

VS  
24400

### LIMITED WARRANTY & REPAIR

The Portable Ignition Aid has a limited warranty to the final purchaser covering defective workmanship and materials for a period of one year from date of purchase. In the event the unit fails to operate after you have made sure the fuse is intact, unit may be returned freight prepaid to the factory for repair. Units which show indication of misuse, abuse or altering will not be considered eligible for warranty repair.

S & G Tool Aid Corp. shall not be liable for any incidental or consequential damages for breach of any written or implied warranty. User will determine the suitability of the product for his intended use and assume all risk and liability in connection therewith. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have rights which vary from state to state.

### OUT-OF-WARRANTY SERVICE POLICY

Return unit freight prepaid to the factory for evaluation. The cost of repair based on parts and labor plus return freight will be quoted for approval before the repair work is begun.

 **S & G TOOL AID CORP.**  
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# INSTRUCTIONS FOR PORTABLE IGNITION AID

Please read these instructions carefully for effective and safe operation of your Portable Ignition Aid.

## INSTRUCTIONS

1. Ignition key should be in OFF position.
2. Vehicle should be in PARK or NEUTRAL with emergency brake on.
3. Switch in center of Portable Ignition Aid should be in OFF position.
4. Remove coil wire from center of distributor cap and from vehicle coil. This wire is not used while Ignition Aid is in use.
5. Insert wire from Portable Ignition Aid into center of distributor cap.
6. Attach Positive (RED) lead and Negative (BLACK) lead of unit to the battery. (POSITIVE TO POSITIVE; NEGATIVE TO NEGATIVE).
7. Prime carburetor.
8. Attach BLACK wire with GREEN insulator to ignition key terminal on starter solenoid. On GM cars only, attach to purple wire (in ignition key wiring harness) using wire puncturing point in alligator clip.
9. Crank engine for 2 seconds by depressing the STARTER SWITCH button, then slide IGNITION SWITCH in center of unit to ON position. (If car does not start, check for fuel problem.)
10. Even though ignition key is OFF the engine will continue to run. Slide IGNITION SWITCH to OFF position to stop engine.
11. Hang unit under hood in engine compartment away from belts, fans or other moving parts.

## TWO TESTS FOR TROUBLESHOOTING THE IGNITION KEY CIRCUIT

These tests will tell you if ignition key circuit is functioning properly. For each test do not connect the starter solenoid wire (BLACK wire with GREEN insulator).

TEST A—Skip step #8 and crank engine as in step #9 using ignition key. (This test will generally require two people.)

TEST B—Skip steps #8 and #9. Turn unit to ON and crank engine using ignition key. (This may advance timing so engine is hard to start.) This test can be performed by one person. If vehicle doesn't start, the problem may be in the ignition switch or the interlock. Try steps #6 through #11.

## FUSE

Check Unit Fuse If:

1. Engine will not crank.
2. Unit does not generate high voltage spark.

The Portable Ignition Aid has a 20 ampere fuse which protects both the internal coil circuit and accidental grounding of the external starter lead when the STARTER SWITCH button is depressed. The fuse can be replaced by twisting off fuse holder cap located on the side of the Portable Ignition Aid.

## NOTE

If battery is DEAD, attach Portable Ignition Aid battery cables to jumper cables to insure good contact.

On V.W.'s (battery is under rear seat) attach unit's RED battery lead to positive side of coil and BLACK lead to engine ground. On other vehicles, if battery cannot be reached, attach in similar fashion to V.W. connection. Ignition key must be ON with this method to start vehicle.

On cars with an electric fuel pump (Vega, V.W., etc.) leave the ignition key in the ON position.

## GM HIGH ENERGY IGNITION ADAPTER

Disconnect both connectors going to side of distributor cap and connect adapter provided with unit.

## NOTICE TO BOAT OWNERS

Before starting engine, be sure there are no fuel leaks. Run bilge blower to evacuate all fumes. Use remote starter button if you can't reach ignition key.