

MT-2

Manual Transaxle System

General Information

SPECIFICATION

Engine type		A2.5 VGT
Manual transaxle type		M5SR1
Gear ratio	1st	4.393
	2nd	2.306
	3rd	1.452
	4th	1.000
	5th	0.825
	Reverse	4.632
Final gear ratio		3.727
T/M oil capacity(ℓ) ※		3.5 liter

※ The quantity in the chart above is for the reference.
The actual filling quantity of the automatic transaxle fluid must be set according to 'INSPECTION' or 'REPLACEMENT' procedure of the automatic transaxle fluid.

Recommended transaxle oil			SAE 75W/85 or API GL - 4
Check & Replenishment			Every one year or every 15,000km
Replacement	Private use	Normal use	No service required
		Severe use(※)	Every 90,000 Km
	Business use		

※ Severe use(marked '※') is defined as:

1. Driving on rough road(bumpy road, gravel road, snowy road, unpaved road etc.).
2. Driving on mountain road, ascent/descent.
3. Repetition of short distance driving.
4. More than 50% operation in heavy city traffic during hot weather above 32°C(89.6°F).
5. Police car, Taxi, Commercial type operation or trailer towing, etc.

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SERVICE ADJUSTMENT PROCEDURE

Transmission oil inspection and replacement

1. After parking the vehicle on a plain, stop the engine.
2. After removing the oil filler plug and washer, inspect the manual transaxle fluid condition and quantity.
3. If the manual transaxle fluid is contaminated, drain it out by removing the oil drain plug.
4. Tighten the new oil drain plug and feed manual transaxle fluid to a proper level.

TORQUE:

58.83~63.74 Nm(6.0~6.5kgf.m, 43.39~47.01lb-ft)

Oil type: SAE75W/90 or API GL-4

Oil quantity:

3.2 liter

5. Retighten the oil filler plug with a new washer.

TORQUE:

58.83~63.74 Nm(6.0~6.5kgf.m, 43.39~47.01lb-ft)

Back up lamp switch inspection

1. Disconnect the back up lamp switch connector.
2. Inspect the continuity of the switch. When the shift lever is located in reverse range, it should be applied an electric current.
3. Replace the back up lamp switch, if necessary.



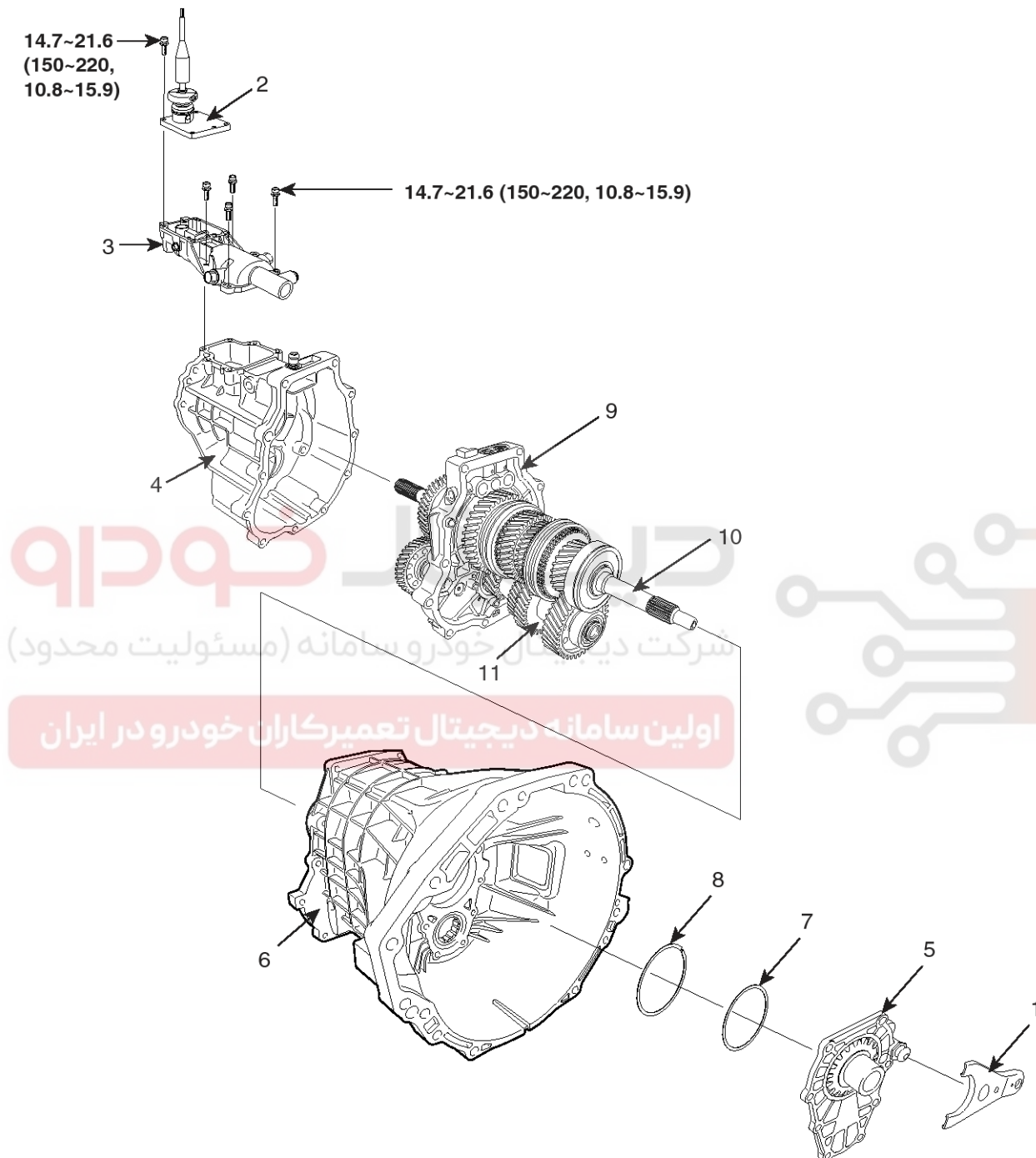
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Manual Transaxle

COMPONENTS



TORQUE : Nm (kgf.cm, lb-ft)

1. Clutch release fork
2. Control lever complete
3. Transmission control housing assembly
4. Transfer adapter
5. Front bearing retainer assembly
6. Transmission case

7. Front bearing retainer spacer
8. Snap ring
9. Intermediate plate
10. Main shaft assembly
11. Count shaft assembly

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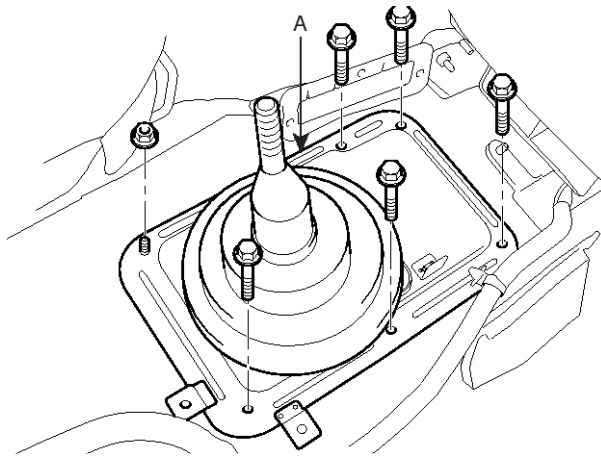
MT-5

EM24001F

SBLMT6002L

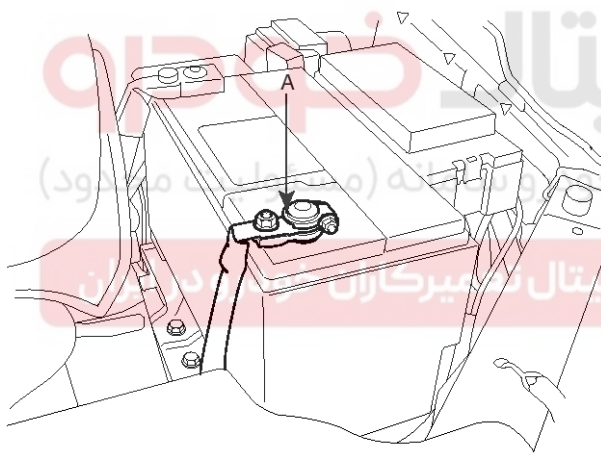
REMOVAL

1. Remove the console. (see BD group)
2. Remove the console cover dust assembly(A).



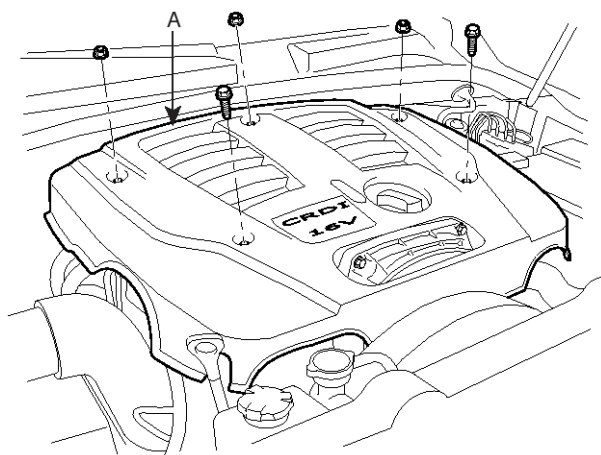
SBLMT6009L

3. Remove the battery (-) terminal(A).

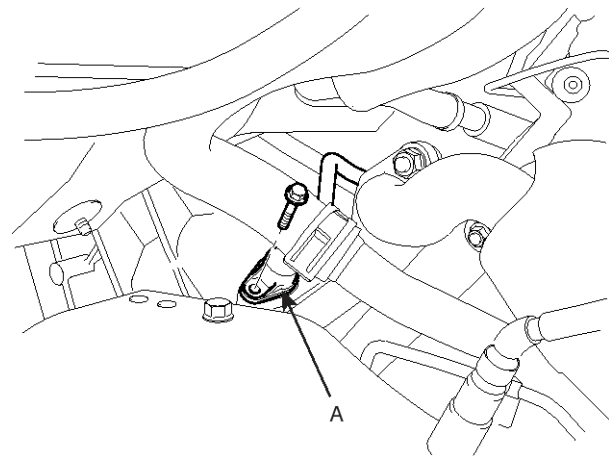


SBLMT6001L

4. Remove the engine cover(A).

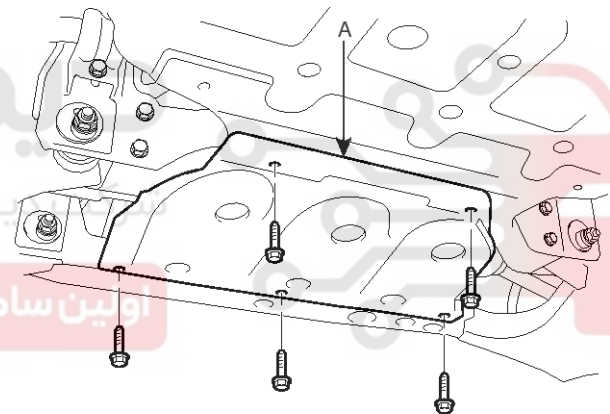


5. Remove the CKP sensor(A).



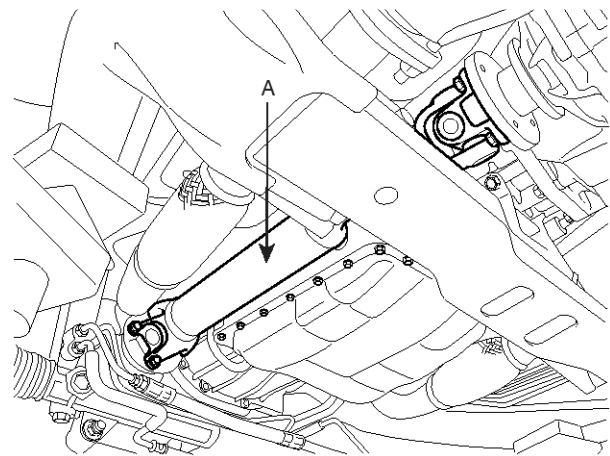
SBLMT6003L

6. Remove the under cover(A).



SBLMT6004L

7. Remove the front propeller shaft(A). (4WD)

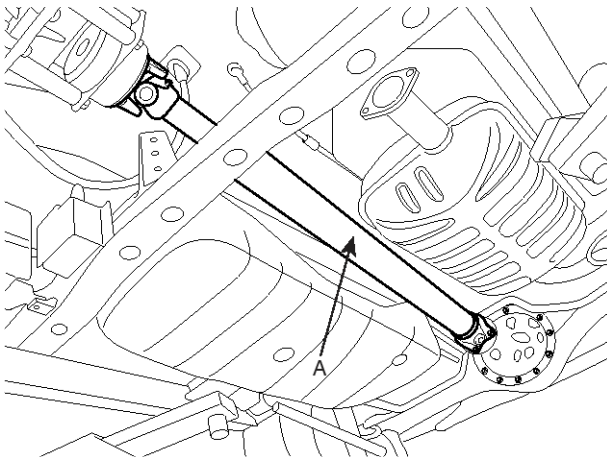


SBLAT6007L

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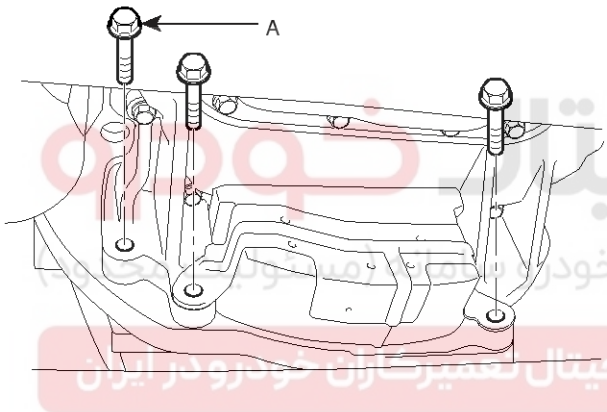
Manual Transaxle System

8. Remove the rear propeller shaft(A).



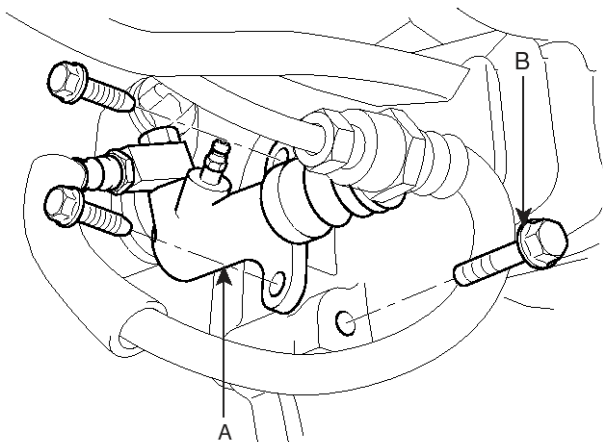
SBLAT6009L

9. Remove the transmission lower mounting bolts(A).



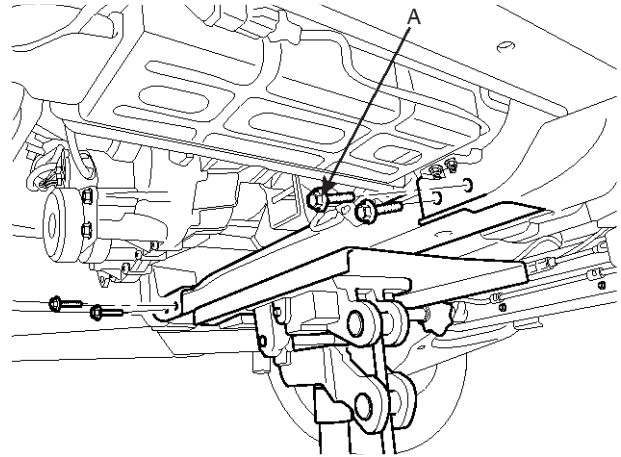
SBLMT6005L

10. Remove the clutch release cylinder(A) and transmission mounting bolt(B).



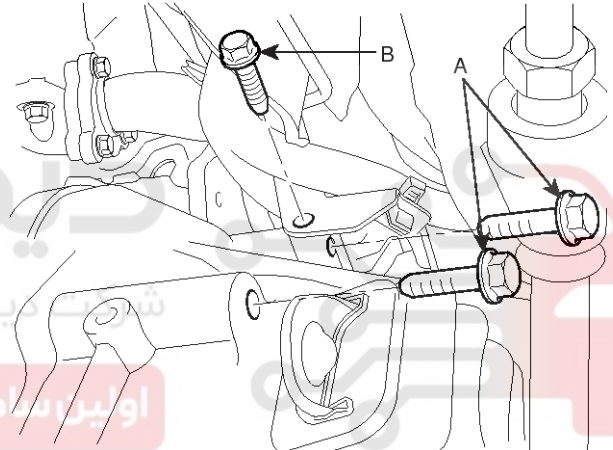
SBLMT6007L

11. Remove the mounting bolts(A) supporting the transmission with a jack.



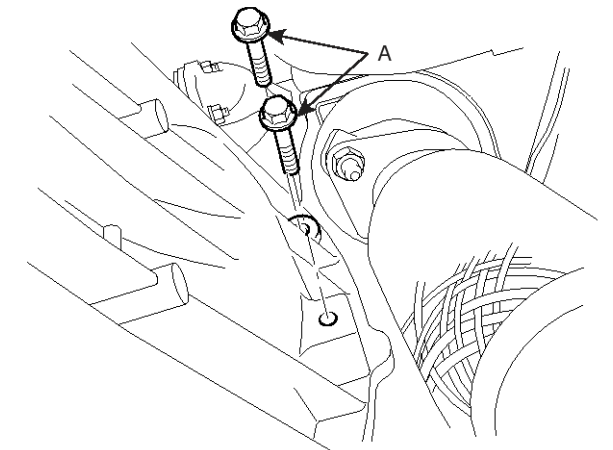
SBLAT6018L

12. Remove the starter motor mounting bolts(A) and wire harness mounting bolt(B).



SBLMT6008L

13. Remove the transmission mounting bolts(A).

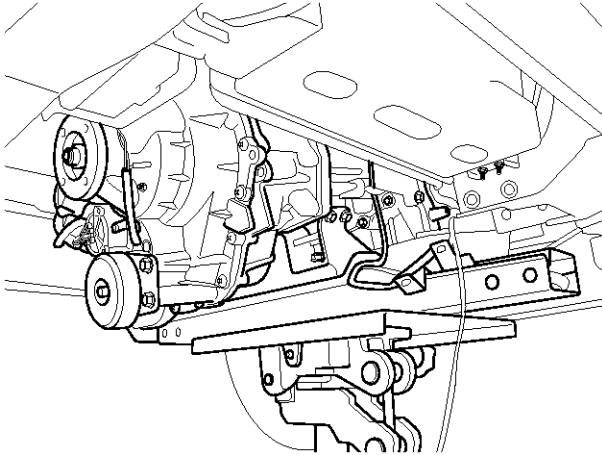


SBLMT6006L

14. Lower the jack slightly to make easy to remove the related connector and bolts on the upper part of transmission.

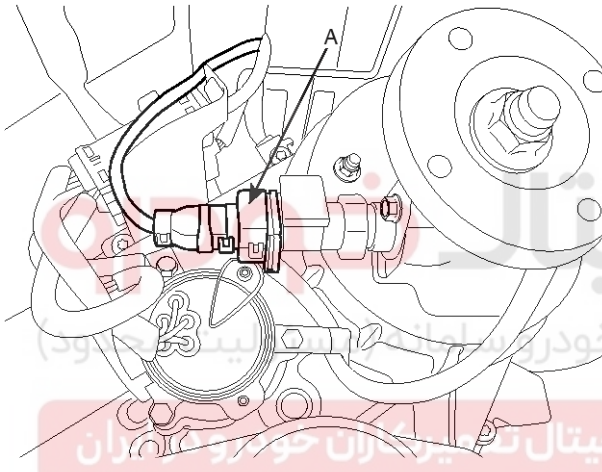
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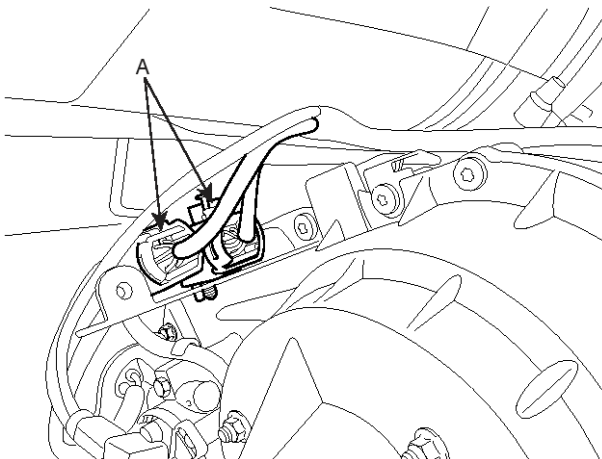
SBLAT6019L

15. Remove the vehicle speed sensor connector(A).



SBLAT6022L

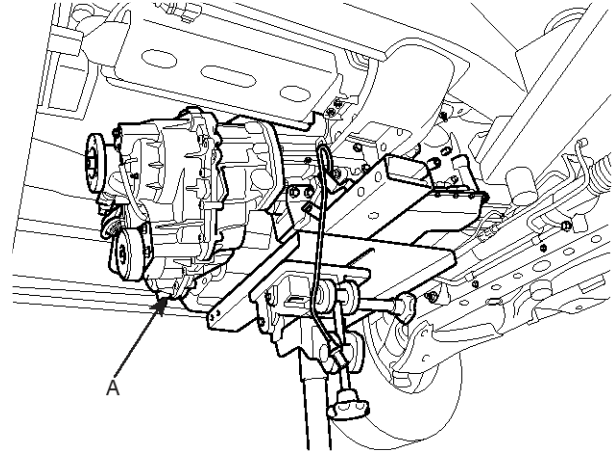
16. Remove the transfer case connectors(A). (4WD)



SBLAT6023L

17. Remove the transmission upper mounting bolts.

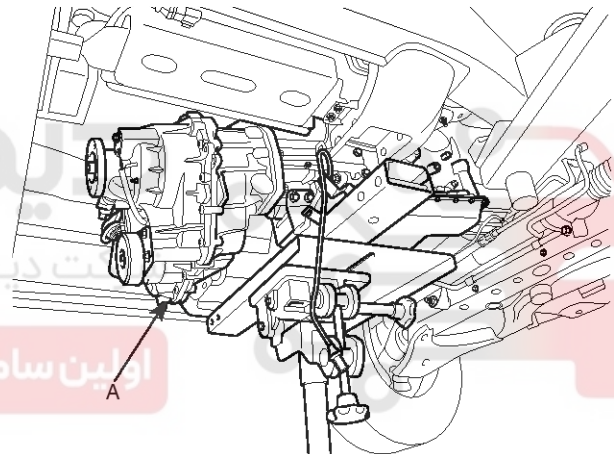
18. Remove the transmission assembly(A).



SBLAT6021L

INSTALLATION

1. Lowering the vehicle or lifting up a jack, install the transmission assembly(A/B).



SBLAT6021L

2. Tighten the transmission mounting bolts.

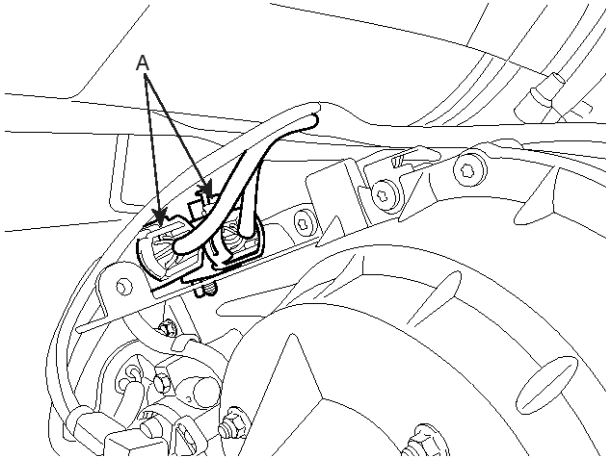
TORQUE

42.16~53.93Nm (4.3~5.5 kgf.m, 31.1~39.78 lb-ft)

3. Install the transfer case connectors(A). (4WD)

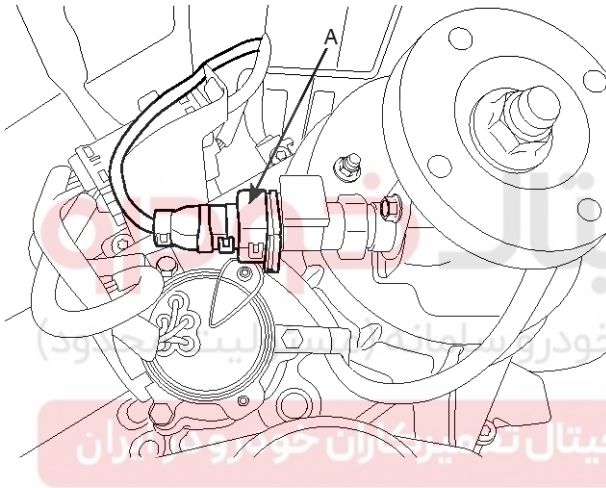
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SBLAT6023L

4. Install the vehicle speed sensor connector(A).

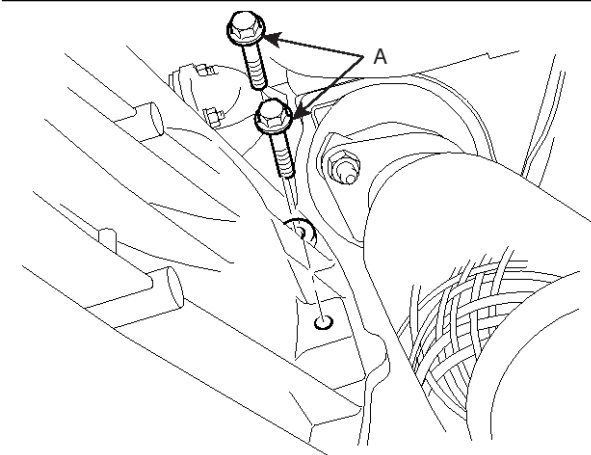


SBLAT6022L

5. Install the transmission mounting bolts(A).

TORQUE

A: 42.16~53.93Nm (4.3~5.5 kgf.m, 31.1~39.78 lb-ft)



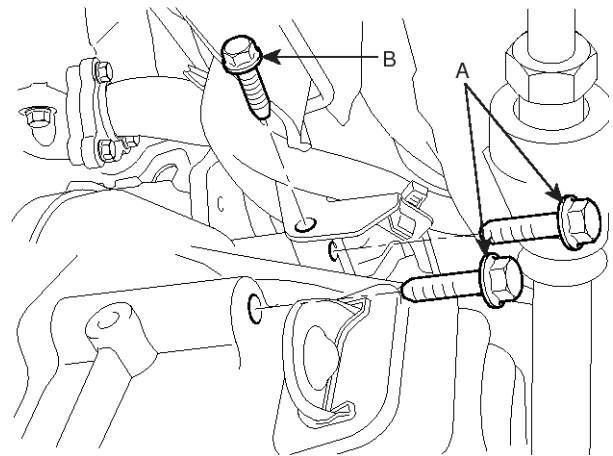
SBLMT6006L

6. Install the starter motor mounting bolts(A) and wire

harness mounting bolt(B).

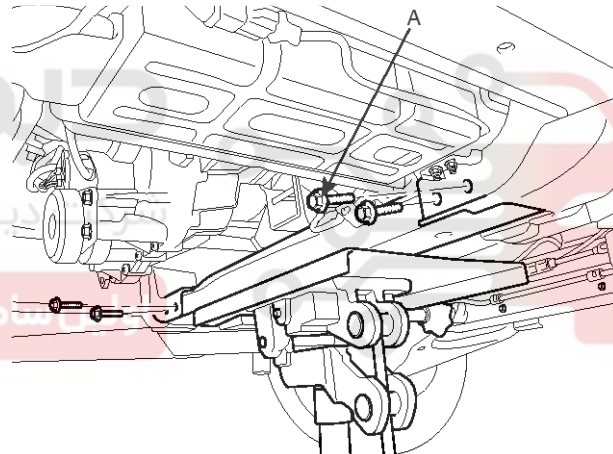
TORQUE

A: 49~63.74Nm (5.0~6.5 kgf.m, 36.16~47 lb-ft)



SBLMT6008L

7. Install the crossmember mounting bolts(A).



SBLAT6018L

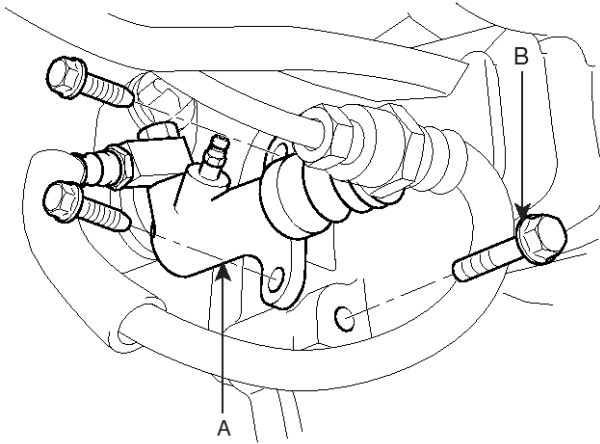
8. Install the clutch release cylindre(A) and transmission mounting bilt(B).

TORQUE :

B: 42.16~53.93Nm (4.3~5.5 kgf.m, 31.1~39.78 lb-ft)

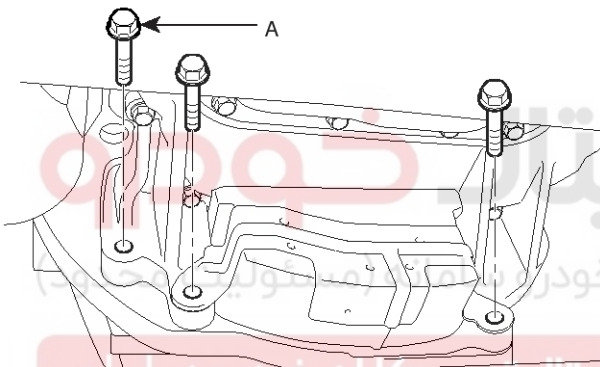
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SBLMT6007L

9. Install the Tighten the transaxle lower mounting bolts(A).

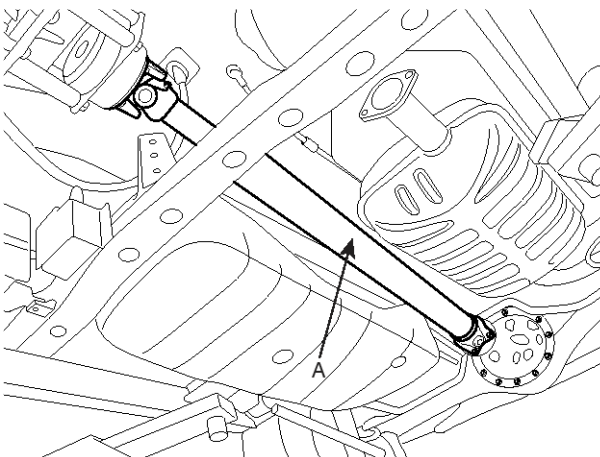


SBLMT6005L

10. Install the rear propeller shaft(A).

TORQUE :

58.83~68.64Nm (6~7 kgf.m, 43.39~50.63 lb-ft)

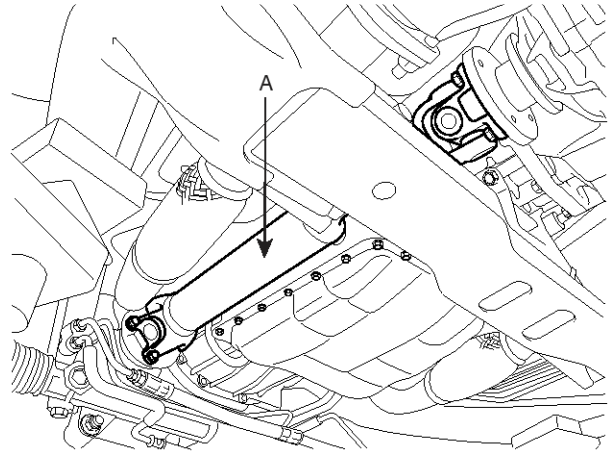


SBLAT6009L

11. Install the front propeller shaft(A). (4WD)

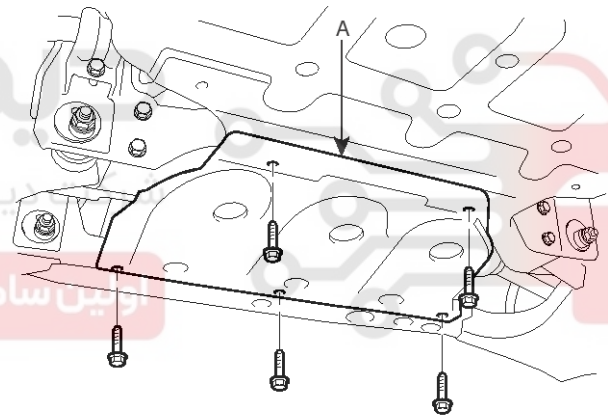
TORQUE :

58.83~68.64Nm (6~7 kgf.m, 43.39~50.63 lb-ft)



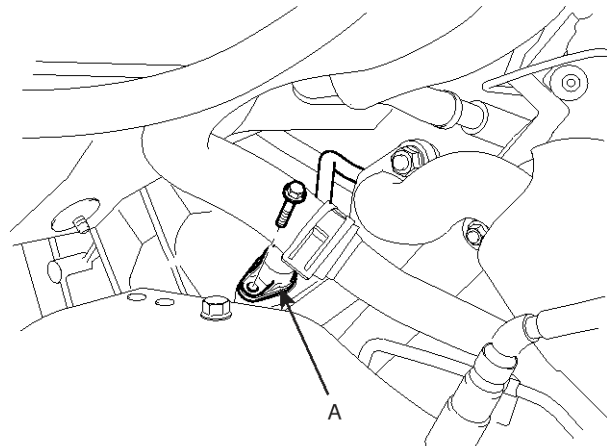
SBLAT6007L

12. Install the under cover(A).



SBLMT6004L

13. Install the CKP sensor(A).

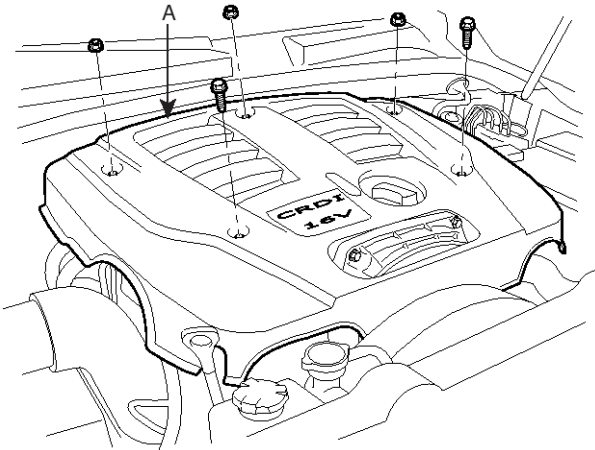


SBLMT6003L

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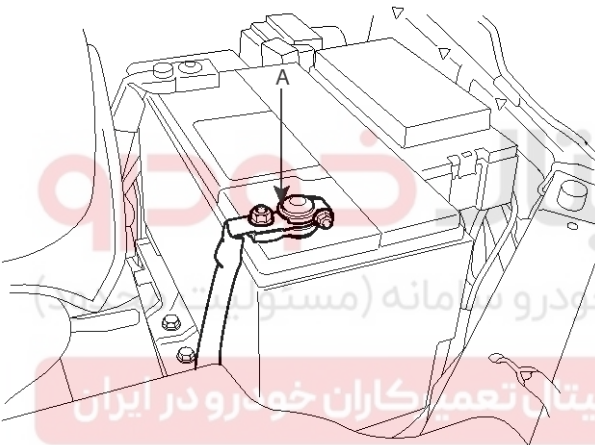
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14. Install the engine cover(A).



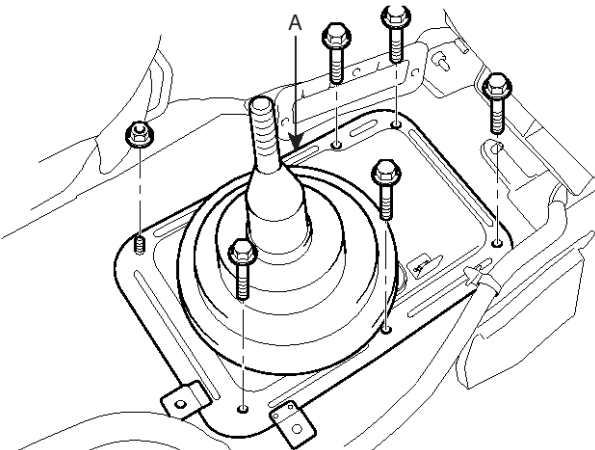
SBLMT6002L

15. Install the battery (-) terminal(A).



SBLMT6001L

16. Install the console cover dust assembly.



SBLMT6009L

17. Install the console. (see BD group)