

POWERLINE

HEAVY DUTY ISOLATORS

Marine Multi-Battery Rectifier / Isolator
MODELS: 22-9, 22-10, 22-11

CONGRATULATIONS!

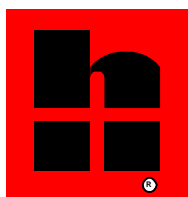
...for choosing this high quality **POWERLINE** PRODUCT. The latest state of the art engineering plus years of experience have gone into each **POWERLINE** product.

The attached instructions are provided to assist you with step by step installation. Test procedures are also provided to be kept with your equipment should future reference be desired.

Every effort has been made to use the finest materials and workmanship. In the event that service is ever needed or you have questions regarding the product, installation or performance please give us a call.

Your Friends at the factory

AN ISO 9001 COMPANY



HEHR

POWER SYSTEMS

A DIVISION OF HEHR INTERNATIONAL INC.
4616 Fairlane Avenue, Ft. Worth, TX 76119
817.535.0284 • fax: 817.531.2755 • Canada: 905.852.5417
E-Mail: sales@hehrpowersystems.com

TEST INSTRUCTIONS FOR *POWERLINE* ISOLATOR WITH OHMMETER

1. Remove all wires from the isolator.
2. Using a needle movement ohmmeter Rx- I scale or a digital ohmmeter diode scale, hold the Red prod on terminal "A" and with the Black prod touch terminal #1 and #2. A good isolator will show a current flow from "A" to # 1, #2.
3. Next hold the Black prod on terminal "A" and with the Red prod touch terminal # I and #2. A Good isolator will allow no current flow from "A" to # 1, #2.
4. Hold one prod on the aluminum heat sink, being sure there is contact. Then touch with the other prod terminals "A", # 1, #2. A good isolator will show no current flow.
5. **NOTE:** Some import ohmmeters have the color of the leads reversed.

LIMITED WARRANTY

HEHR POWER SYSTEMS warrants each new product against factory defects in material and workmanship for a period of time as outlined in the Warranty Period schedule (Form W 1000A-4/95). Exclusions from this warranty for damage or failure due to accident, misuse, negligence or improper installation.

Material required for repair or replacement of defective part is to be supplied at no charge on delivery of the defective part to **HEHR POWER SYSTEMS**, 4616 Fairlane Avenue, Fort Worth, Texas, 76119 or an authorized service center. The customer is responsible for all freight on returned parts.

There are no warranties, expressed or implied (including any implied warranties merchantability or fitness), which extend beyond this warranty period. The loss of use of the product, loss of time, inconvenience, commercial loss or consequential damages are not covered.

HEHR POWER SYSTEMS reserves the right to change the design or any product without assuming any obligation to modify any product previously manufactured.

This warranty gives you specific legal rights. You may also have other rights that vary from state to state. Some states do not allow limitations on how long an implied warranty lasts. Some states do not allow the exclusion or limitations of incidental or consequential damages. Therefore, the above limitation(s) or exclusion(s) may not apply to you.

HEHR POWER SYSTEMS

Powerline Multi-Battery Isolator

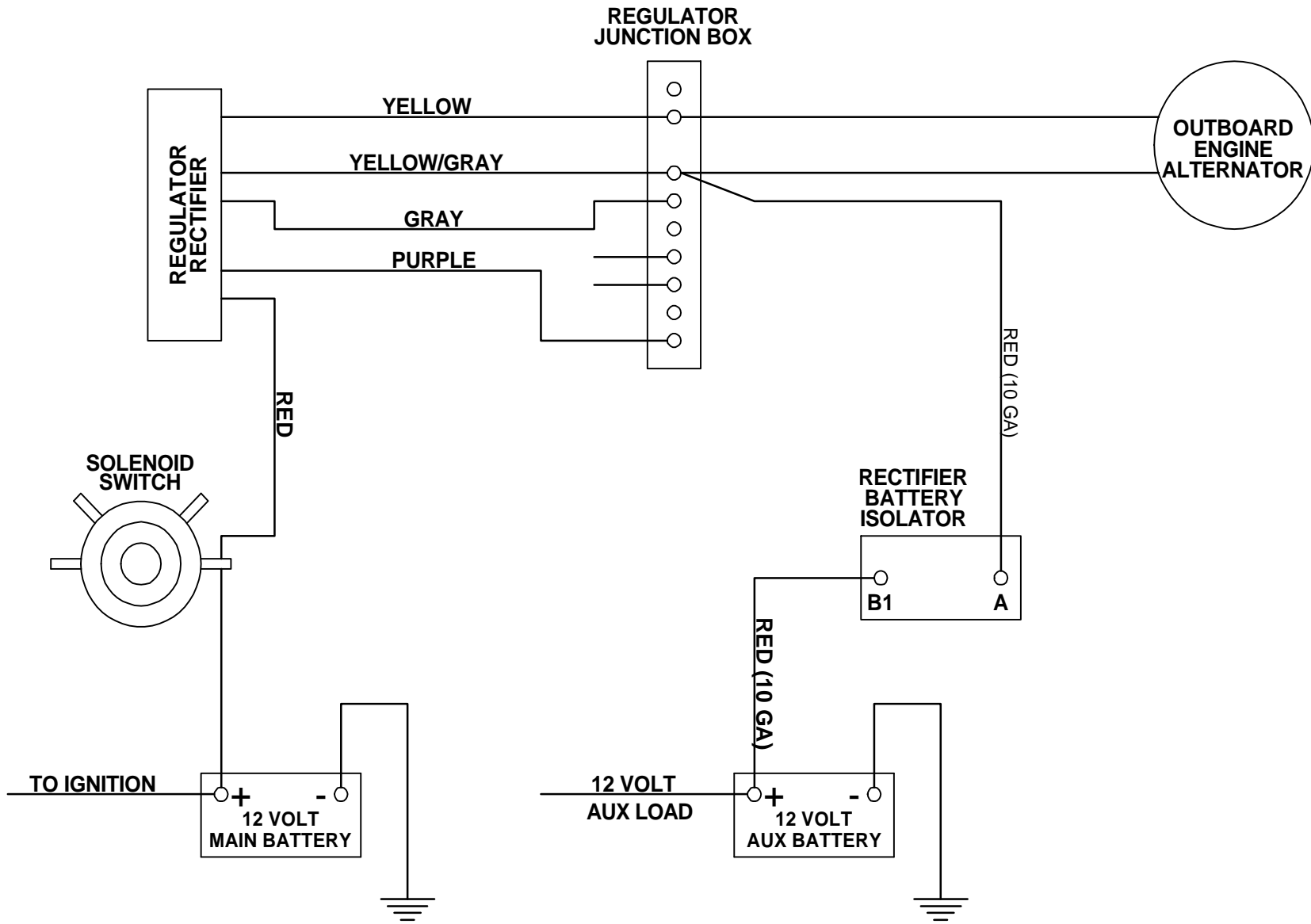
Installation Instructions
Marine Multi-Battery Rectifier / Isolator
Models 22-9,22-10,22-11

Rated up to 70 amps continuous 200v peak inverse voltage Diagram's shown are for use on most OMC outboard motors, or any other outboard motors equipped with a Regulator/Rectifier type alternator control. For exact color codes, check the Service Manuals for your specific outboard motor.

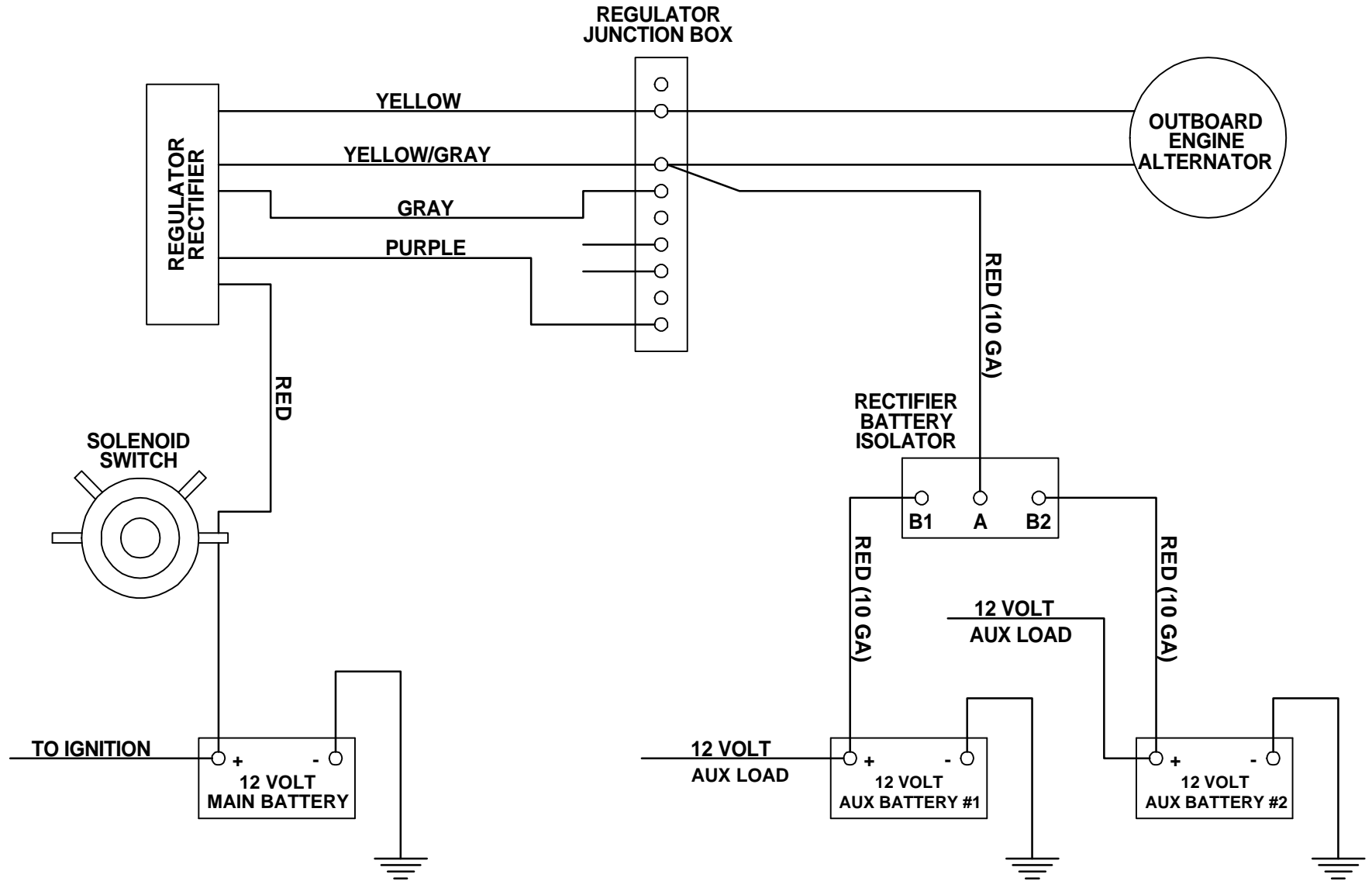
INSTALLATION

1. Mount Isolator in a convenient location near auxiliary batteries. 2. Alternator (A) Terminal connections:
 - A. Models 22-9,22-10 connect a new #10 wire from the A terminal of the isolator to the existing yellow-gray wire junction on the regulator terminal block. Do not remove any existing wires.
 - B. Models 22-11 connect a new #10 wire from the AI terminal of the isolator to existing yellow-gray wire junction on motor #1 regulator terminal block. Connect a new #10 wire from A2 terminal of the isolator to existing yellow gray wire junction on motor #2 regulator terminal block. Do not remove any existing wires from either motor #1 or motor 2.
3. Battery (B) terminal Connections:
 - A. Model 22-9 connect a new #10 wire from BI terminal of isolator to positive post of Auxiliary Battery.
 - B. Model 22-10 connect a new #10 wire from B 1 terminal of isolator to the positive post of the #1 auxiliary battery. Connect a new #10 wire from B2 terminal of isolator to the positive post of the #2 Auxiliary Battery.
 - C. Model 22-11 connect a new #10 wire from B 1 terminal on isolator to the main battery positive post of motor #1 - Connect a new #10 wire from B2 terminal on isolator to the main battery positive post of motor #2. Connect a new #10 wire from B3 terminal on isolator to the auxiliary battery positive post.
4. Connect the negative posts of all batteries to a good common negative ground point
5. Connect auxiliary loads to positive post of auxiliary batteries and insure all auxiliary equipment have a good ground back to battery negative posts. Use circuit breakers or fuse center as required for auxiliary leads

ISOLATOR MODEL 22-9 WIRING DIAGRAM - (1) OUTBOARD MARINE ENGINE, (1) ALTERNATOR & (2) BATTERY BANK



ISOLATOR MODEL 22-10 WIRING DIAGRAM - (1) OUTBOARD MARINE ENGINE, (1) ALTERNATOR & (3) BATTERY BANK



ISOLATOR MODEL 22-11 WIRING DIAGRAM - DUAL OUTBOARD MARINE ENGINES (2 ALTERNATOR, 2 MAIN BATTERY & 1 AUX BATTE

