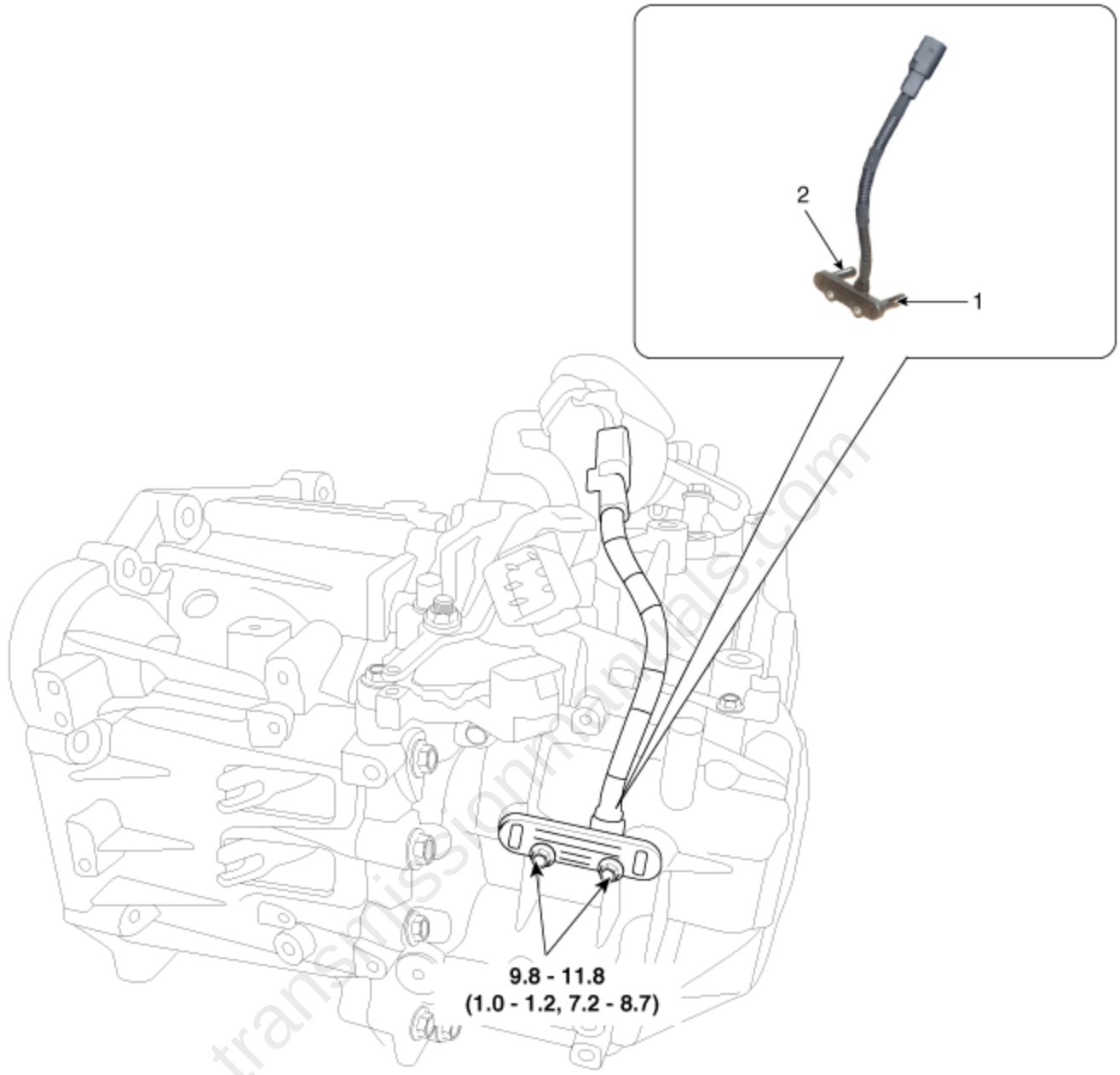
Dual Clutch Transmission Control System / Input Speed Sensor 2

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Components and components location

Component Location



Torque: N·m (kgf·m, lb·ft)

1. Input shaft speed sensor 1 (Odd)
2. Input shaft speed sensor 2 (Even)

Specifications

Specification

Item	Specification

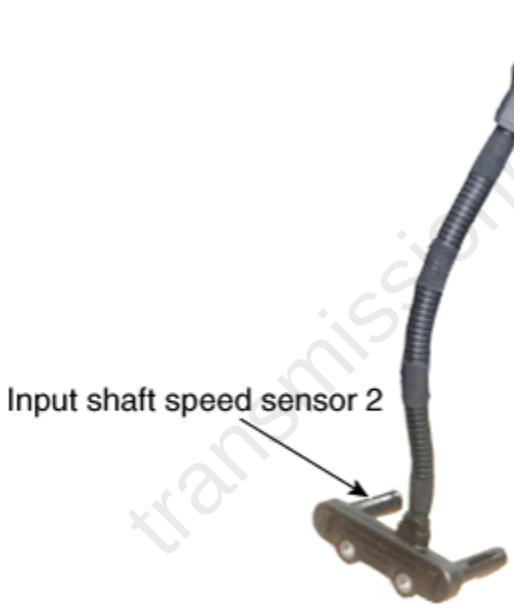
Type	Hall effect sensor
Operating condition	-40 to 302°F(-40 to 150°C)
Output signal	High: 11.8 - 16.8 mA
	Low: 5.9 - 8.4 mA

Description and operation

Description

- The input shaft speed sensor is important in that it detects the input shaft RPM and sends this information to the Transmission Control Module (TCM).

- This data is necessary for all operations including feedback control, gear shift control and failure detection of other sensors.

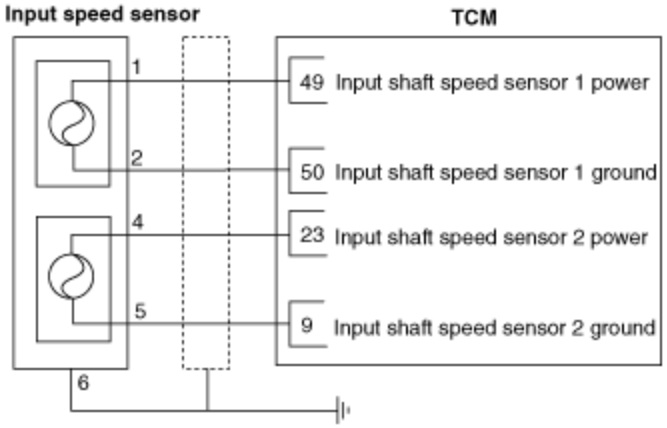


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Schematic diagrams

Circuit Diagram

[Circuit Diagram]



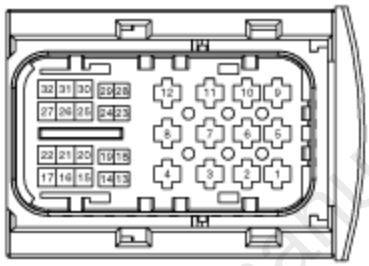
[Connection Information]

Terminal	Connected to	Function
1	TCM(49)	Input shaft speed sensor 1 power
2	TCM(50)	nput shaft speed sensor 1 ground
3	-	-
4	TCM(23)	Input shaft speed sensor 2 power
5	TCM(9)	Input shaft speed sensor 2 ground
6	Sensor ground	Sensor Shield

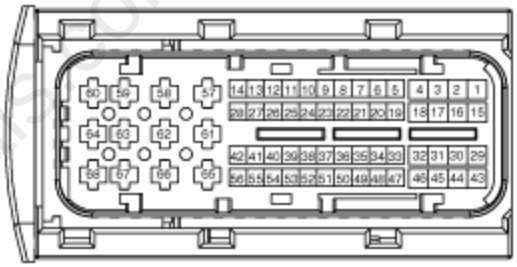
[Harness Connector]



Input shaft speed sensor connector



Connector [A] TCM



Connector [B] TCM

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Repair procedures

Removal

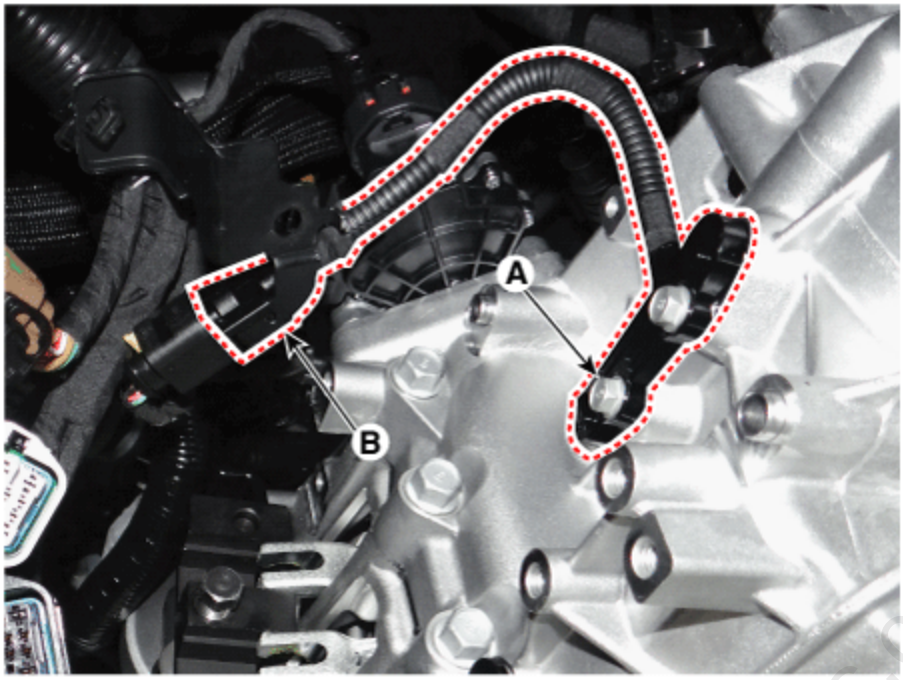
1. Remove the clutch actuator.

   (Refer to Dual Clutch Transmission Control System - "Clutch Actuator Assembly")

2. Remove the input speed sensor (A) by loosening the bolts after disconnecting the connector (B).

   Tightening torque :

   9.8 - 11.8 N·m (1.0 - 1.2 kgf·m, 7.2 - 8.7 lb·ft)



Installation

1. Install in the reverse order of removal.

NOTICE

Before installing the input speed sensor, check the assembled state of the O-rings (A) and apply gear oil to the surface of O-rings.



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Input Speed Sensor 1

Components and components location Component Location 1. Input shaft speed sensor 1 (Odd) 2. Input shaft speed sensor 2 (Even) Specification ...

Inhibitor Switch

Components and components location Component Location 1. Inhibitor switch 2. Manual control lever Specifications Specification ...

Other information:

Kia Forte 2019-2023 (BD) Owners Manual: Warning

If the vehicle leaves a lane, the lane marker you cross will blink on the LCD display. If the vehicle moves out of its lane because the steering torque for assistance is insufficient, the line indicator will blink. • If all the conditions to activate LKA are not satisfied, the syst ...

Kia Forte 2019-2023 (BD) Service Manual: Luggage Side Trim

Components and components location Component Location [4 Door] 1. Luggage side trim [5 Door] 1. Luggage side trim Repair procedures Replacement [4 Door] ...

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