



INSTALLATION INSTRUCTIONS

E-SPARK® DISTRIBUTOR FOR 1936-69 HARLEY DAVIDSON® BIG TWIN MOTORCYCLES Model #A556

NOTE: THIS DISTRIBUTOR WILL NOT FIT FLAT HEAD OR SPORTSTER® ENGINES.

IMPORTANT

A 1966-69 HARLEY DAVIDSON® DISTRIBUTOR CLAMP (ORIGINAL OR AFTERMARKET) IS REQUIRED TO INSTALL THIS DISTRIBUTOR. BECAUSE THE E-SPARK® MODULE USED WITH THIS DISTRIBUTOR REQUIRES 7-16 VOLTS, A 12 VOLT ELECTRICAL SYSTEM IS ALSO REQUIRED.

GENERAL INFORMATION

Any coil or combination of coils with a total primary resistance of at least 2.0 ohms can be used with this distributor. We recommend a 2-3 ohm coil for racing and a 3-4 ohm coil for street use. A coil with 4-5 ohms resistance may be used. However, performance may be reduced, even in street applications. **NOTE: Check the charging system and make sure that it is producing no more than 16 volts.**

We recommend a spark plug gap of .040" when using a 2-3 ohm coil. A gap of .030" is recommended when using a 3-4 ohm coil. An optional spring kit (PN 29014) is available for this distributor. The kit gives you a choice of 14 different advance curve settings.

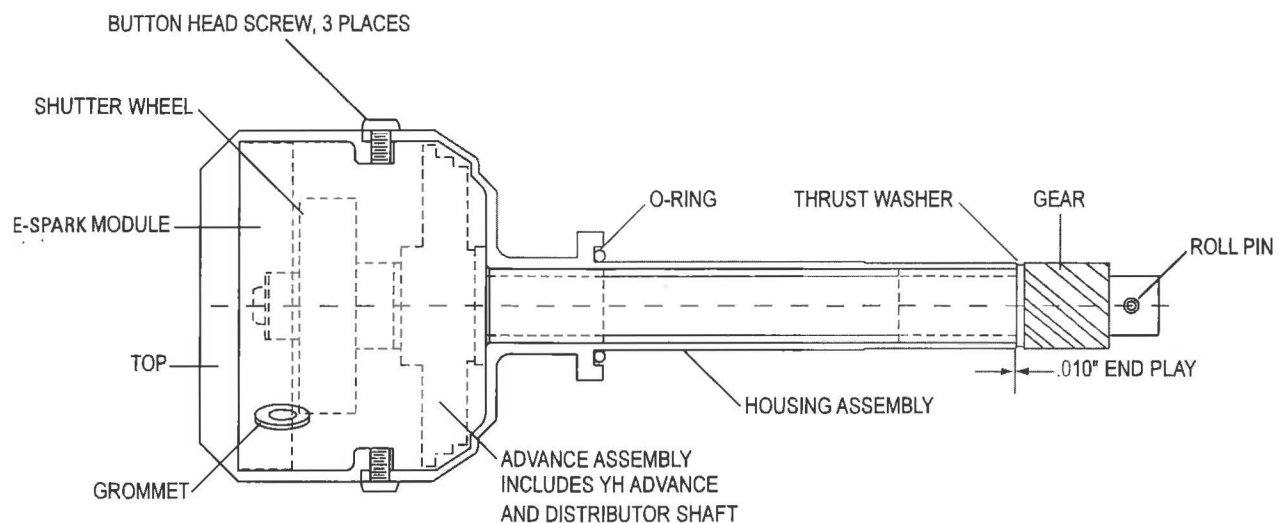
INSTALLATION

1. Turn the ignition switch to the off position. With the point distributor still in place and correctly timed, rotate the engine until the points begin to open on the front cylinder lobe. The front cylinder lobe is the narrower of the two.

If the point distributor is not installed, rotate the engine to the beginning of the compression stroke. Locate the timing hole. Continue rotating the engine until the advance mark is visible through the timing hole.

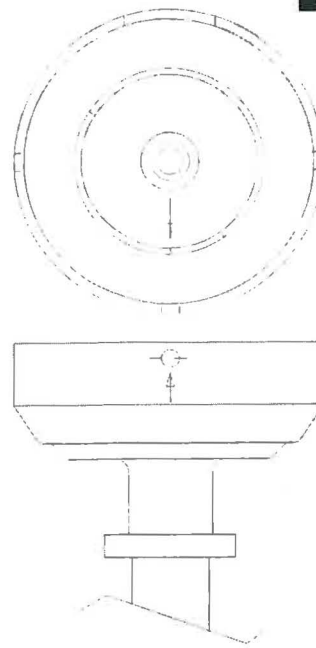
2. Remove the ground cable from the battery. Remove the point wire at the coil. Remove the point distributor.

FIGURE A



3. Remove the top from the ACCEL distributor by removing the three screws. Rotate the shaft until the arrow on the shutter wheel points approximately at the arrow on the housing. Install the ACCEL distributor in the engine. The slot in the top of the housing will clear the cylinder fins.

FIGURE B



4. Install a 1966-69 distributor clamp. Do not tighten the clamp at this time.

5. Turn the shutter wheel by hand to test the advance. The shutter wheel should rotate clockwise about 10 degrees and snap back when released. Using one hand, rotate the shutter wheel clockwise to the fully advanced position and hold. Using your other hand, rotate the housing until the arrow on the housing lines up with the arrow on the shutter wheel. Tighten the distributor clamp bolt. Timing should now be close enough to start the engine.

6. Replace the ACCEL top and install the three screws to hold it in place. **NOTE: The 3 holes in the housing must be aligned with the 3 holes in the top to ensure proper placement of the E-Spark® module. (Tech Tip: Add some Blue Loctite to 3 screws to help prevent them from vibrating loose.)**

7. Connect the wires as shown in Figures C and D. Start the engine and check the timing with a timing light. **NOTE: when checking the timing, engine RPM must be above 2000 for accurate timing results.**

FIGURE C

SINGLE PLUG HEADS

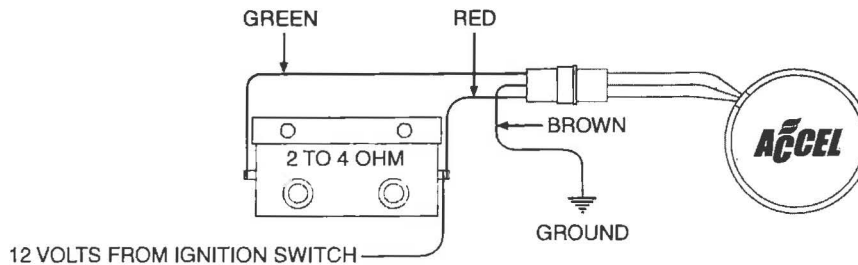
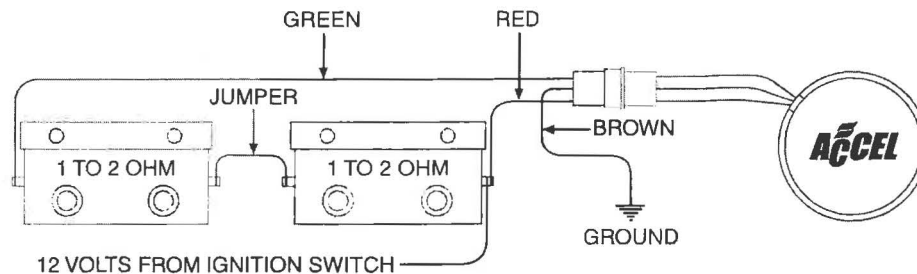


FIGURE D

DUAL PLUG HEADS



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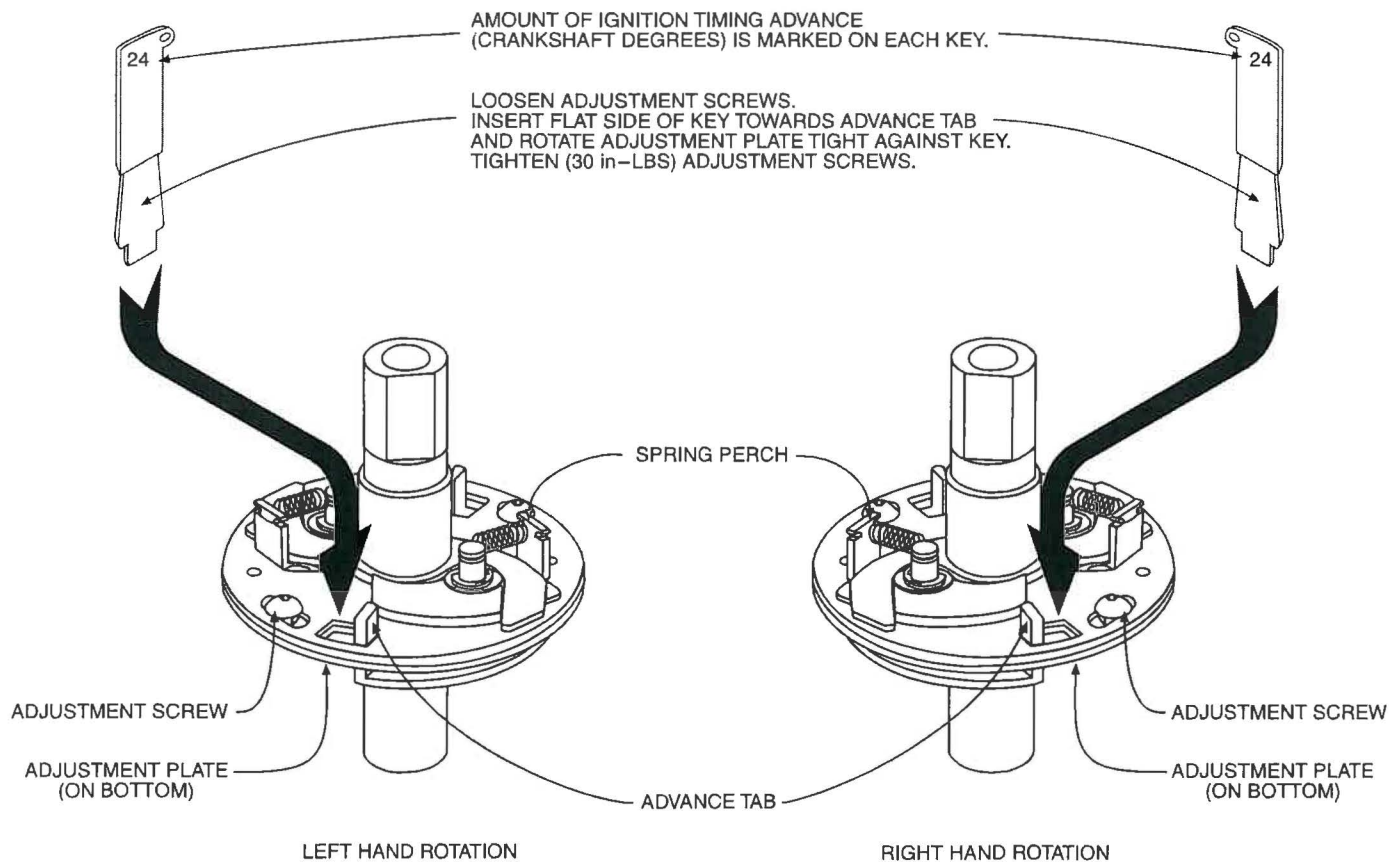
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YH ADVANCE ASSEMBLY ADJUSTMENT PROCEDURE

Distributor part numbers that end with the letter "H" have this type of advance. Mallory Advance Curve Change Kit Part No. 29014 is required to change the amount and rate of advance.

The kit includes degree keys that range from 14° to 28°. Five sets of springs are also included, with instructions to plot advance curves.

After tightening the adjustment screws, recheck the adjustment on both tabs to ensure they are equally adjusted.



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INSTALLATION INSTRUCTIONS

IGNITION MODULE FOR HARLEY DAVIDSON Model #A605

INSTALLATION AND ELECTRICAL WIRING PROCEDURE

Step 1: Apply a thin coat of silicone grease to the bottom of the module before mounting the module to its plate in the distributor.

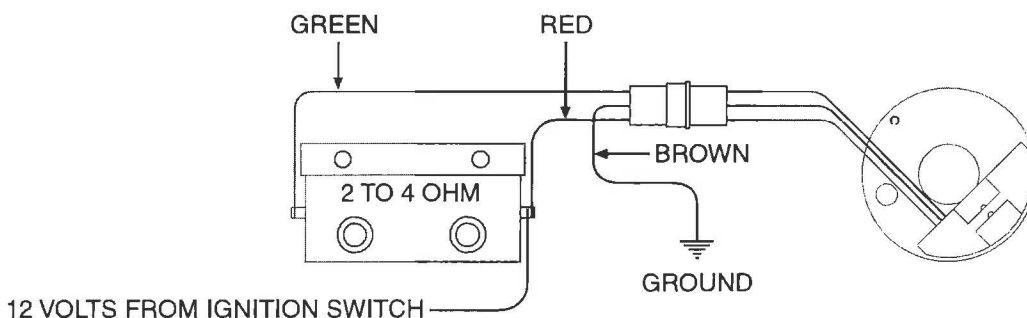
Step 2: Slide the three wires from the MODULE, through the grommet, to outside the distributor housing. Put the three wires from the MODULE in the TERMINAL PIN HOUSING: GREEN WIRE in hole #1, BROWN WIRE in hole #2, RED WIRE in hole #3. Plug the three wire harness (PN 29349, not supplied with this kit) into the TERMINAL PIN HOUSING.

RED WIRE: Power/voltage for the MODULE. Connect to coil (+) terminal.

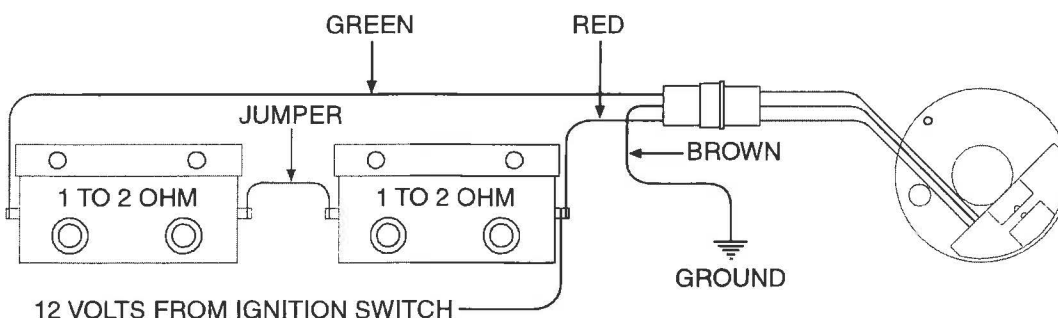
GREEN WIRE: Ignition trigger. Connect to coil (-) terminal.

BROWN WIRE: Ground for the MODULE. Connect to ENGINE BLOCK GROUND. Clean away any grease, oil, and paint from the mounting surface before the connection is made.

SINGLE PLUG HEADS



DUAL PLUG HEADS



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