

## STARTING MOTOR OPERATION

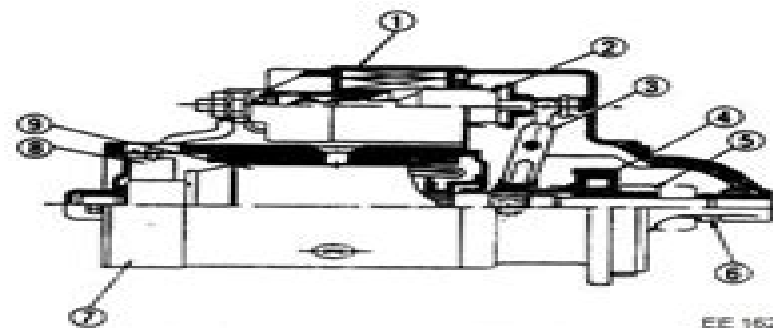
When the ignition switch is turned fully clockwise to the START position, battery current flows through 64 series" and "shunt" coils Of the solenoid, magnetizing the solenoid. The plunger is pulled into the solenoid so that it operates the shift lever to move the drive pinion into the fly-wheel ring gear. Then the solenoid switch contacts close after the drive pinion is partially engaged with the ring gear.

Closing of the solenoid switch contacts causes the motor to crank the engine and also cut out the "series" coil of the solenoid, the magnetic pull of the "shunt" coil being sufficient to hold the pinion in mesh after the shifting has been performed.

After the engine starts running, the driver releases the ignition key and it automatically returns to the ON position.

This breaks the solenoid circuit so that reverse current flows through the series coil, and the magnetic field builds up in the direction in which the plunger moves back. As this happens, the resultant force of the magnetic fields in the shunt coil and the series

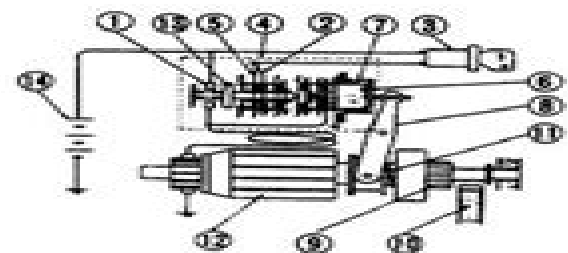
More positive meshing and demeshing of the pinion and the ring gear teeth are secured by means of the over-running clutch. The over-running clutch employs a shift lever to slide the pinion along the armature shaft, into or out of mesh with the ring gear teeth. The over-running clutch is designed to transmit driving torque from the motor armature to the ring gear, but permit the pinion to over-run the armature after the engine has started.



EE 162

- |                            |                  |
|----------------------------|------------------|
| 1 Magnetic switch assembly | 5 Pinion         |
| 2 Plunger                  | 6 Pinion stopper |
| 3 Shift lever              | 7 Yoke           |
| 4 Over-running clutch      | 8 Brush          |
|                            | 9 Armature       |

Fig. EE-8 Sectional view of starting motor



EE158

- |                      |                         |
|----------------------|-------------------------|
| 1 Stationary contact | 8 Shift lever           |
| 2 Series coil        | 9 Drive pinion          |
| 3 Ignition switch    | 10 Ring gear            |
| 4 Solenoid           | 11 Pinion sleeve spring |
| 5 Shunt coil         | 12 Armature             |
| 6 Plunger            | 13 Movable contactor    |
| 7 Return spring      | 14 Battery              |

Fig. EE-9 Starting motor circuit

# Forklift Nissan H20 Engine Manual

**Xiaolong Qi**



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