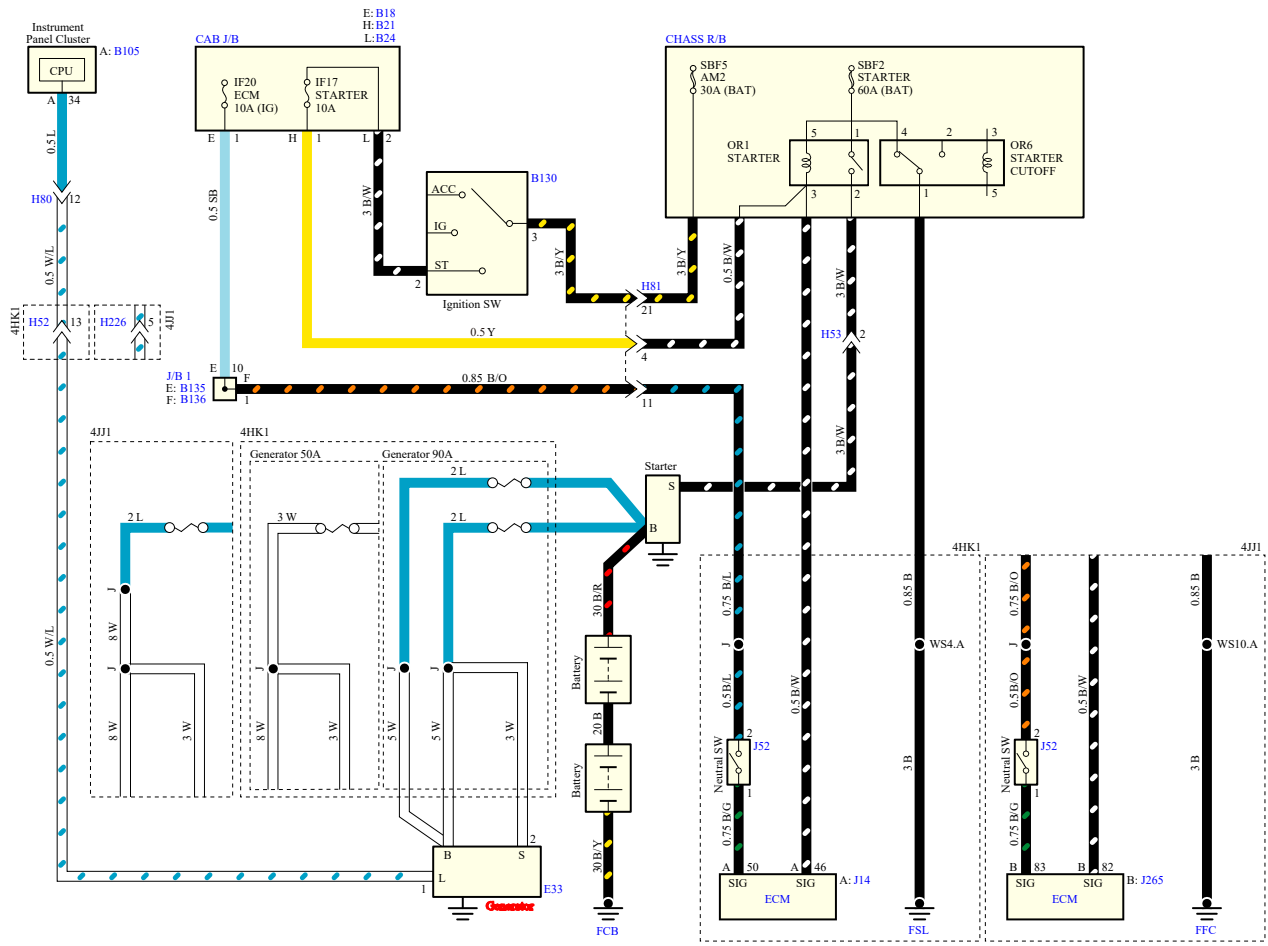
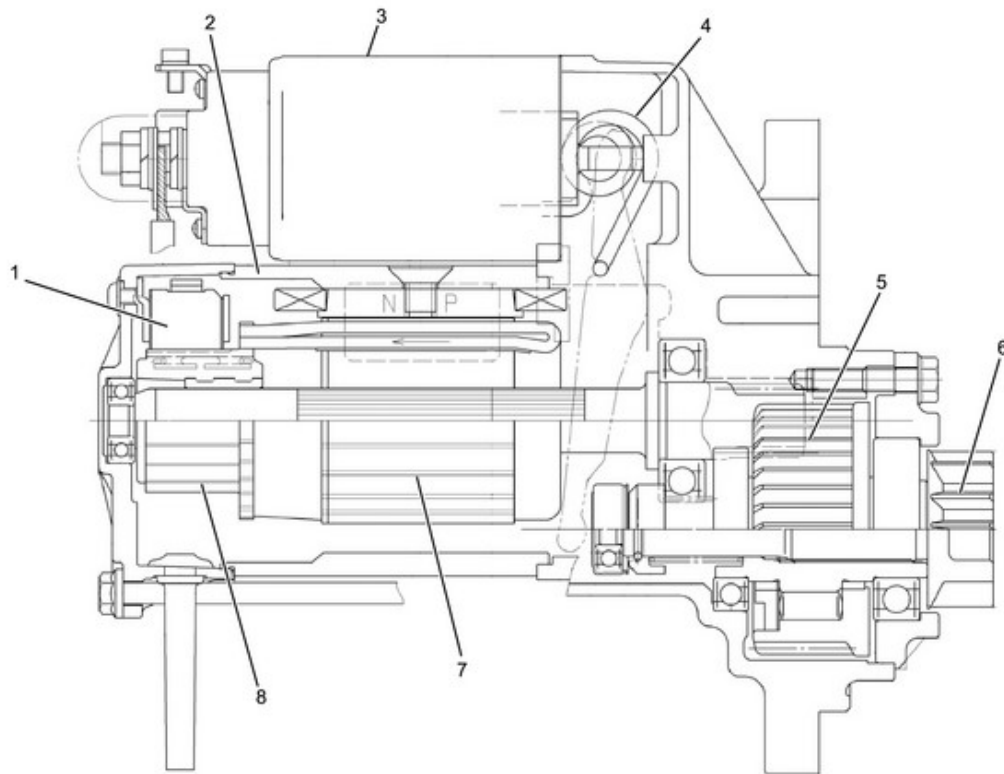


LHD Starter and Charging (4J1-TCC M/T Except 2021MY)



LHD Starter and Charging (M/T 2021MY)

OR6: Engine / Engine Control / Engine Control



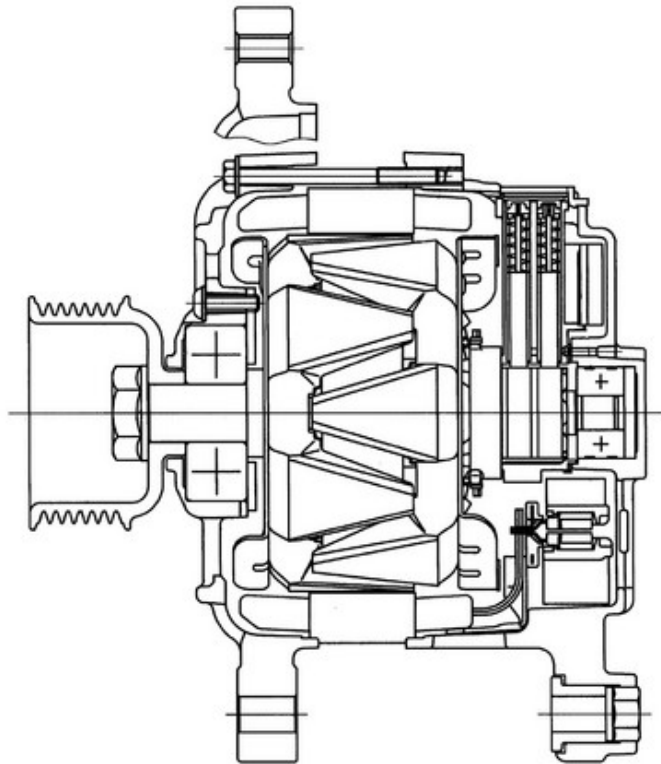
LNWE1JMF000301

1. Brush
2. Yoke
3. Magnetic switch
4. Torsion spring
5. Clutch
6. Pinion
7. Armature
8. Commutator

3. Generator

The charging system uses an IC integral regulator charging method. The main components are connected as shown in the diagram. The regulator is an integrated solid-state type regulator. It is built into the generator, and installed onto the rear end cover together with the brush holder.

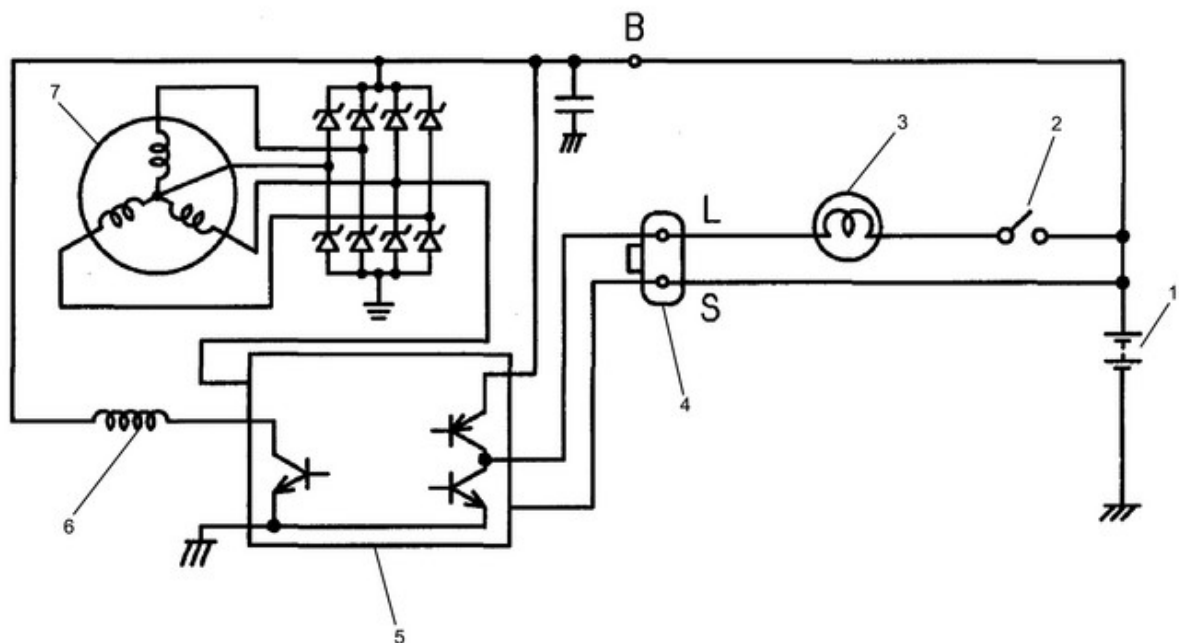
Generator maintenance such as adjusting the voltage is unnecessary. There are 8 diodes in the rectifier connected to the stator coil. They convert alternating current voltage into direct current voltage. The direct current voltage is connected to the generator output terminal.



LNWE1JMF000901

4. Multi-function IC regulator (trouble diagnosis function)

The trouble diagnosis is included to illuminate the charge light when the feed coil circuit is open and also when there is excessive voltage.



LNWE1JMF001201

1. Battery

2. Key switch
3. Charge light
4. Relay
5. IC regulator
6. Field coil
7. Stator coil

5. Warm-up system

The warm-up system is installed in order to reduce white smoke, improve engine warm-up performance, and improve interior heating performance.

The warm-up system is composed of the intake throttle valve, EGR valve, and exhaust throttle valve. The throttle valves are closed according to the engine coolant conditions. When the valves are closed, the exhaust pressure increases the engine load, and the thermal energy generated by the engine is released via the cylinder block into the engine coolant, improving engine warm-up performance and interior heating performance.

The intake throttle, exhaust throttle, and injectors are controlled to increase the fuel flow and raise the exhaust temperature. This raises the engine coolant temperature and promotes better engine warm-up performance and interior heating performance. The exhaust throttle valve is activated to increase the amount of combustion gas remaining inside the cylinder. This raises the temperature inside the combustion chamber and the exhaust temperature, which in turn reduces white smoke by reducing the amount of uncombusted gas that causes white smoke.

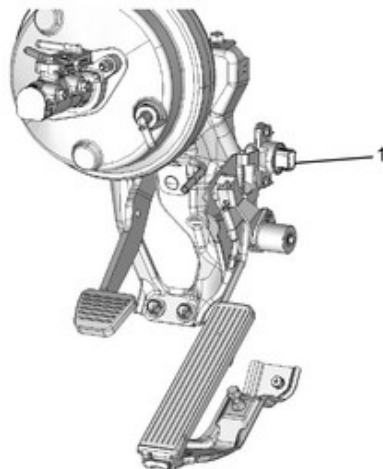
The control unit that controls the QWS is the ECM.

6. Glow control system

The glow control system facilitates engine start at low temperatures, and also reduces white smoke and noise immediately after engine start. If the ignition switch is turned ON, the ECM detects the engine coolant temperature based on the signal from the engine coolant temperature sensor. This can change the glow time to always start the engine under optimum conditions. Also, the after-glow function can stabilize the idling immediately after the engine is started. The ECM determines the glow time according to the coolant temperature, and activates the glow relay and glow indicator light.

15. Engine Controls Component Views

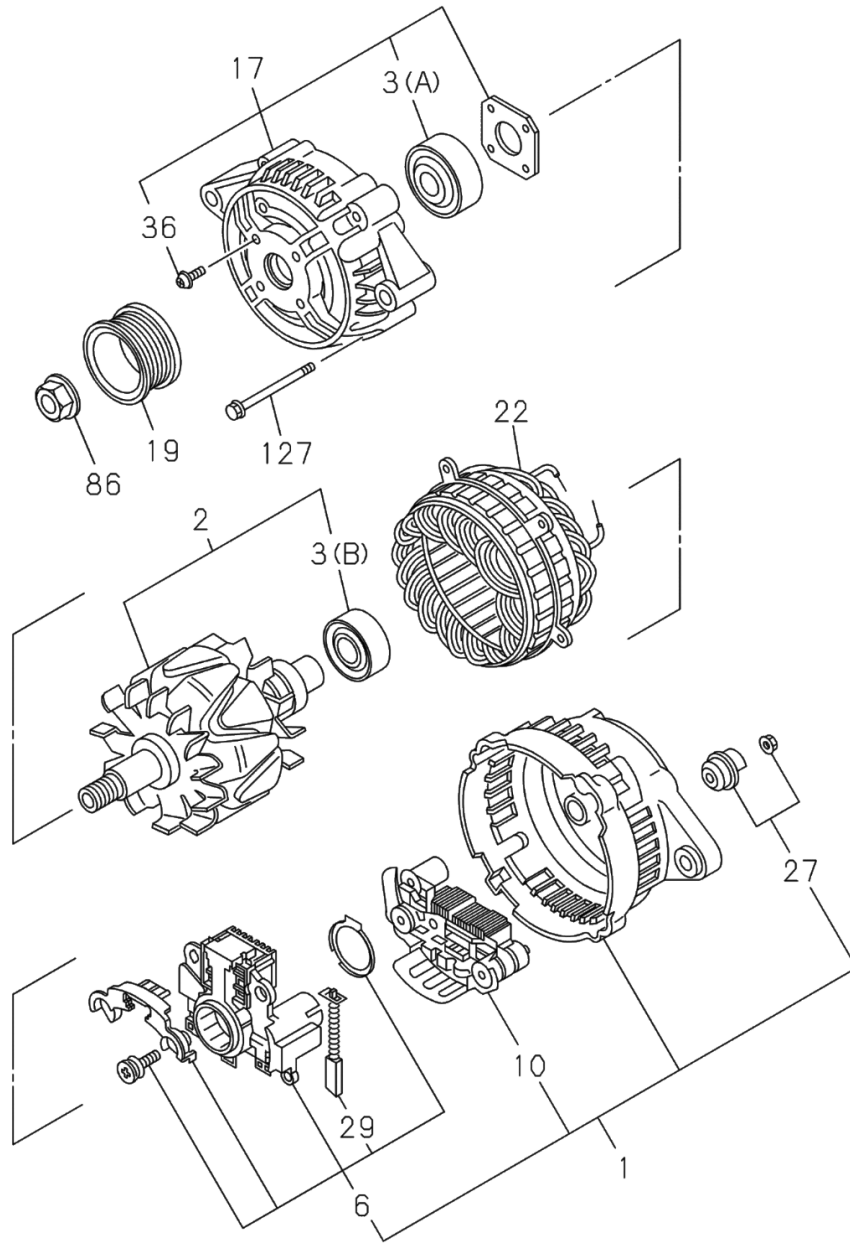
1. Engine component location diagram



LNWEZ0SH001701

1. Accelerator pedal position sensor

0-66A	GENERATOR
FIG-No.	



VIN: JAANMR85EK7100294

Напоминание

0-66A		GENERATOR			
FIG-No.					
KEY No.	Part Name				
	Part Number	Applied Date	L R	Qty	Restriction/Remarks
1	COVER ASM; RR,GEN				
	8-97480-987-0	-2111		01	
2	ROTOR; GEN				
	8-98273-816-0			01	
3	BEARING; ROTOR,GEN				
(A)	8-98273-814-0			01	(A)
(B)	8-98273-817-0			01	(B)
6	REGULATOR ASM; VOLTAGE,GEN				
	8-98273-825-0	-2111		01	
10	RECTIFIER; GEN				
	8-98273-823-0			01	
17	COVER ASM; FRT,GEN				
	8-98273-813-0			01	
19	PULLEY; GEN				
	8-98273-829-0	-1909		01	
22	STATOR; GEN				
	8-98273-819-0			01	
27	NUT; RECTIFIER,GEN				
	8-98273-824-0			01	
29	BRUSH; GEN				
	8-98273-826-0			01	
36	SCREW; FRT COVER				
	8-97178-136-0			01	
86	NUT SET; PULLEY,GEN				
	8-97145-327-0			01	
127	BOLT SET; GEN				
	8-97145-328-0			01	1 SET=4 PIECE

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Напоминание
