

GROUP 22A

**MANUAL
TRANSAXLE**

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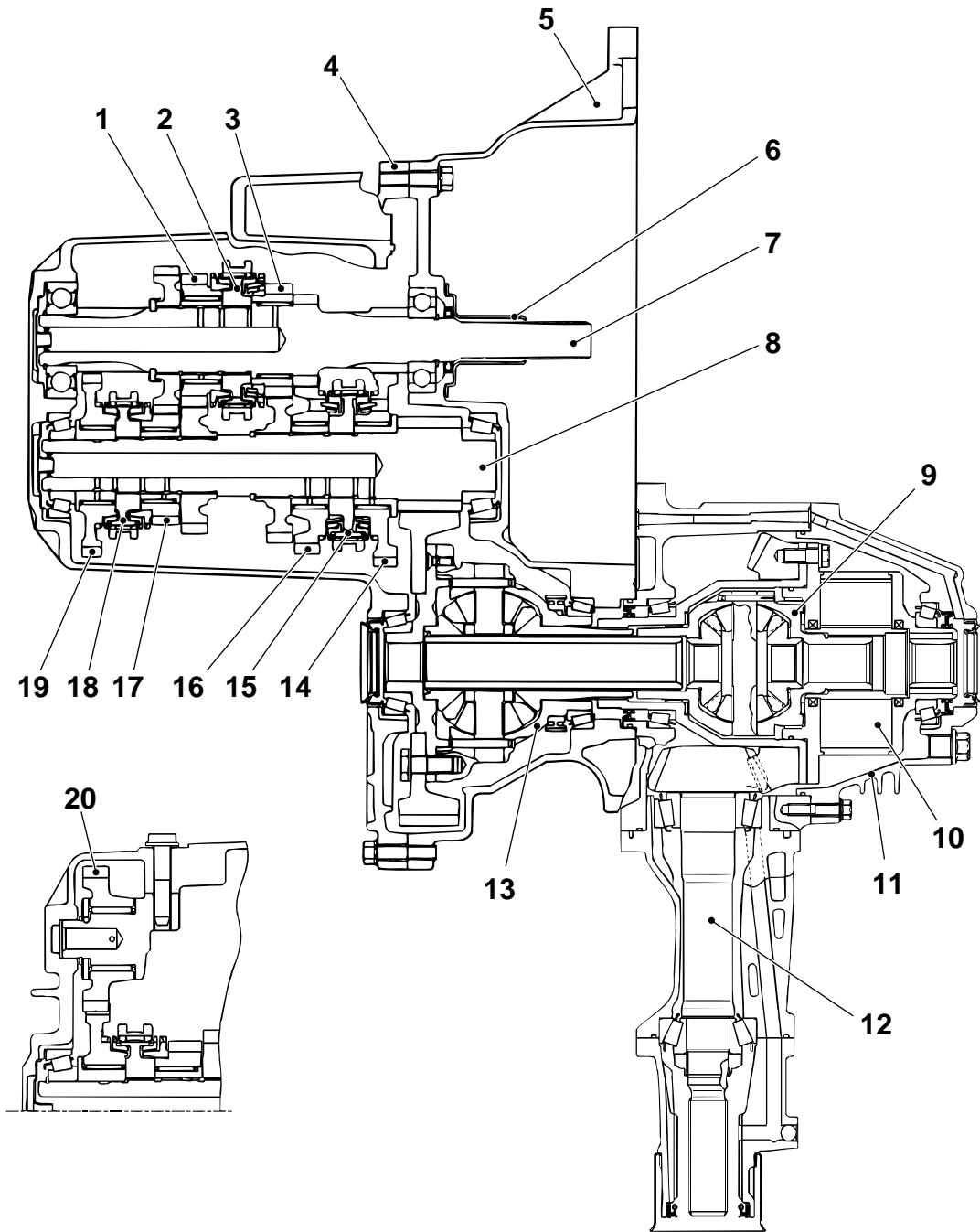
GENERAL DESCRIPTION

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The W5M5 manual transaxle has been adopted. This W5M5 transaxle is an AWD unit. In structure and operation, the transaxle is very similar to FWD model, however the gear ratio is appropriate for high torque engine with turbocharger and AWD.

SPECIFICATIONS

ITEM	SPECIFICATION	
Transaxle model	W5M51	
Engine model	4G63-DOHC-Intercooler Turbo	
Transaxle type	5-speed forward, 1-speed reverse constant mesh	
Transaxle gear ratio	1st	2.928
	2nd	1.950
	3rd	1.407
	4th	1.031
	5th	0.720
	Reverse	3.416
Final reduction ratio (Differential gear ratio)	4.529	
Speedometer gear ratio	31/36	
Transaxle oil	Specified lubricants	Gear oil API classification GL-4 SAE 75W-85W or 75W-90
	Quantity dm ³ (qt)	2.8 (2.9)
Transfer oil	Specified lubricants	Hypoid gear oil API classification GL-5 SAE90
	Quantity dm ³ (qt)	0.55 (0.58)

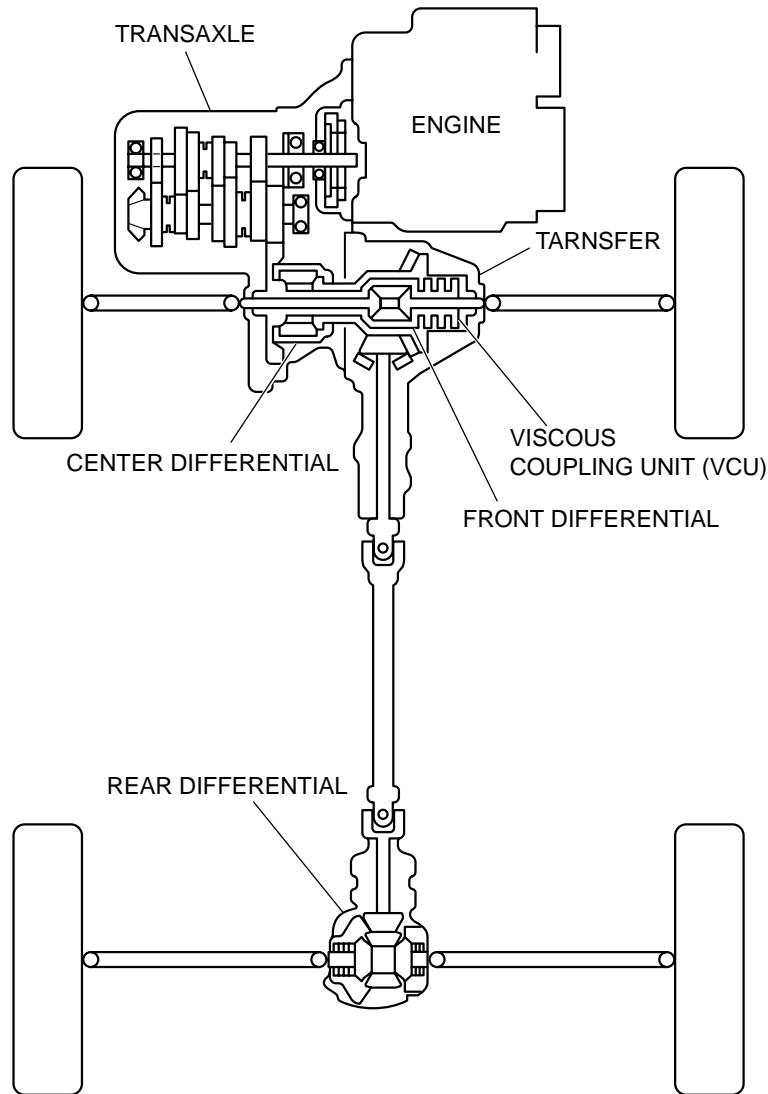


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1. 4TH SPEED GEAR	12. HYPOID PINION
2. 3RD – 4TH SPEED	13. CENTER DIFFERENTIAL
SYNCHRONIZER HUB	14. 1ST SPEED GEAR
3. 3RD SPEED GEAR	15. 1ST – 2ND SPEED
4. TRANSAXLE CASE	SYNCHRONIZER HUB
5. CLUTCH HOUSING	16. 2ND SPEED GEAR
6. REVERSE BEARING RETAINER	17. 5TH SPEED GEAR
7. INPUT SHAFT	18. 5TH – REVERSE SPEED
8. OUTPUT SHAFT	SYNCHRONIZER HUB
9. FRONT DIFFERENTIAL	19. REVERSE SPEED GEAR
10. VISCOS COUPLING UNIT (VCU)	20. REVERSE IDLER GEAR
11. TRANSFER CASE	

AWD SYSTEM

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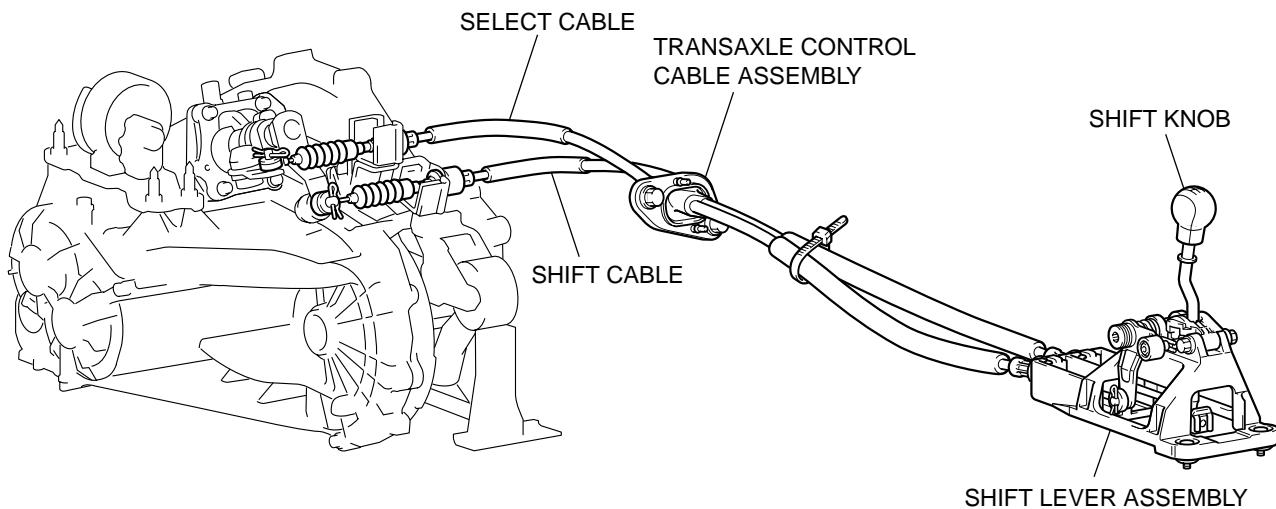
- The AWD system uses the center differential with limited slip device.
- For AWD models, the front differential is housed in the transfer. For FWD models, the center differential is housed in the transaxle in the place of the front differential for FWD.
- A viscous coupling unit (VCU) is used for the center differential limited slip device, and is located in the rear of the front differential.

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TRANSMISSION CONTROL

M2220002000096

CONSTRUCTION DIAGRAM



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- The shift lever is the spherical rotary shaft fulcrum type.
- The base bracket is made of synthetic resin for the weight reduction.
- The shift and select cable securing portions have been elastically supported to reduce noise and vibration.
- A mass-filled shift knob minimizes binding during shifting.

NOTES