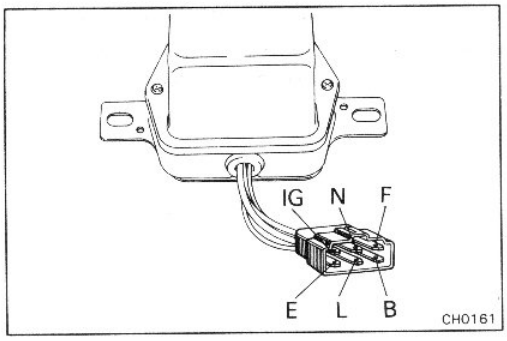
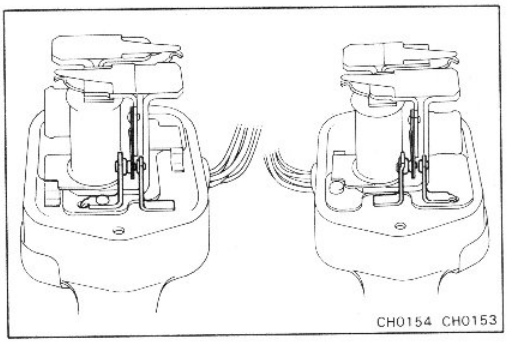


ALTERNATOR REGULATOR [w/o IC Regulator]

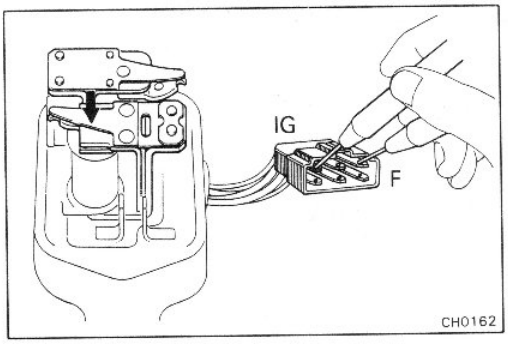
INSPECTION OF ALTERNATOR REGULATOR

LOCATION: On the left fender apron in the engine compartment.



1. INSPECT POINT SURFACES FOR SEIZURE AND DAMAGE

If defective, replace the regulator.

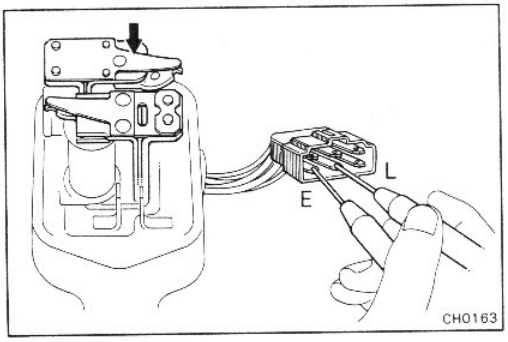


2. INSPECT RESISTANCE BETWEEN TERMINALS

(a) Using an ohmmeter, measure the resistance between terminals IG and F.

Resistance (Voltage regulator):

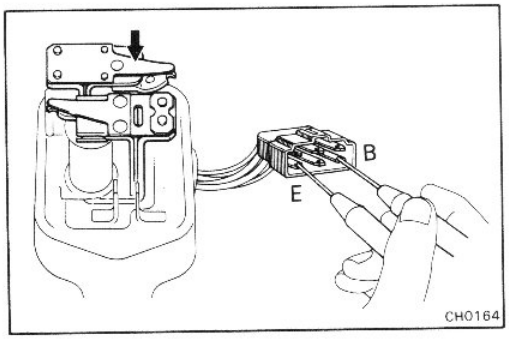
At rest		**0 Ω**
Pulled in	**12V type**	**10.5 Ω**
	24V type	**200 Ω**



(b) Measure the resistance between terminals E and L.

Resistance (Voltage relay):

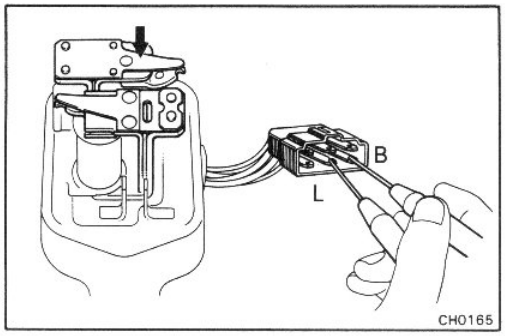
At rest		**0 Ω**
Pulled in	**12V type**	**102 Ω**
	24V type	**199 Ω**



(c) Measure the resistance between terminals B and E.

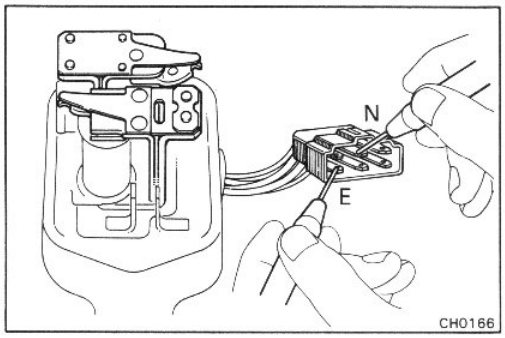
Resistance (Voltage relay):

At rest		**Infinity**
Pulled in	**12V type**	**102 Ω**
	24V type	**199 Ω**



(d) Measure the resistance between terminals B and L.

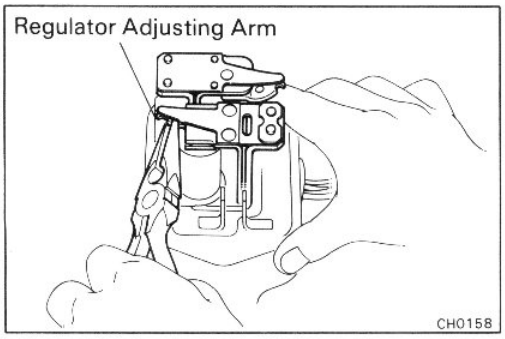
Resistance (Voltage relay): At rest Infinity
Pulled in 0 Ω



(e) Measure the resistance between terminals N and E.

Resistance:
12V type Approx. 24 Ω
24V type Approx. 102 Ω

If any of the above checks are not positive, replace the alternator regulator.

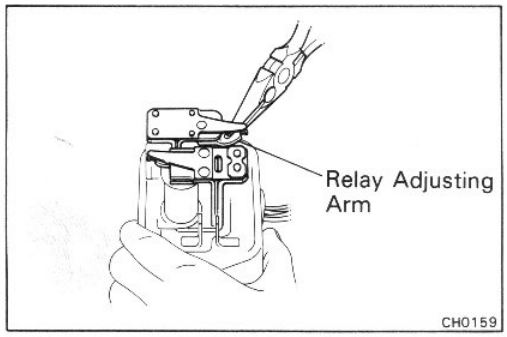


VOLTAGE ADJUSTMENT OF ALTERNATOR REGULATOR

1. ADJUST VOLTAGE REGULATOR

Bend the regulator adjusting arm to adjust.

Regulating voltage:
12V type 13.8 – 14.8 V
24V type 27.0 – 29.0 V



2. ADJUST VOLTAGE RELAY

Bend the relay adjusting arm to adjust.

Relay actuating voltage:
12V type 4.0 – 5.8 V
24V type 8.0 – 11.6 V