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1200 Riva Digital Quick Rev C.D.I.

Applications: 1997-'98 WaveRunner GP1200 and 1998 Exciter 1200.

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

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

1. Disconnect negative and positive leads from battery. Turn fuel off.

2. Remove plug wires from engine. Locate electrical box and remove box from mounting in hull. **Note:** If unsure of location and removal procedures, consult your Yamaha water vehicle's service manual.

3. Open electrical box by removing twelve 8mm bolts holding electrical box halves together. Locate two 10mm bolts holding ground wires (three ground wires attached to each bolt) next to C.D.I. unit and remove. Unplug two harness plugs(black and white) and remaining wires attached to C.D.I. unit. Carefully remove C.D.I. from electrical box and detach rubber holder from C.D.I.. Attach rubber holder to Riva Quick Rev C.D.I..

Note: Be careful not to damage wires or electrical box seal when working. Before removing original C.D.I., note position of C.D.I. and rubber holder inside electrical box to avoid confusion during assembly.

4. Prior to installing the Riva Quick Rev. C.D.I., set timing curve and RPM limiter switches to desired settings. **Note:** See diagram for timing curve, RPM limiter setting examples and programming information.

5. Carefully install Riva Quick Rev C.D.I. in electrical box. Install all previously removed ground wires (3 coil, 1 heat sensor, 1 main harness and Riva Quick Rev C.D.I.) using the two 10mm bolts removed in step 3. Plug two harness plugs (black and white plugs) into C.D.I.. Attach pink and white wires. Plug coil wire # 1 into black / orange wire attached to C.D.I., plug coil wire #2 into black / white wire attached to C.D.I., and plug coil wire #3 into black / yellow wire attached to C.D.I.. If using the Riva Water Injection System proceed to step 5a. If the Riva Water Injection System is not used proceed to 5b.

5a. With Riva Water Injection System Installed, plug water injection adapter wire into purple wire attached to C.D.I. Install wires neatly in place and snap plastic holder into position. Resemble electrical box in reverse order of disassembly. When assembling electrical box take care not to pinch wires or damage electrical box seal. Install twelve 8mm bolts and torque to 4 Nm (04 m - kg, 2.9 ft-lb). **Note:** After installing C.D.I. into position, recheck desired timing curve and Rev limiter programming before assembling electrical box.

5b. Install wires neatly in place and snap plastic holder into position. Take purple wire attached to C.D.I. and tie strap wire in bundle to protected against possible grounding. Resemble electrical box in reverse order of disassembly. When assembling electrical box take care not to pinch wires or damage electrical box seal. Install twelve 8mm bolts and torque to 4 Nm (04 m - kg, 2.9 ft-lb). **Note:** After installing C.D.I. into position, recheck desired timing curve and Rev limiter programming before assembling electrical box.

- 6. Reinstall electrical box to it's location in hull, tighten bolts and attach plug wires to engine.
- 7. Reinstall positive and negative cables to battery. Turn fuel on.
- 8. Check stop/start switch operation by starting engine. Shut engine off by pulling lanyard. Reattach lanyard, restart engine and shut off by pushing red stop button.
- 9. Run engine on flush to test C.D.I. operation.
- 10. Installation is now complete.

CAUTION !

There are three separate timing curve settings that can be achieved.

The "Limited" setting digitally advances each cylinder as follows; #1Cylinder starts startup from 18° to 26° @ 4000 RPM. Advance rate is 2°/376 RPM. #2 Cylinder starts at startup from 18° to 25° @ 4000 RPM. Advance rate is 2°/428 RPM. #3 Cylinder starts at startup from 18° to 24° @ 4000 RPM. Advance rate is 2°/500 RPM. Timing advance starts @ 2500 RPM for all three cylinders.

The "**Mod 1**" setting digitally advances the timing at startup from 18° to 25° @ 2400 RPM. Timing retard starts @ 5000 RPM. Retard rate is 3°/1000 RPM. The "**Mod 2**" setting digitally advances the timing at startup from 18° to 30° @ 2400 RPM. Timing retard starts @ 5000 RPM. Retard rate is 5°/1000 RPM.

"Limited" and "Mod 2" curves will require high octane race fuel and should only be used by a qualified technician. If this C.D.I. is used on modified and fully modified motors, extreme caution must be used. Using these curves without dual cooling system, high octane race fuel, and compression above 155 PSI will increase your chances of detonation.

RIVA Yamaha Digital Quick-Rev C.D.I. Unit for Yamaha GP 1200 Limited Warranty

RIVA Yamaha warrants this Digital Quick-Rev C.D.I. unit to the original purchaser to be free of defects in materials and workmanship under normal use and service for a period of one year from the date of original purchase by the end user.

RIVA Yamaha agrees to repair or at Riva's option, replace any defective unit without charge, if product is returned to Riva freight prepaid within the warranty period. Any equipment returned which Riva's opinion has been subjected to misuse, abuse or accident shall not be covered by this warranty. Customer modified RIVA Digital Quick-Rev C.D.I. Units will be void of warranty.

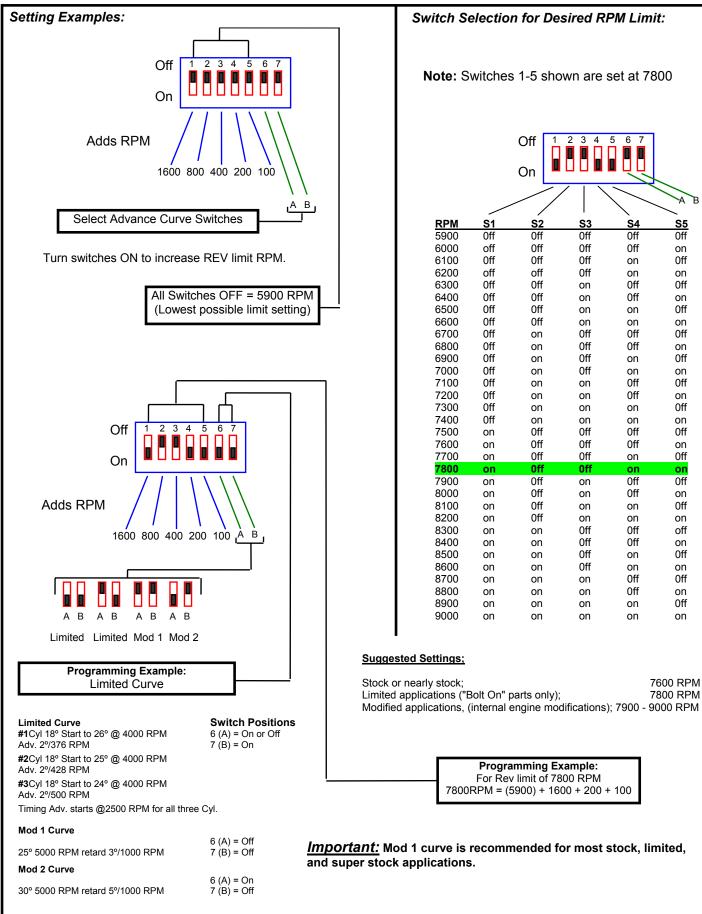
Riva Yamaha shall have no liability for special, incidental, or consequential damages or injury to persons or property from any cause arising from the sale, installation or use of this product.

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, therefor, the above exclusion or limitation may not apply to you.

Warranty does not include 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.

IMPORTANT: Technical Support

For answers to questions about installation, trouble shooting RIVA Yamaha 1200 C.D.I. Unit, contact: RIVA Yamaha @ (954) 785-4820 (ask for Tech Support) or your local Yamaha Accessory Dealer http://www.rivayamaha.com



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