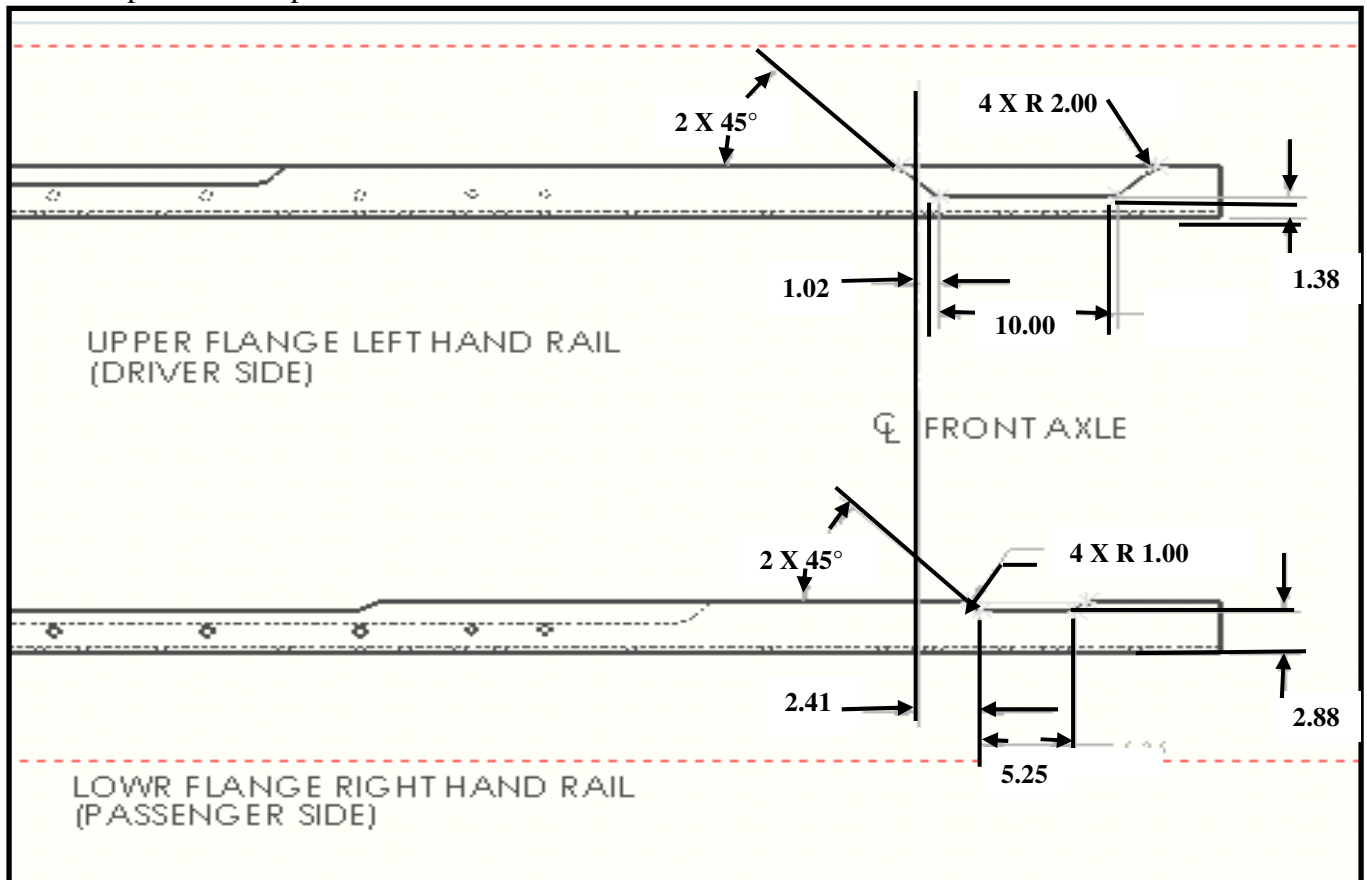
TSB07-170-002A

June, 2007

Page 3 of 4

TECHNICAL SERVICE BULLETIN

12. Refer to FIG. 4-1. Install new mount to passenger side frame rail using six (6) 5/8-11 X 2.25 flange head bolts supplied in the kit. Torque to 146 ft. lbs.
13. Refer to FIG. 4-1. Apply Loctite® 242® Threadlocker to the new M16-2.00 X 40 mm hex head bolts on the first five threads from the end. Install new mount to transmission using six (6) M16-2.00 X 40 mm hex head bolts and washers that you just applied threadlocker to. Torque to 182 ft. lbs.
14. Refer to FIG. 4-1. Place lower half of isolators on bottom of upper mounts. Secure isolator in place with tape.



RAIL FLANGE CUT OUTS

FIG. 3-1

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



SPARTAN CHASSIS, INC.

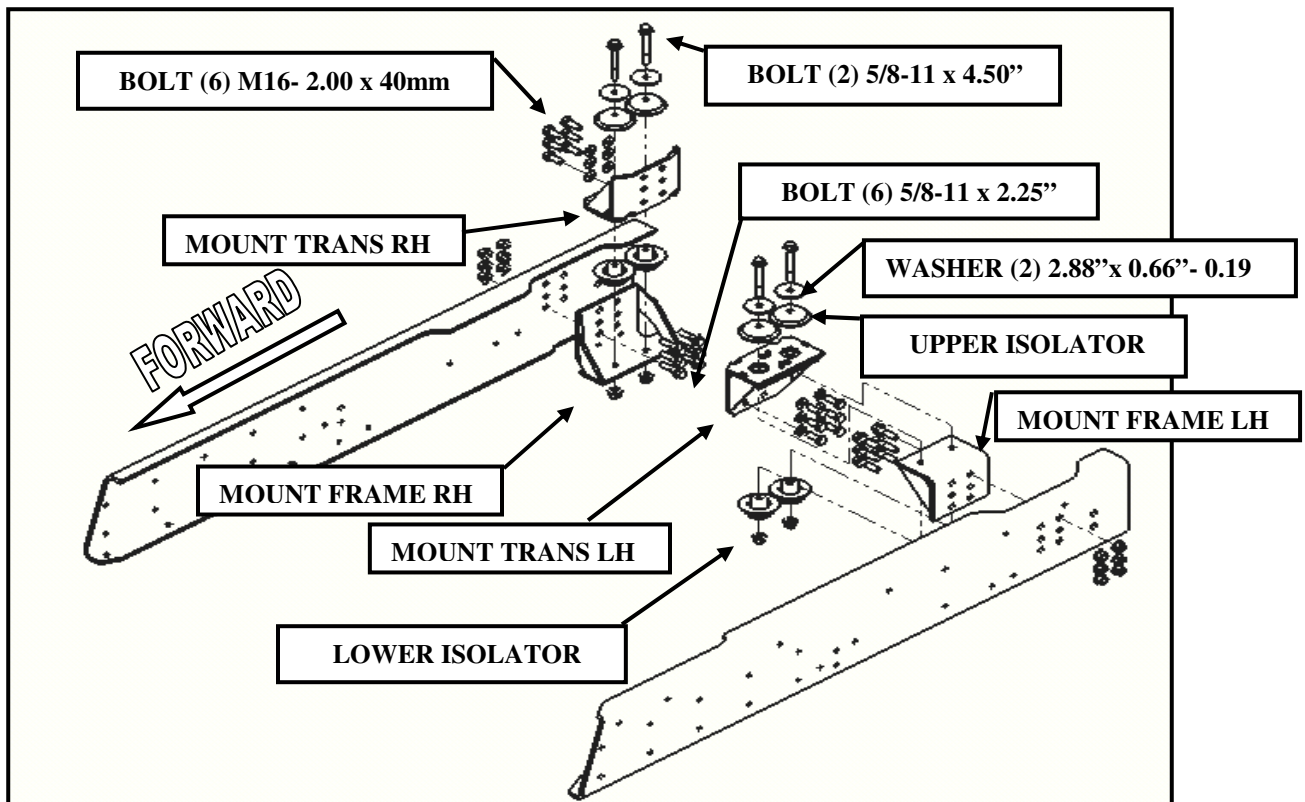
TSB07-170-002A

June, 2007

Page 4 of 4

TECHNICAL SERVICE BULLETIN

15. Refer to FIG. 4-1. Place upper half of isolators on top of upper mounts place large washers on top of isolators. Insert two (2) 5/8-11 X 4.50 flange head bolts through washers and isolators.
16. Refer to FIG. 4-1. Lower and align isolators half until fully seated into mounts and install nuts. Torque to 238 ft. lbs.
17. Repeat steps 11 and 16 for opposite side.
18. Reinstall clamp holding wiring harnesses and hoses.
19. Reinstall exhaust tube and remove jack.
20. Reconnect batteries and lower cab.



ISOLATOR & MOUNT ASSEMBLY, BOTH SIDES SHOWN

FIG. 4-1

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