

Installation and Troubleshooting Guide

NOTE: This installation is to be completed by an Authorized Dealer or Professional Service Technician. For questions regarding installation or warranty, call CDI Tech Support at 866-423-4832. Do not return to the Dealer or Distributor where the part was purchased. Contact CDI Electronics Directly for Return Materiel Authorization.

CDI P/N: 117-TIA02-12 Ignition Pack 2 Cyl.

This unit replaces the following P/N's: 663-85540-14-00, 663-85540-15-00, 83030M, 83030T, TIA02-10 and TIA02-12.

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. Use a small amount of dielectric silicone grease in the bullet connectors.
- 4. Mount the new power pack using the original bolts.
- 5. Connect the wires as follows:

-				
	CDI Pack	Mariner Engine	Yamaha Engine	Connects to
	White/Red	White/Red	White/Red	Trigger
	White/Black	White/Black	White/Black	Trigger
	Blue	Blue	Blue	Stator (Charge Coil)
	Brown	Brown	Brown	Stator (Charge Coil)
	Yellow	Yellow	Yellow	Blanker Coil
	Black/White	Black/White	White	Kill circuit
	Grey	Grey	Black/White	Ignition Coil # 1
	Orange	Orange	Black/White	Ignition Coil # 2
	Black	Black	Black	Engine Ground

6. Reconnect the battery cable.

TROUBLESHOOTING

NO SPARK ON ANY CYLINDER:

- 1. Disconnect the White stop wire and retest. If the engine's ignition has spark, the stop circuit has a fault-check the key switch, harness and shift switch.
- 2. Disconnect the yellow wire from the pack and retest. If the engine now sparks, the Blanker coil is likely bad.
- 3. Check the stator resistance.

4.

	Read from	Read to	Reading	DVA (connected to pack) 150 Volts Minimum (while connected to the pack).	
	Brown	Blue	225-245 ohms		
١.	Check the resistance and DVA output of the Triggers:				
	Read from		Read to	Reading	DVA (connected to pack)
White/Red Trigger wire White/Black Trigger wire Yellow		Engine ground Engine ground Engine ground	75-85 ohms 75-85 ohms 25-35 ohms	4 Volts Minimum 4 Volts Minimum 10 Volts Minimum	

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

NO SPARK OR INTERMITTENT ON ONE OR MORE CYLINDERS:

1. Check the resistance and DVA output of the stator plate assembly:

Read from	Read to	Reading	DVA (connected to pack)
White/Red Trigger wire	Engine ground	75-85 ohms	4 Volts Minimum
White/Black Trigger wire	Engine ground	75-85 ohms	4 Volts Minimum
Yellow	Engine ground	25-35 ohms	10 Volts Minimum

2. Check the DVA output on the Orange and Grey wires (Yamaha engines will use Black/White wires) from the power pack while connected to the ignition coils. You should have a reading of at least 130V 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).

CDI Electronics, LLC • 353 James Record Road SW • Huntsville, AL 35824 USA

Web Support: www.cdielectronics.com • Tech Support: 1-866-423-4832 • Order Parts: 1-800-467-3371

All rights reserved. Reproduction or use of content, in any manner, without express written permission by CDI Electronics, LLC., is prohibited.

TEGHNIGA