

3GR-FSE CHARGING

Alternator

EG

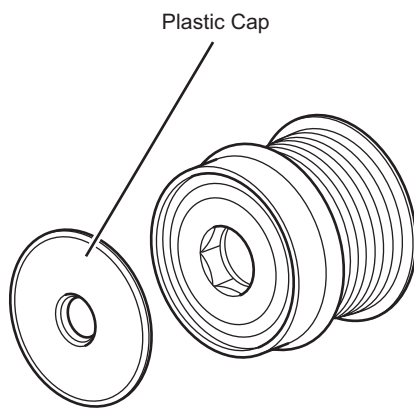
- A compact, lightweight, high power output, and highly efficient segment conductor type alternator is used.
- A charging control system is used. This system controls the generating load of the alternator in accordance with the driving conditions of the engine. By optimally controlling the generating voltage, this system contributes to fuel economy.
- A clutch is provided in the alternator pulley. By reducing friction on the accessory belt, this clutch contributes to fuel economy.

Alternator

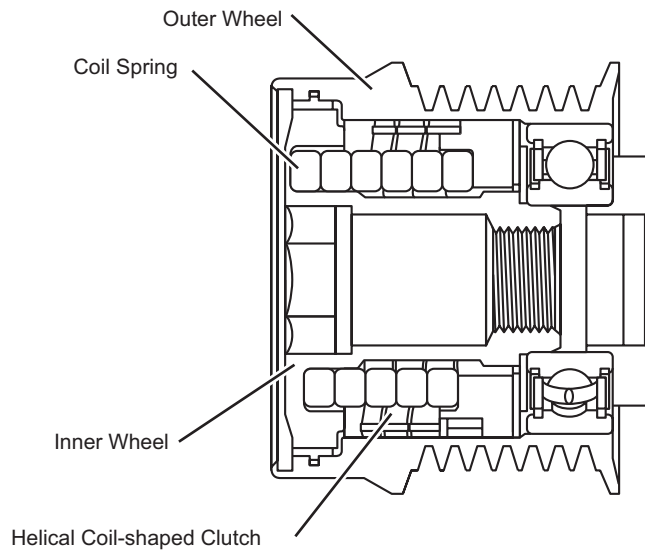
Rated Voltage	[V]	12
Rated Output	[A]	130
Regulator Setting Voltage	[V] (5000rpm,10A,25°C)	12.1 ~ 15.4
Permissible Max Speed	[rpm]	18000

Alternator Pulley

- A helical coil-shaped clutch, which is located between the inner and outer wheels of the pulley, transmits power to the alternator only in the forward rotational direction of the engine. Thus, it reduces the load that acts on the accessory belt.
- The pulley is made compact by shaping the inner wheel together with the nut used for tightening the alternator shaft.
- A plastic cap that covers the interior is provided in front of the pulley. This prevents mud from entering, thus ensuring reliability under poor environmental conditions.



Alternator Pulley

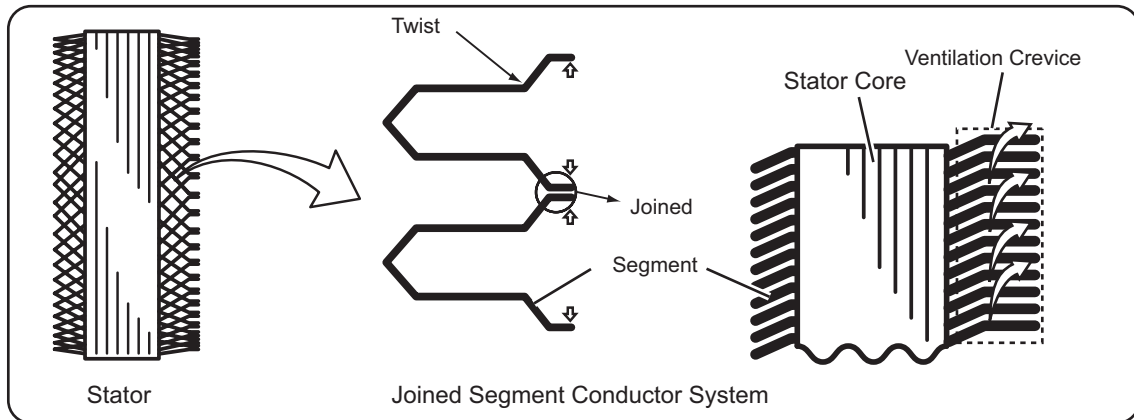


Alternator Pulley Cross Section

A4270229P

Stator Coil

- A compact and lightweight Segment Conductor type alternator that generates high amperage output in a highly efficient manner has been adopted on standard equipment.
- This alternator has a joined segment conductor system, in which multiple segment conductors are welded together to form the stator. Compared to the conventional winding system, the electrical resistance is reduced due to the shape of the segment conductors, and their arrangement helps to make the alternator more compact.



〈Segment Conductor Type Alternator〉

