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Refer to the appropriate shop manual for troubleshooting techniques for the CO-MINDER™ system.

⚠ WARNING

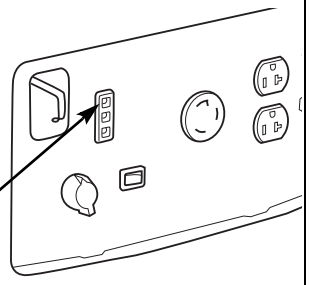
High voltage and electrical current present. Touching the non-insulated portions of the meter leads or generator wiring can cause shock or electrocution. Wear insulated gloves and avoid handling non-insulated wiring.

Use a load bank (available through the Honda Tool and Equipment Program or the Parts Division) to verify the customer's initial complaint and the generator's performance after the repairs (see page 6-2).

COMPLAINT: Abnormal output (none, low, or high) at the AC receptacle. **Normal AC output:** 120 VAC ± 4.

Check that the AC circuit breaker is ON, the AC circuit protector is ON, and the GFCI reset button is IN.

1. Start the engine. Is the green output indicator light ON?



ON → With the engine running, verify that the engine speed is normal.
Standard no load engine speed with Eco Throttle® OFF: 3,100 ~ 3,350 rpm

OK → Push reset button on GFCI receptacles.

Not reset → Remove all loads from the generator. Check the GFCI and LED after GFCI reset.

Cannot reset and LED lights or flashes → Replace the GFCI receptacle.

Reset → Check LED operation on both outlets.

LED lights or flashes → Replace the GFCI receptacle.

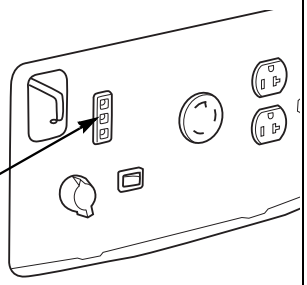
OFF → • Check the receptacle.
• Check the circuit protectors.
• Check the wiring from the inverter to the control panel.

OK → Go to step 10 on page EG-50.

NG → Go to step 9 on page EG-50.

OFF →

2. With the engine running, is the red overload indicator light ON?



OFF → **3.** With the engine running, verify that the engine speed is normal.
Standard no load engine speed with Eco Throttle OFF: 3,100 ~ 3,350 rpm

OK → Go to step 5 on page EG-49.

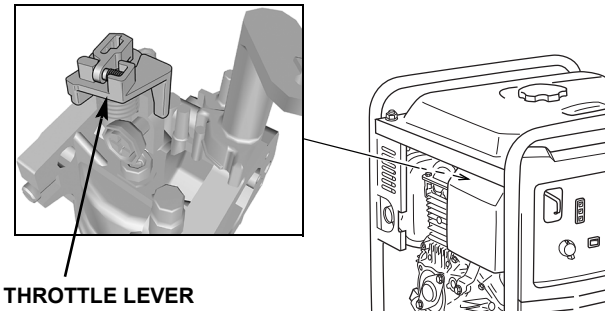
NG →

a. Start the engine and manually set the rpm by moving the throttle lever (located behind the left side of the air cleaner) with your finger.

b. Standard no-load speed with Eco Throttle OFF: 3,100 ~ 3,350 rpm.

c. If the green output indicator is ON, go to step 4 on page EG-49.

d. If the engine will not operate at the standard no-load speed, go to step 11 on page EG-50.



STEADY → The generator output capacity has been exceeded. Turn the engine switch OFF to reset the electronic breaker, and then restart the engine.

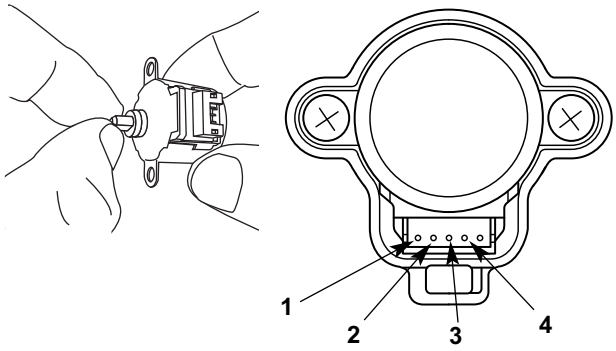
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4. Stop the engine and remove the throttle control motor using the base shop manual. Check the operation of the throttle control motor by slowly and gently rotating the motor output shaft by hand one or two revolutions. You should feel a slight and steady friction as the gears mesh throughout the entire 360° range of movement.

Measure the resistance at the locations shown.

Specified resistance	Between terminal 1 and 3: 50 ~ 70 Ω Between terminal 2 and 4: 50 ~ 70 Ω

If the throttle control motor fails these tests, replace the throttle control motor and go to step 10 on page EG-50. If the throttle control motor passes these tests, call Techline.

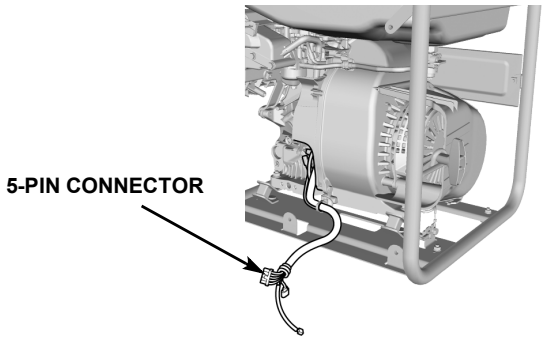


5. a. Stop the engine.

b. Turn the Eco Throttle® switch OFF.

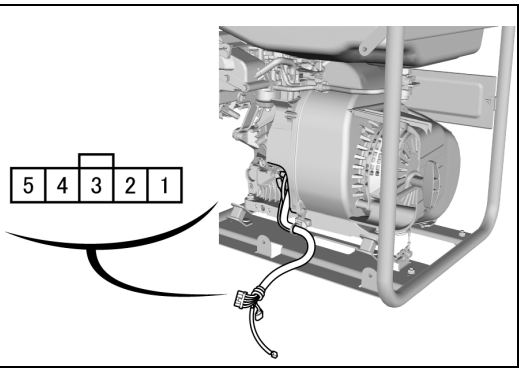
c. Remove the control panel and inverter cover.

d. Disconnect the 5-pin connector from the inverter.



6. Pull the recoil starter, and measure the voltage between the terminals.

Part	Item	Connector	Terminal number	Standard
Generator	Main winding voltage	4	1 - 2	AC 15V or higher
			2 - 3	AC 15V or higher
			1 - 3	AC 15V or higher
	Sub winding voltage		4 - 5	AC 1V or higher



OK → Go to step 9 on page EG-50.

NG → Check for short or open in the stator windings. Go to step 7 on page EG-50.

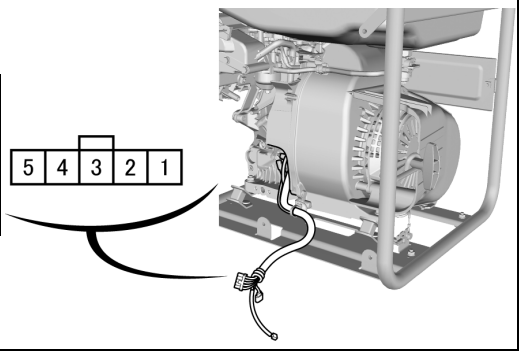
All windings test equally LOW → Rotor magnet(s) weak. Call Techline before replacing the rotor. Reassemble the generator. Go to step 10 on page EG-50.

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7. Stop the engine.

Measure the resistance between the terminals.

Part	Item	Connector	Terminal number	Standard
Generator	Main winding resistance	4	1 - 2	0.60 - 0.91Ω
			2 - 3	0.60 - 0.91Ω
			1 - 3	0.60 - 0.91Ω
	Sub winding resistance		4 - 5	0.08 - 0.12Ω



NG

8. Replace the stator. Call Techline before replacing the stator. Reassemble the generator.

Go to step 10 on page EG-50.

9. Replace the inverter. Call Techline before replacing the inverter. Reassemble generator.

10. Test the generator with a load bank. The generator must carry the rated output.
Maximum output: 120 V, 2.8 kVA, 23.3 Amps
Rated output: 120 V, 2.5 kVA, 20.8 Amps

OK

Generator is working properly or the problem is the load or customer usage.

NG

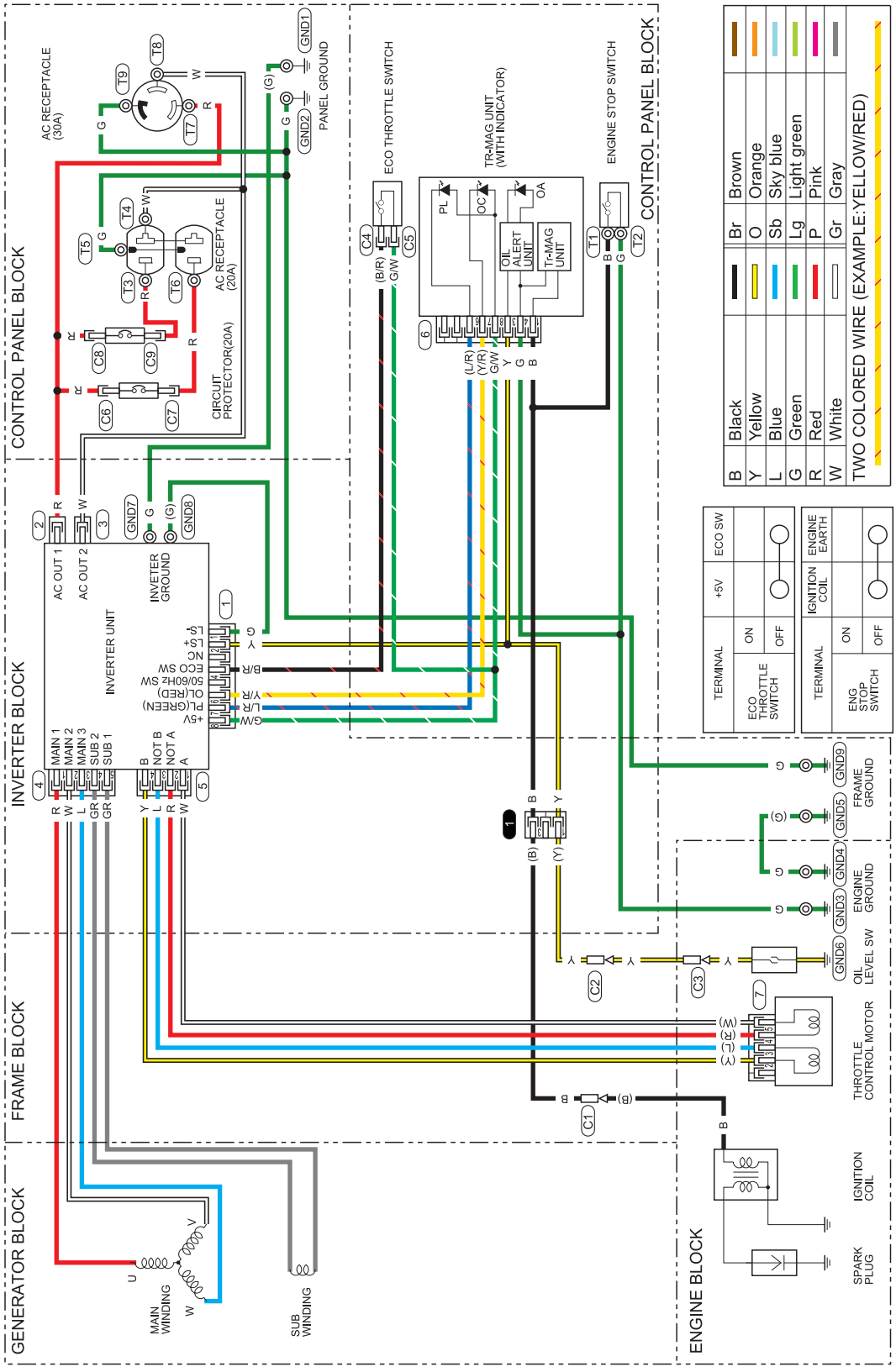
11. Engine performance problem. Check the following:
- Carbon deposits in combustion chamber or spark arrester
- Fuel system
- Engine compression
- Ignition system

Repair as necessary using the base shop manual, and then repeat step 10 on page EG-50.

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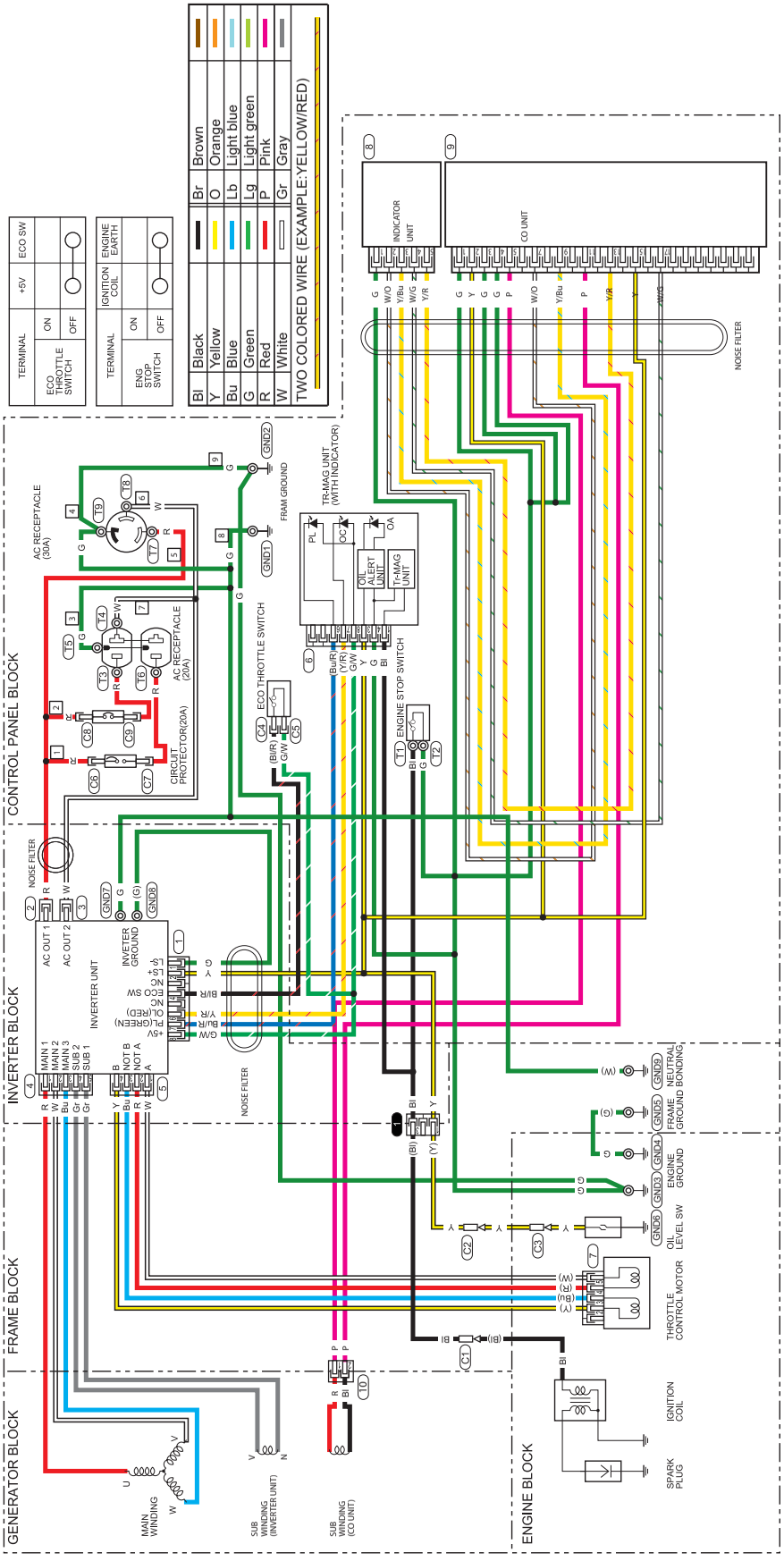
WIRING DIAGRAMS

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