



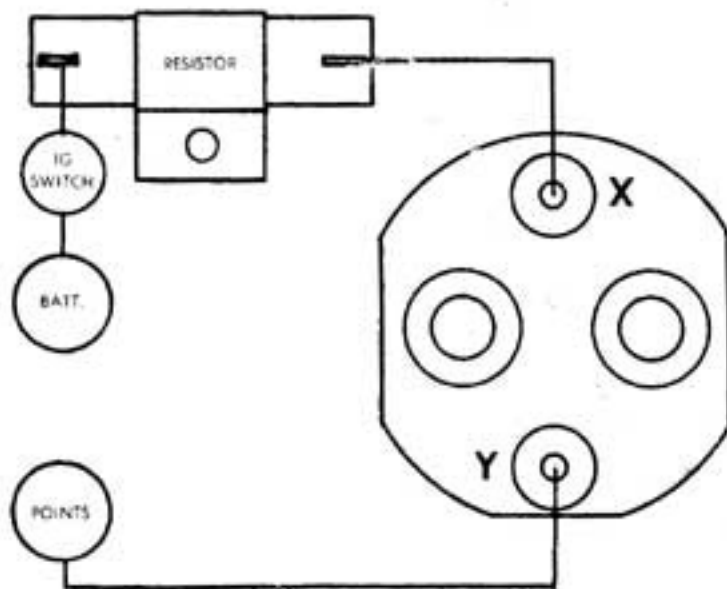
# INSTALLATION INSTRUCTIONS

## JUDSON CYCLE-TRON

The same Cycle-Tron is used on both 6 volt and 12 volt systems. In installing the Judson Cycle-Tron on a 12 volt system it is necessary to also install a resistor which is furnished with each unit. A resistor is not installed on any 6 volt system.

Installation procedure is exactly the same for both negative ground and positive ground systems. The difference is in the Cycle-Tron itself, not its connection. Do not install a standard negative ground unit on an engine having a positive ground system. Units for positive ground systems as required on many British engines are stamped on the front "positive ground".

Before installing the Cycle-Tron, we recommend that the points in the ignition distributor be examined and replaced if worn or pitted. Adjust the point clearance to manufacturers specifications. The ignition timing should also be set to manufacturers specifications. Spark plugs should be examined and replaced if worn or corroded. Set spark plug gap to engine manufacturers specifications and make sure that plug is inserted tightly into the head. Do not remove the condenser from the ignition as it is used in our circuit. **IMPORTANT** — In mounting Cycle-Tron, the mounting bracket must not touch the hexagon capsule on side of the case.

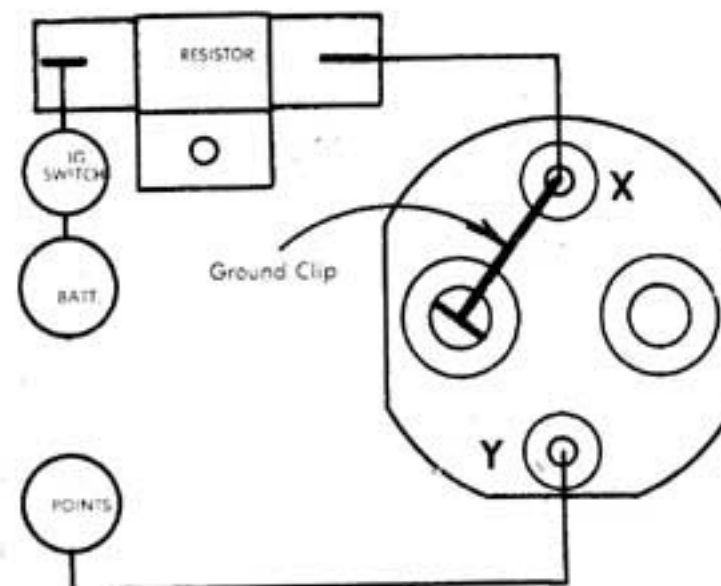


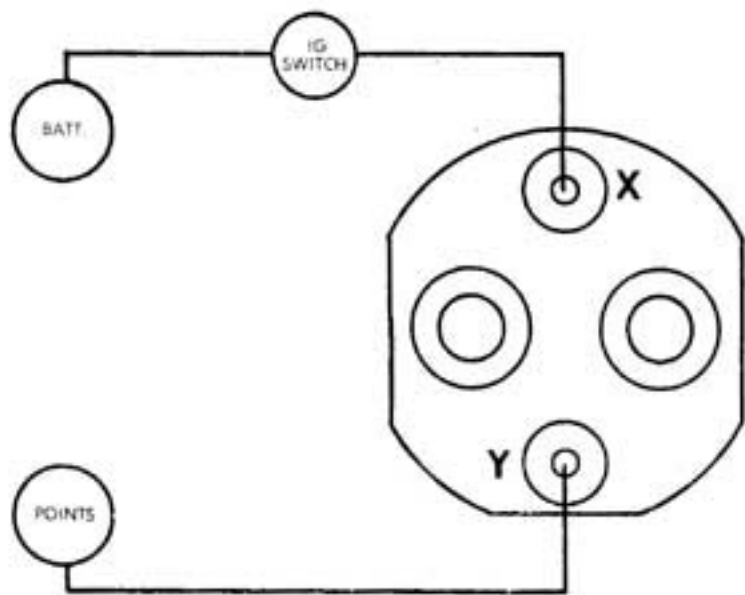
### INSTALLATION ON TWO CYLINDER 12 VOLT SYSTEM

1. Insert resistor in line between ignition switch and "X" terminal on Cycle-Tron as shown.
2. Connect wire from points to "Y" terminal.
3. Insert high tension lead from each plug into open outlets on Cycle-Tron.

### INSTALLATION ON SINGLE CYLINDER 12 VOLT SYSTEM

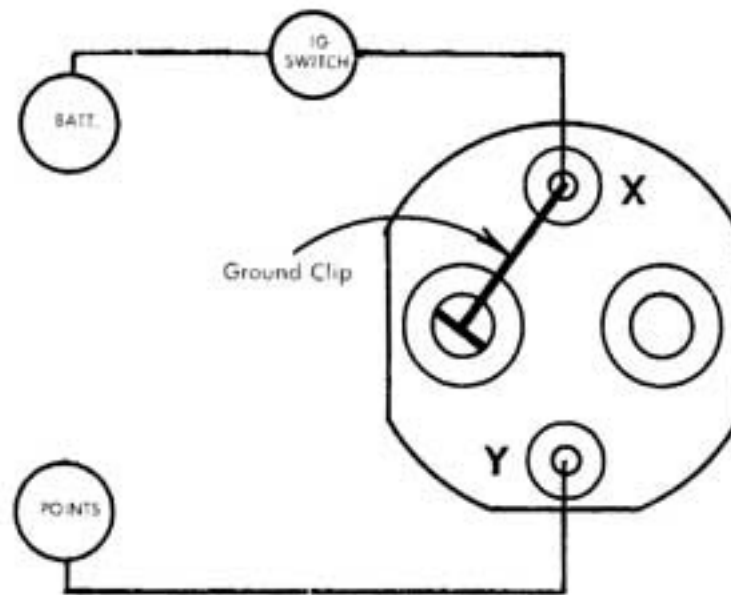
1. Insert resistor in line between ignition switch and "X" terminal on Cycle-Tron as shown.
2. Place ground clip in yellow marked high tension outlet and fasten other end to "X" terminal.
3. Connect wire from ignition points to "Y" terminal.
4. Connect high tension lead from spark plug to open outlet on Cycle-Tron.





### INSTALLATION ON TWO CYLINDER 6 VOLT SYSTEM

1. Connect wire from ignition switch to terminal on Cycle-Tron marked "X" (do not install resistor).
2. Connect wire from points to terminal on Cycle-Tron marked "Y".
3. Insert high tension lead from each plug into open outlets on Cycle-Tron.



### INSTALLATION ON SINGLE CYLINDER 6 VOLT SYSTEM

1. Connect wire from ignition switch to terminal on Cycle-Tron marked "X" (do not install resistor).
2. Insert spring clip into yellow marked high tension outlet and connect to "X" terminal as shown.
3. Connect wire from points to "Y" terminal.
4. Insert high tension lead from plug into open outlet of Cycle-Tron.

### IMPORTANT INSTALLATION DATA

1. The resistor becomes hot when engine is operating at idle speed and wires should be kept away from the resistor.
2. On Cycles having screw type high tension terminals on original coils, cut off screw type terminal, place our nipple over wire and use brass clips furnished on end of wire.
3. On all 2 cylinder engines having 360 degree firing (Honda Dream and Harley-Davidson) only one coil is necessary even if two coils and two sets of points (Harley-Davidson) are used. On these Cycles use one Cycle-Tron, both high tension outlets and one set of points.
4. If engine is two cylinder and has a 180 degree firing, (Honda Hawk) two Cycle-Trons must be used and high tension outlet marked in yellow of Cycle-Tron must be grounded to "X" terminal as shown in diagram.

### WARRANTY

The Judson Cycle-Tron is warranted against failure for a period of three years. In the event of failure within this period, we will either rebuild or replace the defective unit under warranty on a no charge basis. This warranty does not cover postage and handling to and from the factory and a nominal charge will be made to cover these costs. Service work is to be done only at the factory or by our authorized agent. This warranty is in lieu of all other warranties and does not cover equipment which has been altered, modified, abused or damaged in an accident.



**JUDSON** RESEARCH & MFG. CO.  
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