Installation Instructions
Ignition System Retrofit

These instructions are for the installation of a solid state breakerless ignition system.

**Affected Models:** 1985 thru 1995 vehicles 2 cycle engine.

**Parts:**

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<th>ITEM</th>
<th>CPC P/N</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>SEATS P/N</th>
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<td>Electronic Ignition</td>
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<td>729539</td>
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**DANGER**

Danger indicates a hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING**

Warning indicates a hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION**

Caution indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

**NOTICE:** Notices are messages not related to personal injury. They will provide key information to prevent property damage and to assure procedures are more easily understood or implemented.

This assembly can be fitted to vehicles without modification. However, one of three different rotors must be used depending on the model year and the type of timer cam on the engine. See illustrations 1, 2, and 3 for the different rotors and their application.

**NOTICE:** Please read the following instructions carefully and completely before beginning. It is important to have an understanding of the different things that cause the module to fail. These items should be checked before replacing the module to avoid damaging the replacement set. It is also very important to have an understanding of the overall instructions as each step is completed.

- Check diodes in system to be sure you only have continuity one way. If you have continuity both ways replace diode.
- Check to be sure the coil on the vehicle is a 12 volt coil and that it has an internal resistor.
- Check to be sure the engine and key switch is grounded properly.

If you have checked the above items for failure and have found them to all function properly, proceed to procedures below. Installing the module without verifying the above voids all warranty.
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PROCEDURE

1. Remove time cover and gasket.
2. Disconnect black timer wire from negative (-) terminal of ignition coil.
3. Remove complete breaker plate assembly with points and condenser and discard.
4. Position appropriate type rotor on end of timer cam with exposed magnets facing down towards the engine. Press rotor all the way down onto the cam. NOTE: 30500-69 and 30500-82 rotors have two small ears which must index over end of crankshaft.
5. Position module in timer compartment with pick up located in the 4 o’clock position. Install retaining screws and washers finger tight.
7. Attach black wire from module to negative (-) terminal of ignition coil and blue wire from module along with blue wire from microswitch to positive (+) terminal of ignition coil.
8. To set ignition timing statically, remove spark plug from cylinder head. Position plug on top of air shroud so base contacts shroud retaining bolt. Attach spark plug wire to plug. NOTE: Remove the blue wire from wire harness to coil terminal BEFORE the jumper wire is attached.
9. Attach a jumper wire between battery positive (+) terminal and coil positive (+) terminal. Position crankshaft in the forward advanced timing position. Move ignition module clockwise the full extent of the slotted holes, and then, counter clockwise until a spark occurs at the plug. Lock down retaining screws at this point.
10. Timing can also be adjusted or checked using an automotive strobe timing light.

**WARNING**
When using strobe timing light method, the engine must be running. Support rear of vehicle securely with one wheel off ground. Keep hands away from turning components.

**WARNING**
The strobe light will cause rotating engine and drive components to APPEAR to stand still although they are actually turning. Keep hands and tools away from rotating parts.
Run engine and shine light on timing marks. Stop engine and move module as required to align marks. Lock down retaining screws and recheck timing.
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Columbia ParCar Corp. reserves the right to change specifications, equipment or designs at any time without notice and without incurring obligation.

If you have any questions, please contact your distributor or Columbia ParCar Technical Service.