

STARTING MOTOR OPERATION

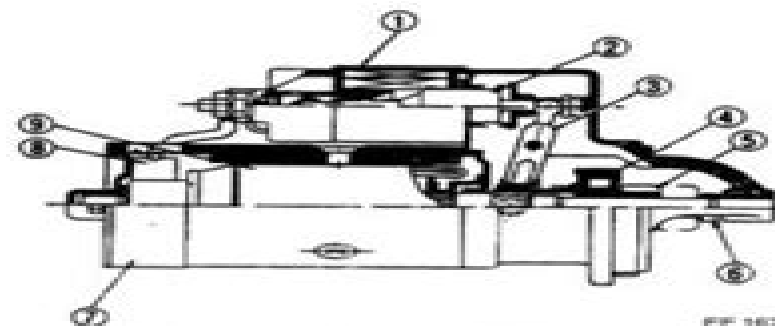
When the ignition switch is turned fully clockwise to the START position, battery current flows through 64 series- and "shunt" coils. Of the solenoid, magnetizing the solenoid. The plunger is pulled into the solenoid so that it operates the shift lever to move the drive pinion into the fly-wheel ring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

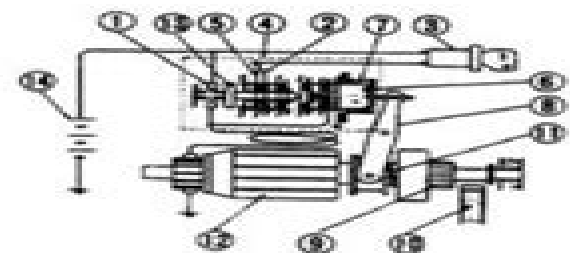
More positive meshing and demeshing of the pinion and the ring gear teeth are secured by means of the over-running clutch. The over-running clutch employs a shift lever to slide the pinion along the armature shaft, into or out of mesh with the ring gear teeth. The over-running clutch is designed to transmit 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

Komatsu Nissan H20 Engine Manual

LP Steffe



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Table of Contents Komatsu Nissan H20 Engine Manual

1. Understanding the eBook Komatsu Nissan H20 Engine Manual
 - The Rise of Digital Reading Komatsu Nissan H20 Engine Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Komatsu Nissan H20 Engine Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Komatsu Nissan H20 Engine Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Komatsu Nissan H20 Engine Manual
 - Personalized Recommendations
 - Komatsu Nissan H20 Engine Manual User Reviews and Ratings
 - Komatsu Nissan H20 Engine Manual and Bestseller Lists
5. Accessing Komatsu Nissan H20 Engine Manual Free and Paid eBooks
 - Komatsu Nissan H20 Engine Manual Public Domain eBooks
 - Komatsu Nissan H20 Engine Manual eBook Subscription Services
 - Komatsu Nissan H20 Engine Manual Budget-Friendly Options
6. Navigating Komatsu Nissan H20 Engine Manual eBook Formats

-
- ePub, PDF, MOBI, and More
 - Komatsu Nissan H20 Engine Manual Compatibility with Devices
 - Komatsu Nissan H20 Engine Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Komatsu Nissan H20 Engine Manual
 - Highlighting and Note-Taking Komatsu Nissan H20 Engine Manual
 - Interactive Elements Komatsu Nissan H20 Engine Manual
 8. Staying Engaged with Komatsu Nissan H20 Engine Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Komatsu Nissan H20 Engine Manual
 9. Balancing eBooks and Physical Books Komatsu Nissan H20 Engine Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Komatsu Nissan H20 Engine Manual
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Komatsu Nissan H20 Engine Manual
 - Setting Reading Goals Komatsu Nissan H20 Engine Manual
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Komatsu Nissan H20 Engine Manual
 - Fact-Checking eBook Content of Komatsu Nissan H20 Engine Manual
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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