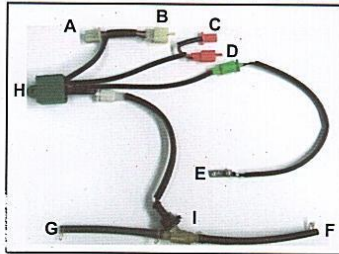


PH3100Ri Cold Start Kit Installation Instructions

POWERHOUSE®



Tools required:

- Ratchet, with 8mm socket
- 5mm allen wrench
- 8mm allen wrench
- #2 screwdriver

Kit Contents:

- Cold start valve assembly
- M5 x 20 screw
- M6 x 16 flange bolt

Instructions:

1. Remove the six (6) screws securing the control panel (Fig. 1) to the generator, and pull the panel outward.
2. Remove the six 8mm bolts holding the front and rear covers on (Fig. 2, orange arrows).
3. Remove the rubber caps at each of the four top corners of the generator (Fig. 2, red arrows)
4. Remove the front (control panel end) handle by removing the 8mm Allen head bolt from each side of the generator and then removing the center bar (between the two hinges). (Fig. 2, green arrows)
5. Remove the 5mm Allen head pivot bolt from the folding handle hinge, from either side (only one side) of the folding handle assembly. (Fig. 2, green arrows)

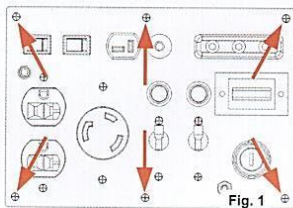


Fig. 1

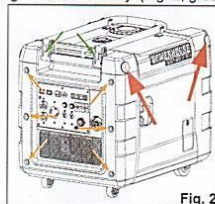


Fig. 2

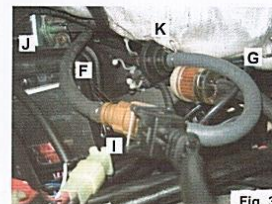


Fig. 3

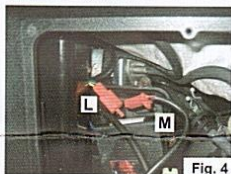


Fig. 4

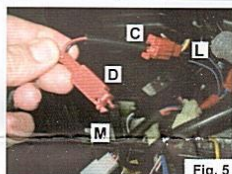


Fig. 5

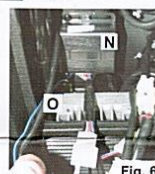


Fig. 6

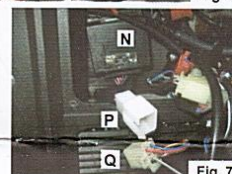


Fig. 7

6. Flex the folding handle enough to remove it from the hinge bracket and then remove the hinge bracket from the generator. The remaining hinge bracket and handle can be removed from the generator as an assembly.
7. Remove the rear (exhaust end) handle by removing the two 8mm hex head bolts from the rear handle.
8. Loosen the Phillips head screw on the retainer plate on one side only and allow the retainer to swing out of the way and pull the handle through the hole, sliding the foam tube off as the handle is removed.
9. Remove the black hose connecting the choke pod (Fig. 3, J) to the back pressure check valve (Fig. 3, K). Discard the hose.
10. Install the black hose (Fig. 3, F) of the cold start valve assembly (Fig. 3, I) to the choke pod (J), and the gray hose (Fig. 3, G) to the back pressure check valve (K).
11. Disconnect the red power wire that feeds the e-choke (Fig. 4, L & M), and connect both of those connectors to the red jumper wire connectors from the cold start valve assembly (Fig. 5—C connects to L, and D connects to M).
12. Locate the remote receiver (Fig. 6, N) and the inverter (Fig. 6, O).
13. Disconnect the white plug from the remote receiver wire (Fig. 7, P & Q), and install the white jumper wire from the cold start valve assembly to both of those connectors (Fig. 7—A connects to P, and B connects to Q).
14. On the right side of the generator, remove the M6 X 12 bolt that secures the yellow and green ground wire to the engine block (Fig. 9, R), and remove the wire (Fig. 9, S). **Discard the screw—do not reinstall it. The hole (Fig. 10, R) should remain empty.**
15. Snip the white wire tie (Fig. 9, red arrow) so that the ground wire can be relocated 2-1/2" further down.
16. Remove the M6 X 12 flange bolt that holds the stator wire cable holder bracket in place (Fig. 10, T).
17. Install the temperature probe (E) directly against the wall of the engine block, then place the ground wire connector (S) on top of it, and the cable holder bracket on top of both of them, aligning all of the holes with the bolt hole in the engine block.
18. Secure both wire connectors and the cable holder bracket to the engine block with the M6 x 16 flange bolt included with your kit, to ensure that the threads on the engine block are not stripped out when tightening. **Make sure the bolt is fully tightened so the bracket is not loose, or the stator wires may shift during operation and become damaged through wear!** Discard the M6 x 12 flange bolt.
19. The green connector block (Fig. 11, H) can be secured to the empty threaded hole on the top of the inverter (Fig. 11, O) using the M5 x 20 bolt.
20. Reinstall the front cover, control panel, rear cover, and right side panel of the generator by reversing steps 1-8.

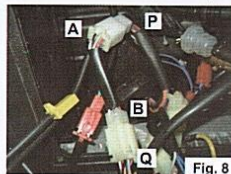


Fig. 8

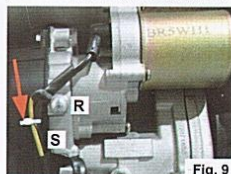


Fig. 9

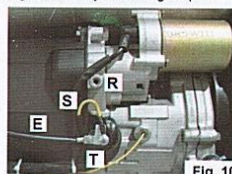


Fig. 10



Fig. 11