



INSTRUCTION TO SERVICE

ITS: 5256	
SECTION:	219 Engine and Transmission
WRITTEN BY:	Mike Pearson
SUBJECT:	Replace ISL B400 Gen 4 Transmission Mounts

ITS5256

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PROCEDURE:

1. Turn the main battery disconnect switch to the “OFF” position.
2. Raise coach in accordance with the New Flyer Service Manual.
3. Support the forward end of the transmission as close to the bell housing as possible and yet leave enough room to comfortably be able to remove the rear motor mount bracket mounting hardware, streetside and curbside.
4. For safety reasons, remove and replace the curbside rear motor mount bracket completely first.
5. Remove the bolts and washers (qty 2) mounting the muffler tank assy bracket to the motor mount bracket and set aside for reuse. Secure the muffler tank assy to prevent damage and/or interference when removing the motor mount bracket. This step is for the curbside only. See Figure 1.

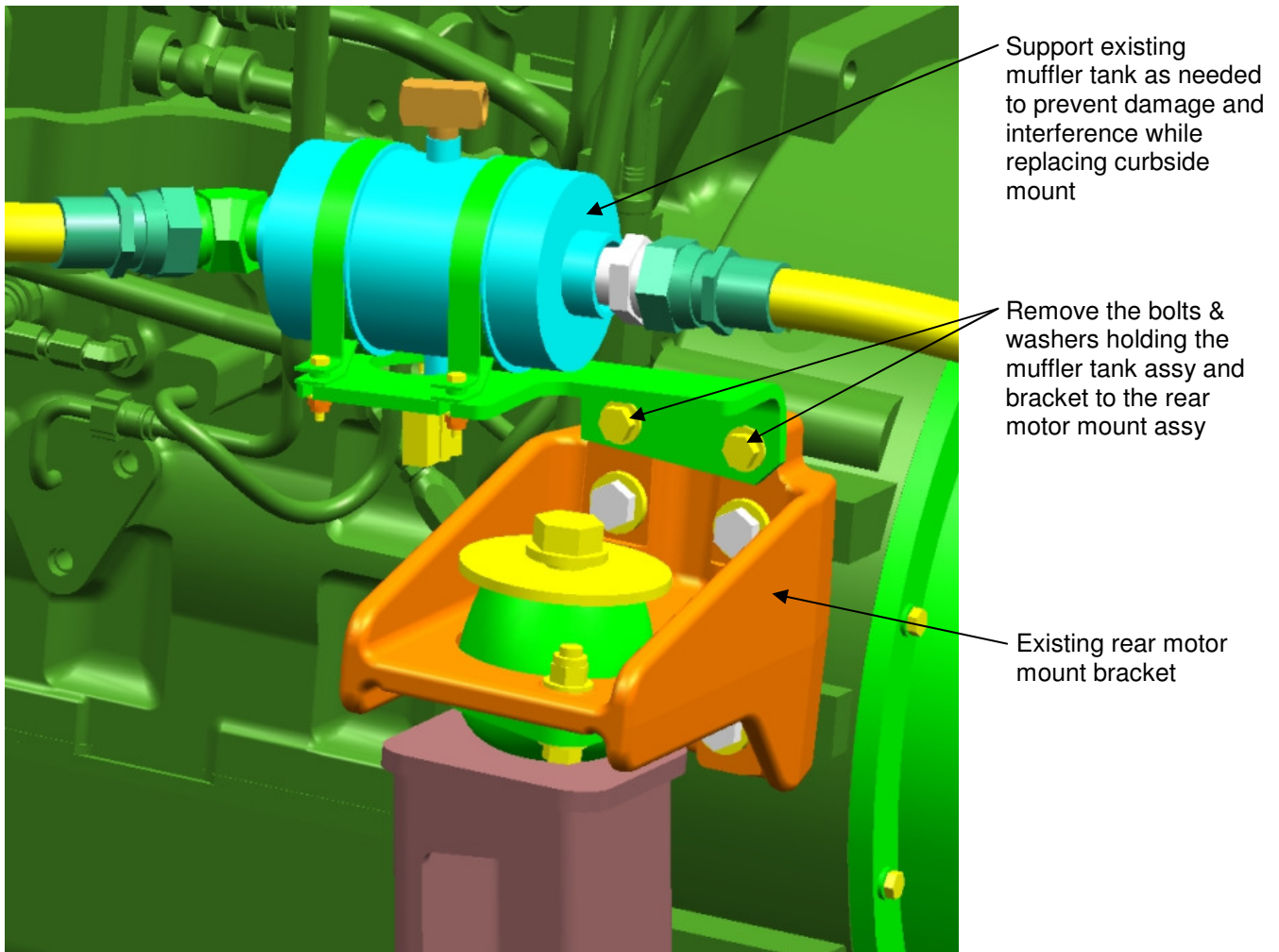


Figure 1: Muffler Tank & Motor Mount Bracket



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- Remove the bolts and washers securing the motor mount bracket to the bell housing (4 places) and the bolt holding the motor mount isolator to the chassis engine mount, discard hardware but retain the motor mount bracket and isolator, See Step 7. See figure 2.

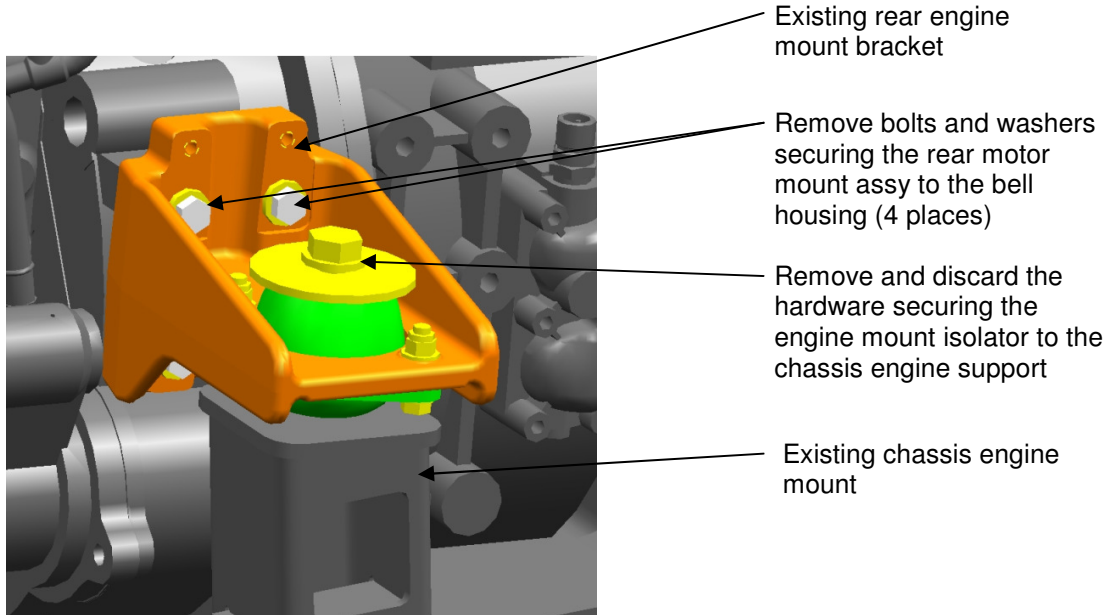


Figure 2: Motor Mount Bracket Assy

- Remove the engine isolator from the existing rear motor mount bracket and discard the hardware and motor mount bracket. Save the isolator for the Step 8. See Figure 3.
- Install existing engine isolator removed in Step 7 to new rear engine mount bracket assembly p/n 494696 using bolts (10B07028), washers (20W07000) and Nuts (40N07000), torque to 50 ft*lbs dry. See Figure 3.

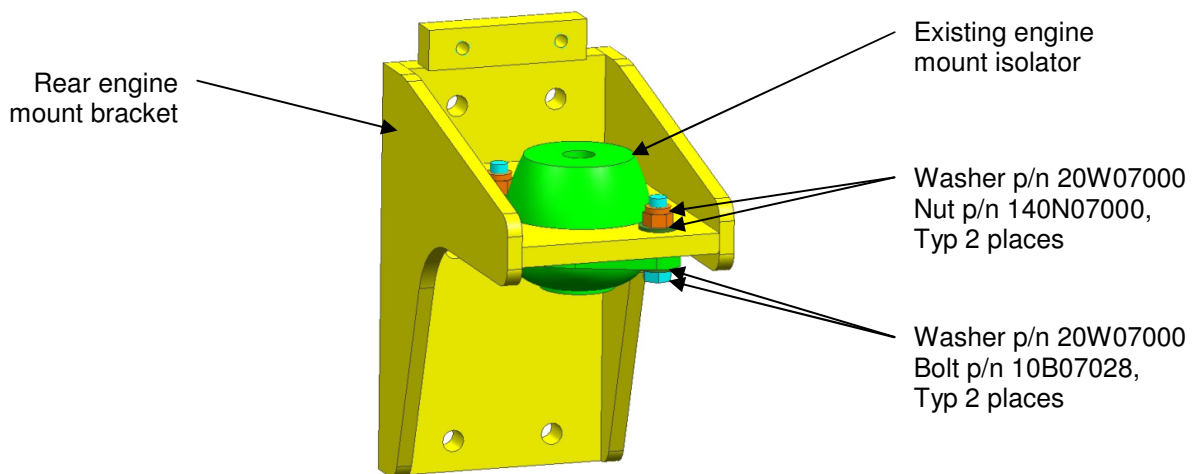


Figure 3: Engine Isolator Installation



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9. Install the new mount and isolator assembly to the bell housing using bolt p/n 059209 (qty 6), torque hardware to 70 ft*lbs dry. See Figure 4.
10. Secure the isolator to the chassis engine mount using washer p/n 045076, washer p/n 20W12000 (qty 2), bolt p/n 10B12088 and nut p/n 40N12000. Torque hardware to 250 ft*lbs dry. See Figure 4.
11. Using the bolts and washers removed in Step 5 mount the muffler tank assy bracket to the motor mount bracket. Torque hardware to 30 ft*lbs. This step is for the curbside only. See Figure 4.

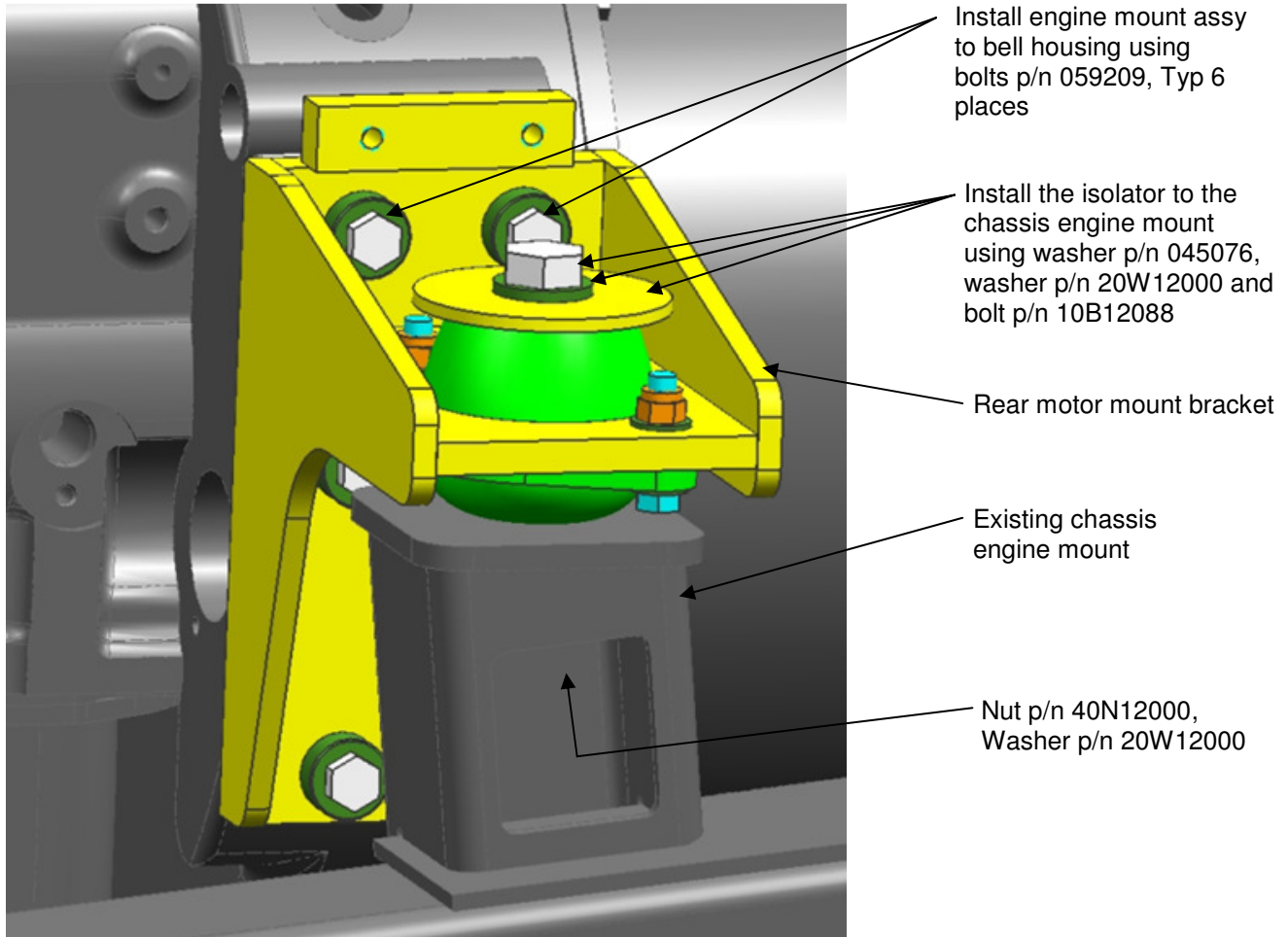


Figure 4: Motor Mount Bracket Assembly Installation

12. Repeat Steps 6 thru 11 for the streetside rear motor mount bracket.
13. If necessary, lower coach in accordance with the New Flyer Service Manual.
14. Turn the main battery disconnect switch to the "ON" position.



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LABOUR ESTIMATE

	Operation	Men	Hours	Labour Time M X HR
1	Replace ISL B400 Gen 4 Transmission Mounts	1	3.0	3.0

PARTS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	494696	Mount Assy – 6 Bolt	2	EA	
2	059209	Bolt – M12 x 1.75 x 55 CL10.9	6	EA	
3	10B07028	Bolt – Hex 7/16 unc x 1.75	2	EA	
4	10B12088	Bolt – Hex 3/4 -10 unc x 5.50	1	EA	
5	045076	Washer – Snubbing	1	EA	
6	20W07000	Washer – Hardened 7/16	4	EA	
7	20W12000	Washer – Flat 3/4	2	EA	
8	40N07000	Nut – Hex Lock 7/16-14	2	EA	
9	40N12000	Nut – Hex Lock 3/4 unc	1	EA	

SPECIAL TOOLS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	N/A	N/A	N/A	EA	