

STARTING SYSTEM

1462-01

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Start System

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دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



STARTING SYSTEM**1462-01****GENERAL INFORMATION****1. SPECIFICATION**

Unit	Description	Specification
Start motor	Capacity	12V 1.4kw
	Engagement	Meshed type
	Rotating direction	Clockwise
	Solenoid operating voltage	Max. 8V
	Weight	2.5kg

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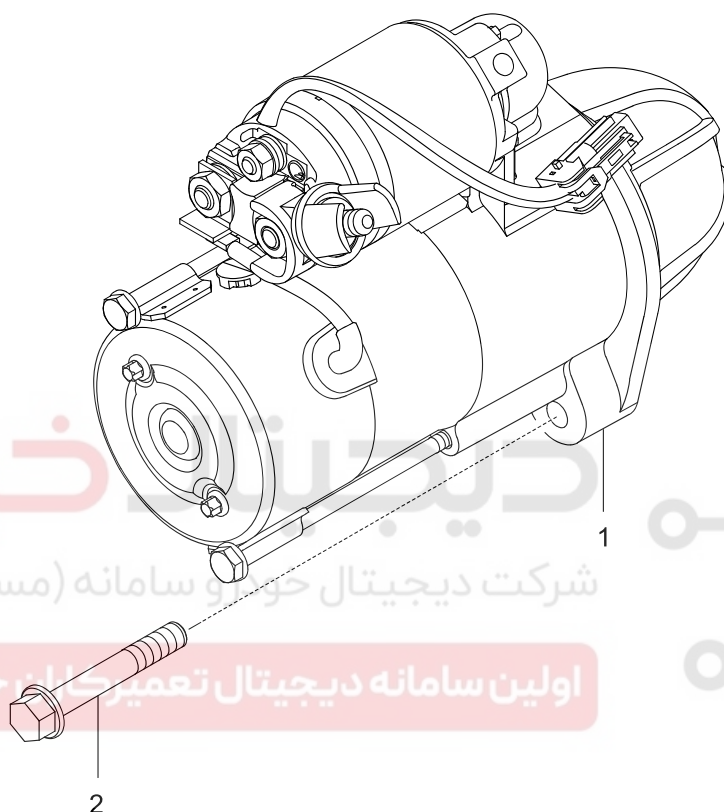
ENGINE
GENERALENGINE
ASSEMBLINTAKE
SYSTEMFUEL
SYSTEMEXHAUST
SYSTEMIGNITION
SYSTEMLUBRICAT
IONCOOLING
SYSTEMCHARGE
SYSTEMSTARTIN
GCRUISE
CONTROENGINE
CONTRO

Modification basis	
Application basis	
Affected VIN	

STARTING SYSTEM

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2. LAYOUT



1. Starter

2. Bolt

3. TROUBLESHOOTING

Problem	Possible Cause	Action
Engine will not crank	Low battery voltage	Charge or replace
	Loose, corroded or damaged battery cable	Repair or replace
	Faulty starter or open circuit	
	Faulty ignition switch or blown fuse	Repair or replace
	Poor engine ground	Repair
Engine cranks too slow	Low battery voltage	Charge or replace
	Loose, corroded or damaged battery cable	Repair or replace
	Faulty starter	
Starter does not stop	Faulty starter	Repair or replace
	Faulty ignition switch	Replace
Engine cranks normally, but does not start	Broken pinion gear or faulty starter	Replace the starter
	Broken flywheel ring gear	Replace
	Open circuit	Repair

دیجیتال خودرو (مسئولیت محدود)
شرکت دیجیتال خودرو سامانه

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Modification basis	
Application basis	
Affected VIN	

STARTING SYSTEM

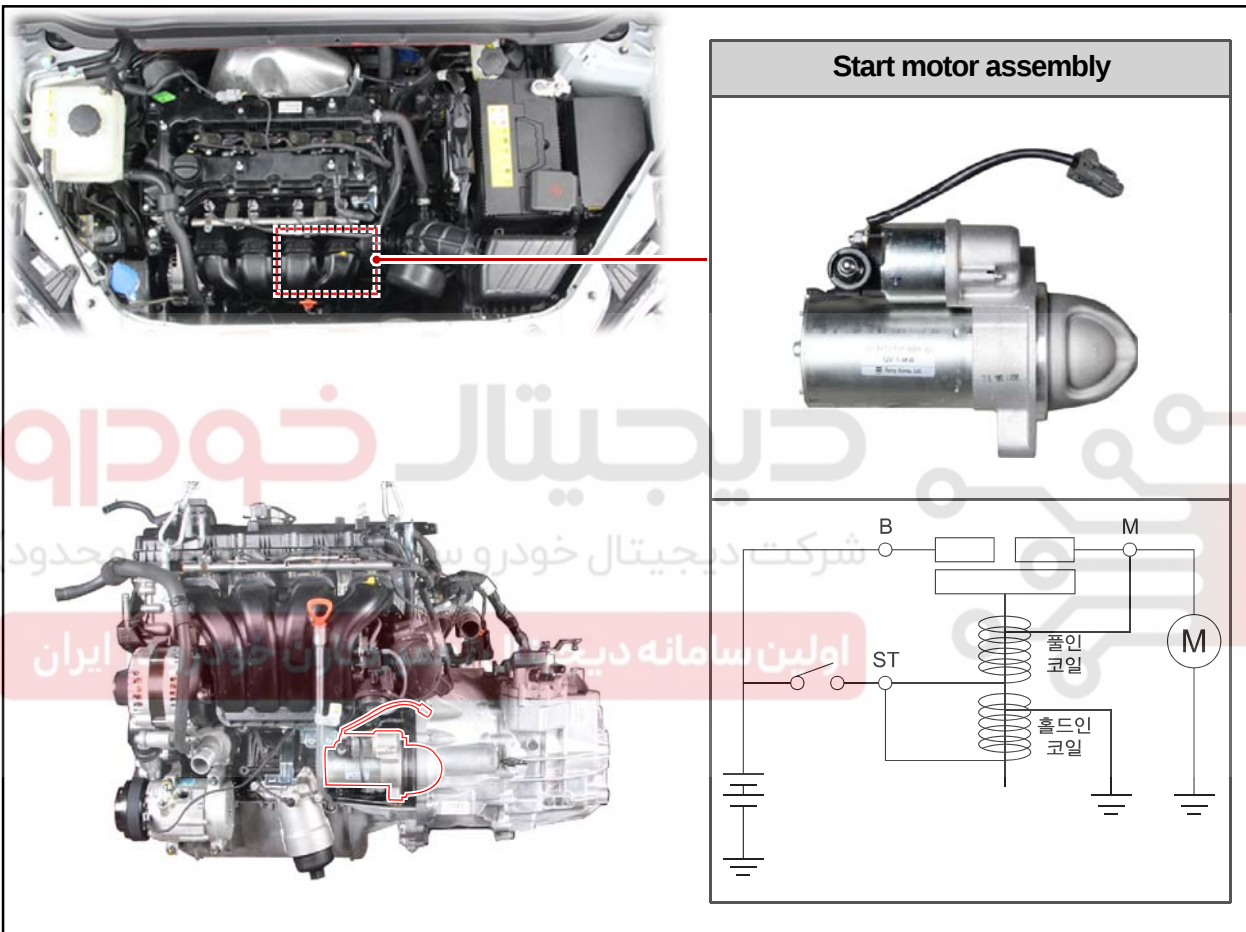
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OVERVIEW AND OPERATING PROCESS

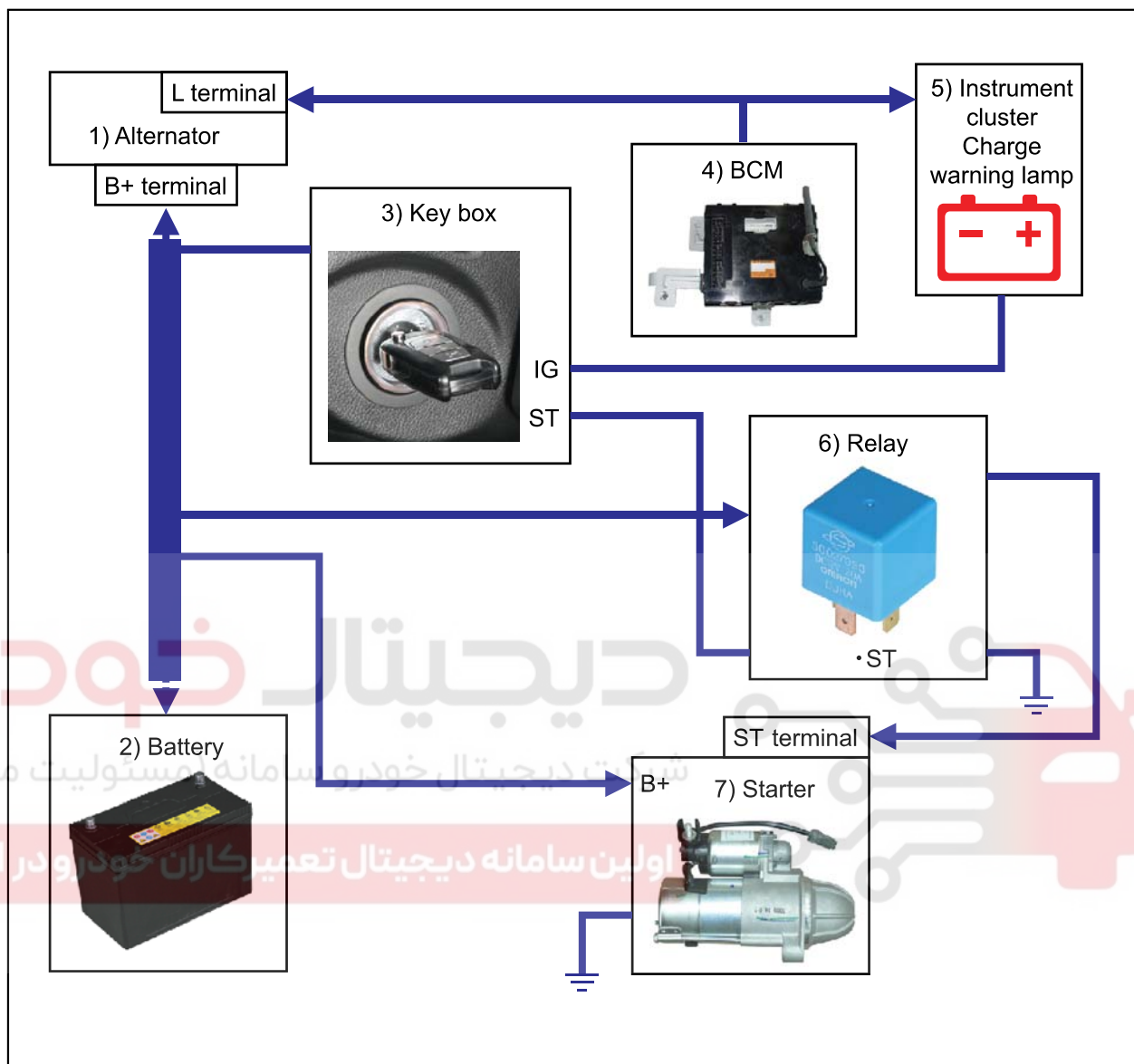
1. OVERVIEW

The starter (start motor) starts the engine with rotational power by converting the electric energy to the mechanical energy.

When the engine is cranking, the pinion gear meshes with the ring gear. If the ring gear overruns, the pinion gear clutch overruns to protect the pinion gear.

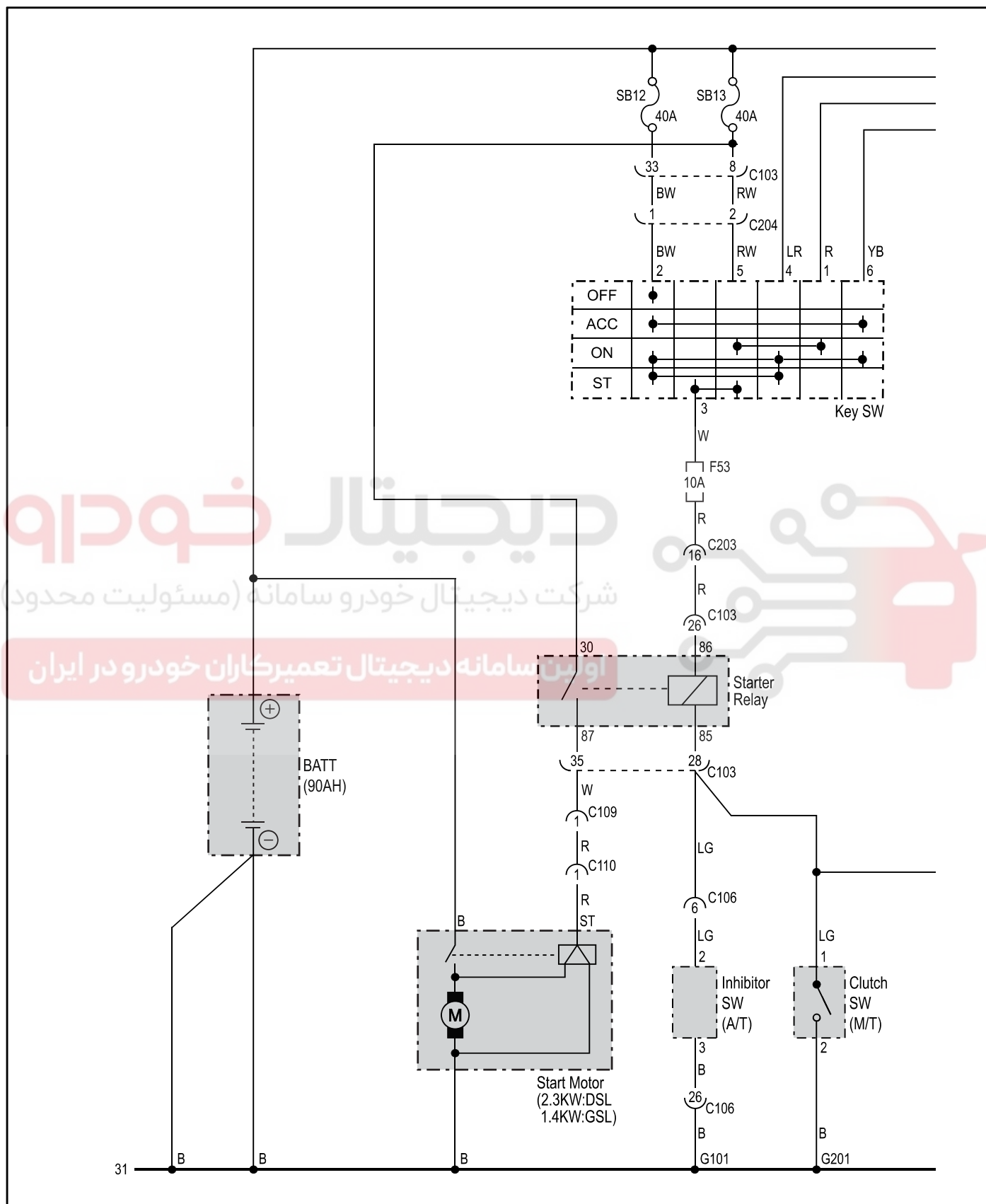


2. OPERATING PROCESS



Modification basis	
Application basis	
Affected VIN	

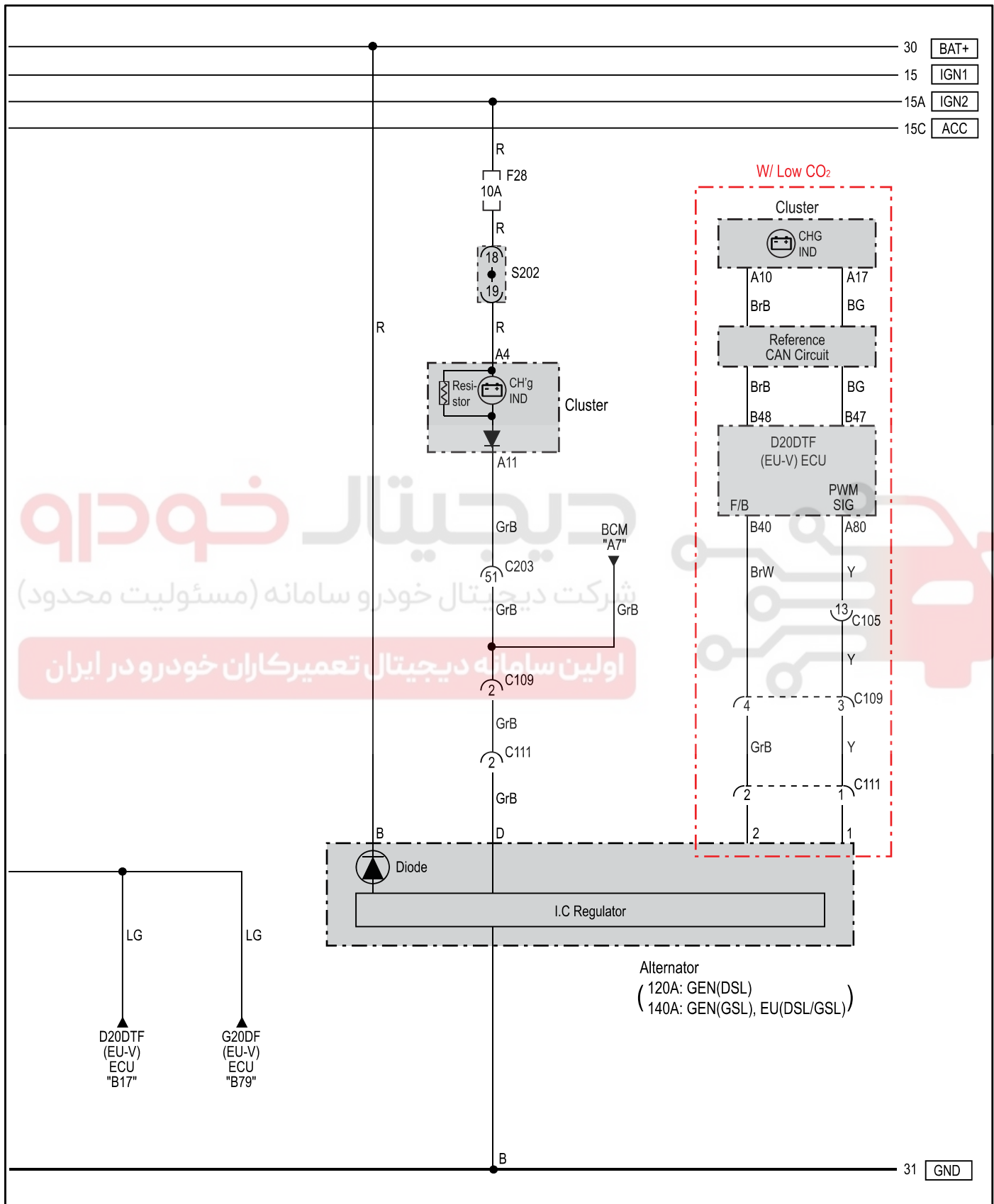
3. CIRCUIT DIAGRAM



STARTING SYSTEM

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Modification basis	
Application basis	
Affected VIN	



Modification basis	
Application basis	
Affected VIN	

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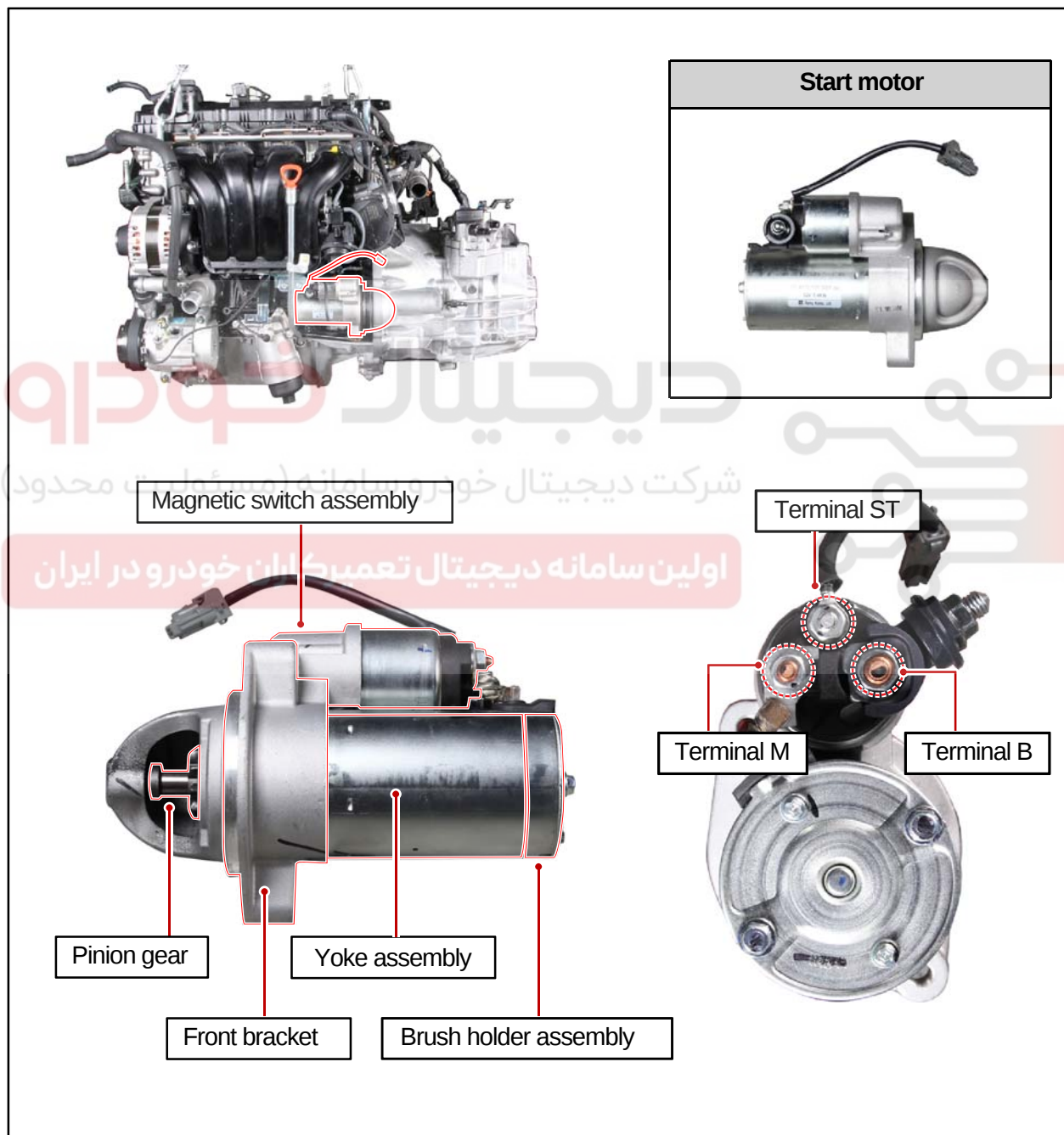
CONFIGURATION

S.G.N.

1462-01 START MOTOR

1) Overview

The starter (start motor) starts the engine with rotational power by converting the electric energy to the mechanical energy.



REMOVAL AND INSTALLATION

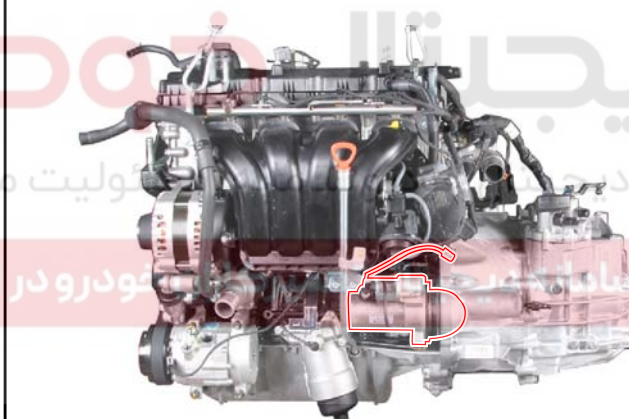
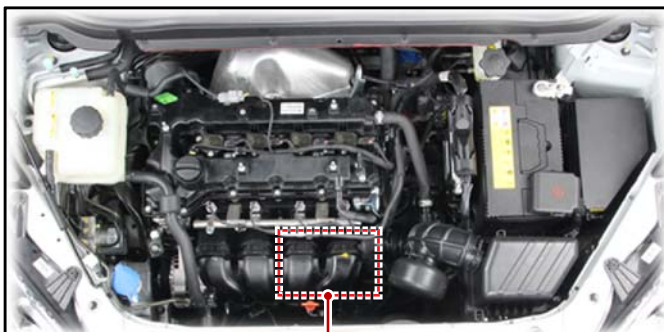
S.G.N.

1462-01

START MOTOR

Preceding work

- Disconnect the negative cable from the battery.
- Remove the under cover.

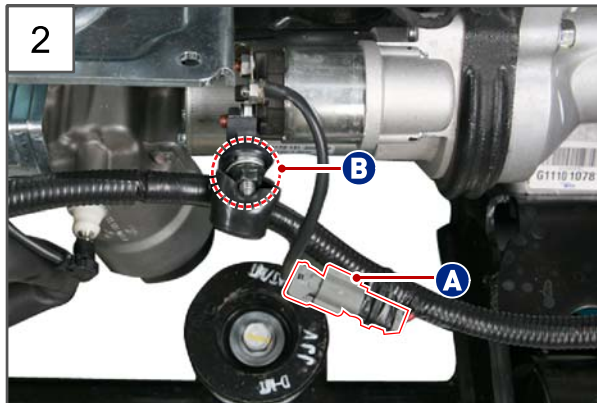


1. Remove the terminal B+ cover (A).

Modification basis	
Application basis	
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STARTING SYSTEM

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2. Disconnect the ST connector (A) and unscrew the nut (B) on terminal B+.

Tightening torque (B) $15 \pm 1.5\text{Nm}$



3. Unscrew two bolts (914 mm) from the start motor.

Tightening torque $48.0 \sim 58.8\text{Nm}$



4. Remove the start motor.



5. Install the start motor in the reverse order of removal.