

Installation and Troubleshooting Guide

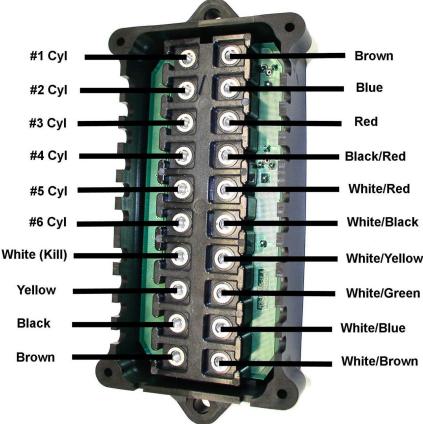


This unit replaces the following P/N's: 6G5-85540-10-00, 6G5-85540-11-00, and 6G5-85540-12-00.

WARNING! This product is designed to be installed by a professional marine mechanic. CDI Electronics cannot be held liable for injury or damage resulting from improper installation, abuse, neglect or misuse of this product.

Installation

- 1. Disconnect the negative battery cable.
- 2. Remove power pack mounting bolts and disconnect all of the wires going to the old power pack.
- 3. Connect the wires to the new power pack.
- 4. Mount the new power pack using the original bolts.
- 5. Connect the wires as follows:



6. Reconnect the battery cable.

Troubleshooting

NO SPARK ON ANY CYLINDER:

- 1. Disconnect the White stop wire and retest. If the engine's ignition now has spark, the stop circuit has a fault-check the key switch, harness and shift switch.
- 2. Clean and verify all engine and ignition ground wires. Make sure the wires are not broken at the terminals.
- 3. Check the resistance and DVA output of the Stator and Trigger:

hook the resistance and b w output of the otation and migger.									
	Read from	Read to	OEM Reading	CDI Reading	DVA (connected to pack)				
	White/Red Trigger wire	White/ Green Trigger wire	280-430 ohms	280-430 ohms	2.5 Volts Minimum				
	White/Black Trigger wire	White/Blue Trigger wire	280-430 ohms	280-430 ohms	2.5 Volts Minimum				
	White/ Yellow Trigger wire	White/Brown Trigger wire	280-430 ohms	280-430 ohms	2.5 Volts Minimum				
	Brown Stator wire	Red Stator wire	840-1260 ohms	600-800 ohms	85 Volts Minimum				
	Blue Stator wire	Black/Red Stator wire	65-130 ohms	10-20 ohms	25 Volts Minimum				
- h -	back the grapking DDM. A graphing append of loss than 250 DDM will not allow the gyptom to fire properly								

Check the cranking RPM. A cranking speed of less than 250-RPM will not allow the system to fire properly.

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Rev C • 3/06/2014

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NO SPARK OR INTERMITTENT ON ONE OR MORE CYLINDERS:

1. Check the resistance and DVA output of the Stator and Trigger:

one of the resistance and DWA output of the oracle and ringger.						
Read from	Read to	OEM Reading	CDI Reading	DVA (connected to pack)		
White/Red Trigger wire	White/ Green Trigger wire	280-430 ohms	280-430 ohms	2.5 Volts Minimum		
White/Red Trigger wire	Eng Ground	Open	Open	2.5 Volts Minimum		
White/ Green Trigger wire	Eng Ground	Open	Open	2.5 Volts Minimum		
White/Black Trigger wire	White/Blue Trigger wire	280-430 ohms	280-430 ohms	2.5 Volts Minimum		
White/ Black Trigger wire	Eng Ground	Open	Open	2.5 Volts Minimum		
White/ Blue Trigger wire	Eng Ground	Open	Open	2.5 Volts Minimum		
White/ Yellow Trigger wire	White/Brown Trigger wire	280-430 ohms	280-430 ohms	2.5 Volts Minimum		
White/ Yellow Trigger wire	Eng Ground	Open	Open	2.5 Volts Minimum		
White/Brown Trigger wire	Eng Ground	Open	Open	2.5 Volts Minimum		
Brown Stator wire	Red Stator wire	840-1260 ohms	600-800 ohms	85 Volts Minimum		
Brown Stator wire	Eng Ground	Open	Open	85 Volts Minimum		
Red Stator wire	Eng Ground	Open	Open	85 Volts Minimum		
Blue Stator wire	Black/Red Stator wire	65-130 ohms	10-20 ohms	16 Volts Minimum		
Blue Stator wire	Eng Ground	Open	Open	16 Volts Minimum		
Black/Red Stator wire	Eng Ground	Open	Open	16 Volts Minimum		

2. Check the DVA output on the Black/White wires from the power pack while connected to the ignition coils. You should have a reading of at least 85V or more. If the reading is low on one cylinder, disconnect the wire from the ignition coil for that cylinder and reconnect it to a load resistor. Retest. If the reading is now good, the ignition coil is likely bad. A continued low reading indicates a bad power pack or trigger (test per above).

ENGINE WILL NOT ACCELERATE ABOVE APPROXIMATELY 2000 RPM:

- 1. Verify the engine is not overheating and causing the control module to limit the RPM.
- Disconnect the White wire on the power pack coming from the control module and retest. If the engine now performs correctly, check the overheat sensor, oil level in the oil tank mounted on the engine and the wiring harness. If everything test correctly, the control module is likely defective.

ENGINE WILL NOT ACCELERATE ABOVE APPROXIMATELY 2500 RPM:

- 1. Using an inductive tachometer, check the RPM on all cylinders. A difference in readings between the individual cylinders can be caused by a bad coil, power pack or spark plug.
- 2. If all cylinders show the same RPM and the engine will only rev to approximately 2500 RPM, check the running stator DVA output from idle thru WOT. You should show a steady increase in voltage on the Blue to the Black/Red stator wires throughout the RPM range. A drop in voltage can be the result of a bad stator coil or a bad regulator/rectifier (disconnect the Green wires to the regulator/rectifier and retest if the engine now performs OK, the regulator/rectifier is likely bad).

HIGH SPEED MISS:

- 1. Verify the engine is not overheating and causing the problem.
- 2. Using an inductive tachometer, check the RPM on all cylinders. A difference in readings between the individual cylinders can be caused by a bad coil, power pack or spark plug.
- 3. Disconnect the Green wires to the regulator/rectifier and retest if the engine now performs OK, the regulator/rectifier is likely bad.

S.A.F.E. WILL NOT ENGAGE OR ENGINES REVS ABOVE 6500 RPM:

- 1. Disconnect the Pink warning wire from the control module. Connect a jumper wire to engine ground and connect it to the terminal where the Pink wire goes. If the engine now limits at approximately 2000 RPM, check the wiring from the temperature sensor and oil tank to the power pack. If it still fails to engage, the power pack is likely bad.
- Check the voltage on the Brown wire going to the control module. You should see approximately 35 volts when running at idle. Low
 or high voltage is likely to be a shorted control module and a very low voltage is likely to be a defective power pack.

ENGINE WILL NOT KILL (STOP)

Disconnect the White kill wire and connect a jumper wire to engine ground. If you still have spark, the power pack is likely bad. If the engine has no spark with the jumper connected, either the wiring harness, keyswitch or emergency stop switch is bad.