



Pro-Series Digital Ignition (66V)

PART# - RY 11820

INSTALLATION INSTRUCTIONS

APPLICATIONS: 1999-'00 XL1200Ltd, 1999-'01 XR1800, 2000-'02 GPR1200R & 2001-'02 XLT1200.

NOTE: This is a Riva Yamaha racing component. It is designed for competition use only. Failures caused by the use of this component are not covered by the Yamaha limited warranty.

WARNING! DISCONNECT BATTERY AND TURN FUEL OFF BEFORE PERFORMING WORK!

Gasoline and gasoline fumes are highly flammable and explosive. Handle with care!

1. Disconnect spark plug wires, battery cables from battery and turn fuel cock valve to off position.
2. **FOR GPR's:** Remove the four OE M8 nuts and washers on each side of electrical box holding it to front of battery tray. ***NOTE: Be careful not to cut or damage wiring around and/or leading into electrical box.***
FOR XLL, XLT & XR1800's: Remove the four OE 8 X 45mm bolts holding electrical box to bulkhead. ***NOTE: Be careful not to cut or damage wiring around and/or leading into electrical box.***
3. On backside of electrical box remove the ten OE 6 X 30mm bolts and cover. ***NOTE: Be careful not to damage o-ring seal.***
4. Locate OE CDI and remove the two OE 6 X 30mm Phillips head screws from OE CDI coupler bracket. Next, carefully lift coupler bracket and pull OE CDI out towards top of electrical box (**Refer to illustration #1**) and disconnect the three wiring harness connectors. ***NOTE: Be careful not to cut or damage wiring and/or connectors in coupler bracket.***
5. Refer to Programming Chart on page 3 for setting the programming switches, recommendations and applications.
6. Connect the three OE wiring harness connectors to the RIVA Pro-Series Digital Ignition terminals (**Refer to illustration #2**). ***NOTE: Be sure to match the connectors to the proper terminals. Do not force connectors together.*** Then, install RIVA Pro-Series Digital Ignition into electrical box so that programming switches are visible (**Refer to illustrations #3&4**) and reinstall CDI coupler bracket using the two OE 6 X 30mm Phillips head screws. Route the CDI's three wire leads above CDI once installed. ***NOTE: Be careful not to cut or damage wiring and/or connectors in coupler bracket. Do not over tighten screws.*** The blue and brown wires are for optional applications. See page 3.
7. Reinstall electrical box cover using the ten OE 6 X 30mm bolts. Torque bolts to 5 Nm (0.5m/kg • 3.6ft/lbs). ***NOTE: Be sure o-ring seal is in place.***
8. Replace electrical box in reverse order of step # 2.
FOR GPR's: Torque nuts to 15 Nm (1.5m/kg • 11 ft/lbs).
FOR XLL, XLT & XR1800's: Torque nuts to 17 Nm (1.7m/kg • 11ft/lbs).
9. Check bilge area for tools, loose lines and/or fittings. Reattach battery cables, spark plug wires and turn fuel cock valve to on position.
10. Check stop/start switch operation by starting engine and depressing (red) stop button. Restart engine and pull wrist lanyard.
11. Upon completing installation, run engine on flush kit to test CDI's operation.

NOTE: Be sure to remove wrist lanyard when charging battery, not in use and stopping*.

****CDI does not retain stop button memory after depressing and releasing immediately!***



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INSTALLATION INSTRUCTIONS (CONT.)

IMPORTANT: Technical Support

For answers to questions regarding installation or trouble shooting Riva Yamaha Digital Ignitions contact:
Riva Yamaha Tech Line at (954) 247-0705, online at tech_support@rivayamaha.com or you're local Yamaha Dealer.

Riva Yamaha 1-Year Limited Warranty

Riva Yamaha Digital Ignitions carry a 1-year limited warranty to the original purchaser. They are warranted to be free of defects in materials and workmanship under normal use and service. Customer modified components will be void of warranty. This warranty is limited to defects in the primary electronic components only. External finish and wear marks in or on unit are not covered under this warranty.

Riva Yamaha's liability is expressly limited to the repair or replacement of the Digital Ignition. Riva Yamaha agrees to repair or at Riva Yamaha's option, replace any defective unit without charge, if product is returned to Riva Yamaha freight prepaid within the warranty period. Any equipment returned which, in Riva Yamaha's opinion, has been subjected to misuse, abuse, or accident shall not be covered by this warranty.

Riva Yamaha shall have no liability for special, incidental or consequential damages or injury to persons or property from any cause arising from the sale, installation or use of this product.

No other warranty, express or implied, including, but not limited to the implied warranties of merchantability and fitness for a particular purpose, applies. Various states do not allow for the limitation of incidental or consequential damages and therefore the above exclusion or limitation may not apply to you.

Warranty does not include the expenses related to freight or transportation of parts or compensation for any inconvenience or loss of use while being repaired. A copy of the original invoice must accompany all warranty claims.

Warranted replacement parts will be returned freight collect.

Remember, the water belongs to everyone!
Please ride responsibly!



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SWITCH SETTING CHARTS

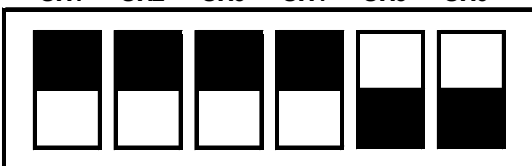
RECOMMENDED SETTINGS

CURVE 1: Stock to Stage I (92+ Octane Pump Gas)

SW1 SW2 SW3 SW4 SW5 SW6

ON

OFF

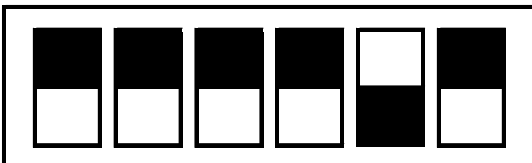


CURVE 2: Stage II w/Stinger Pipe or C/D-Plate & Triple Pipe Big Bore (92+ Octane Pump Gas)

SW1 SW2 SW3 SW4 SW5 SW6

ON

OFF

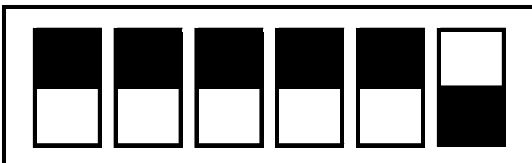


CURVE 3: Stage III & Single Pipe Big Bore (92+Octane Pump Gas); Limited (Race Fuel)

SW1 SW2 SW3 SW4 SW5 SW6

ON

OFF

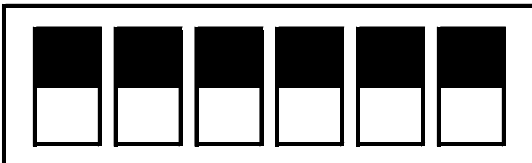


CURVE 4: Superstock (Race Fuel)

SW1 SW2 SW3 SW4 SW5 SW6

ON

OFF



SWITCH FUNCTIONS

POWER VALVE OPEN RPM

SW 1	SW 2	SETTING	OPEN RPM
OFF	OFF	1	5800
OFF	ON	2	5900
ON	OFF	3	6000
ON	ON	4	6100

REV LIMIT RPM

SW 3	SW 4	SETTING	RPM
OFF	OFF	1	8000
OFF	ON	2	8500
ON	OFF	3	9000
ON	ON	4	9500

TIMING CURVE

SW 5	SW 6	CURVE
OFF	OFF	1
OFF	ON	2
ON	OFF	3
ON	ON	4

OPTIONAL APPLICATIONS

The **BLUE** wire is for the addition of water injection. This is programmed into each timing curve to turn on at 6500RPM and turn off at 17,000RPM.

The **BROWN** wire is for a future application. We will release information regarding this application when available.



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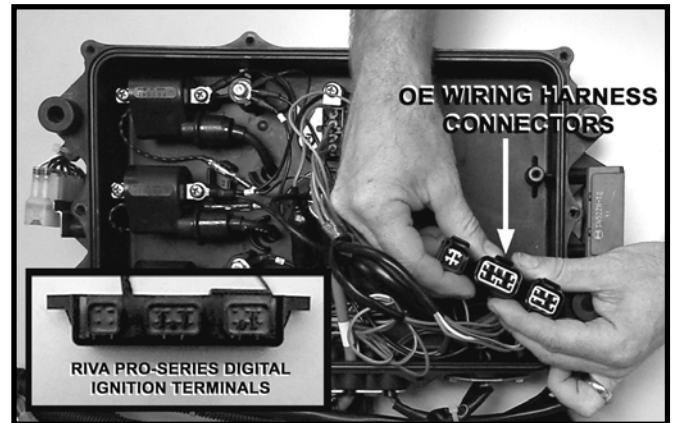
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INSTALLATION INSTRUCTIONS (CONT.)

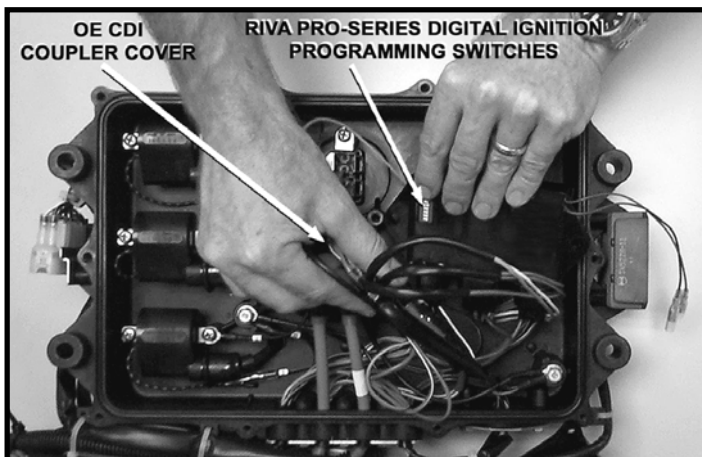
INSTALLATION IMAGES



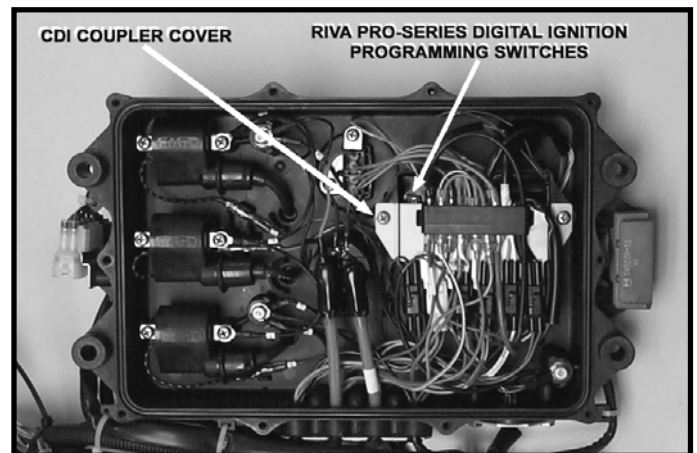
ILUUSTRATION #1



ILUUSTRATION #2



ILUUSTRATION #3



ILUUSTRATION #4