

Made In USA



603-668-6315

#3154

Twin Power Ignition

1971-1999 Big Twins 1971-Up XL

T/R # 21-6500

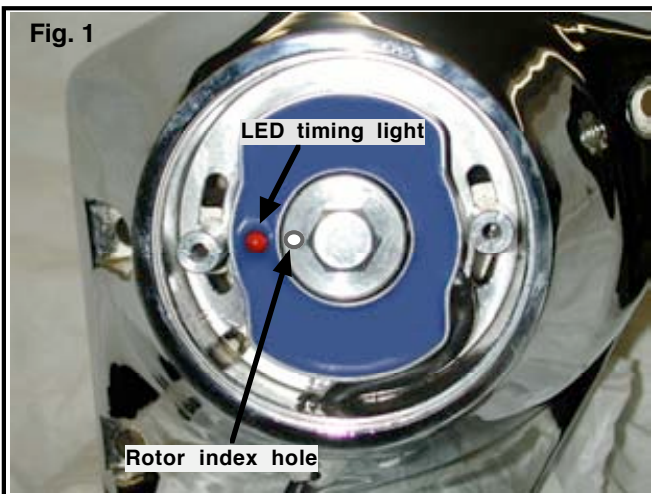


Fig. 1

LED timing light

Rotor index hole

1. Remove old ignition assembly.
2. Rotate motor until front cylinder's full advance timing mark is centered in crankcase viewing hole, during the front cylinder's compression stroke. Note; You are on the compression stroke when the cylinder valves are closed, and you can rotate the push rods with your fingers.
3. Install high quality auto advance assembly.
4. Install the new ignition, keeping the rotor index hole in line with the red LED light. **5. This ignition can be used as a single fire or dual fire ignition, depending on which way the ignition is wired to the coil.**

Wire to Fig. 3 for single fire, or to Fig. 4 for dual fire.

5. After your coils are wired, reread paragraph 3. If your installation is correct, turn the ignition switch on. The red LED light will be on, which means the coil is powered. If the light is not on, rotate the ignition housing slightly until light flashes on. Using a right angle scribe, rotate the trigger rotor c/clockwise, to full advance position (see Fig 2)
6. The red LED light should go off at the full advanced position. If not, hold the rotor at full advance and rotate the ignition housing until it does. The coil & spark plug will fire when the LED light shuts off.
7. The timing procedure is the same for both single & dual fire operation. The front & rear cylinders are internally timed and accurate to 1°.

Use With 3 to 5 Ohm Coils

For 12 Volt systems only

Single Fire

Dual Fire

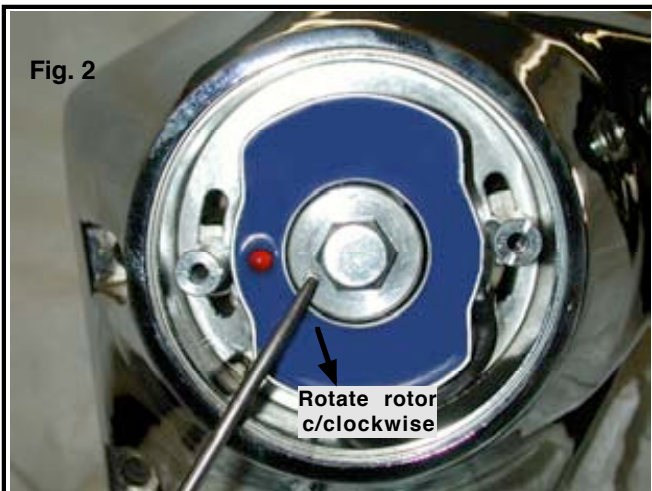


Fig. 2

Rotate rotor c/clockwise

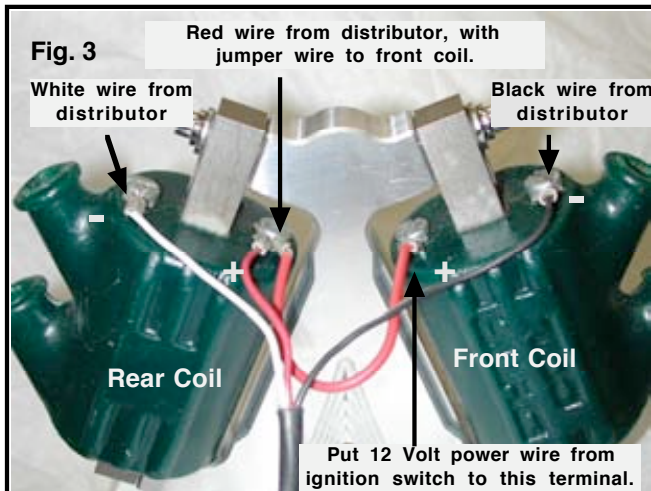


Fig. 3

Red wire from distributor, with jumper wire to front coil.

White wire from distributor

Black wire from distributor

Rear Coil

Front Coil

Put 12 Volt power wire from ignition switch to this terminal.

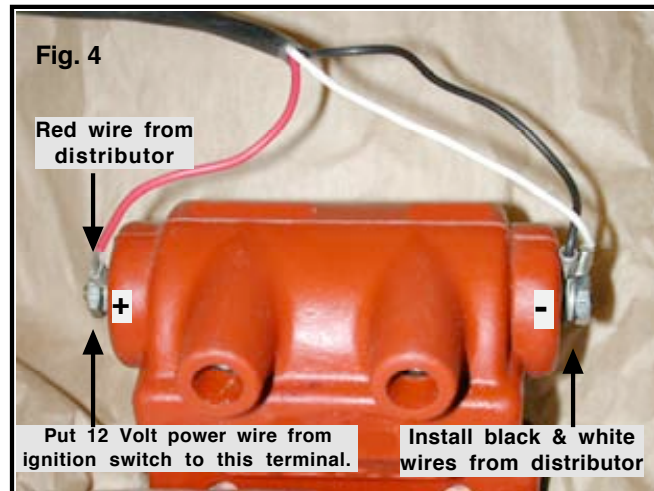


Fig. 4

Red wire from distributor

Put 12 Volt power wire from ignition switch to this terminal.

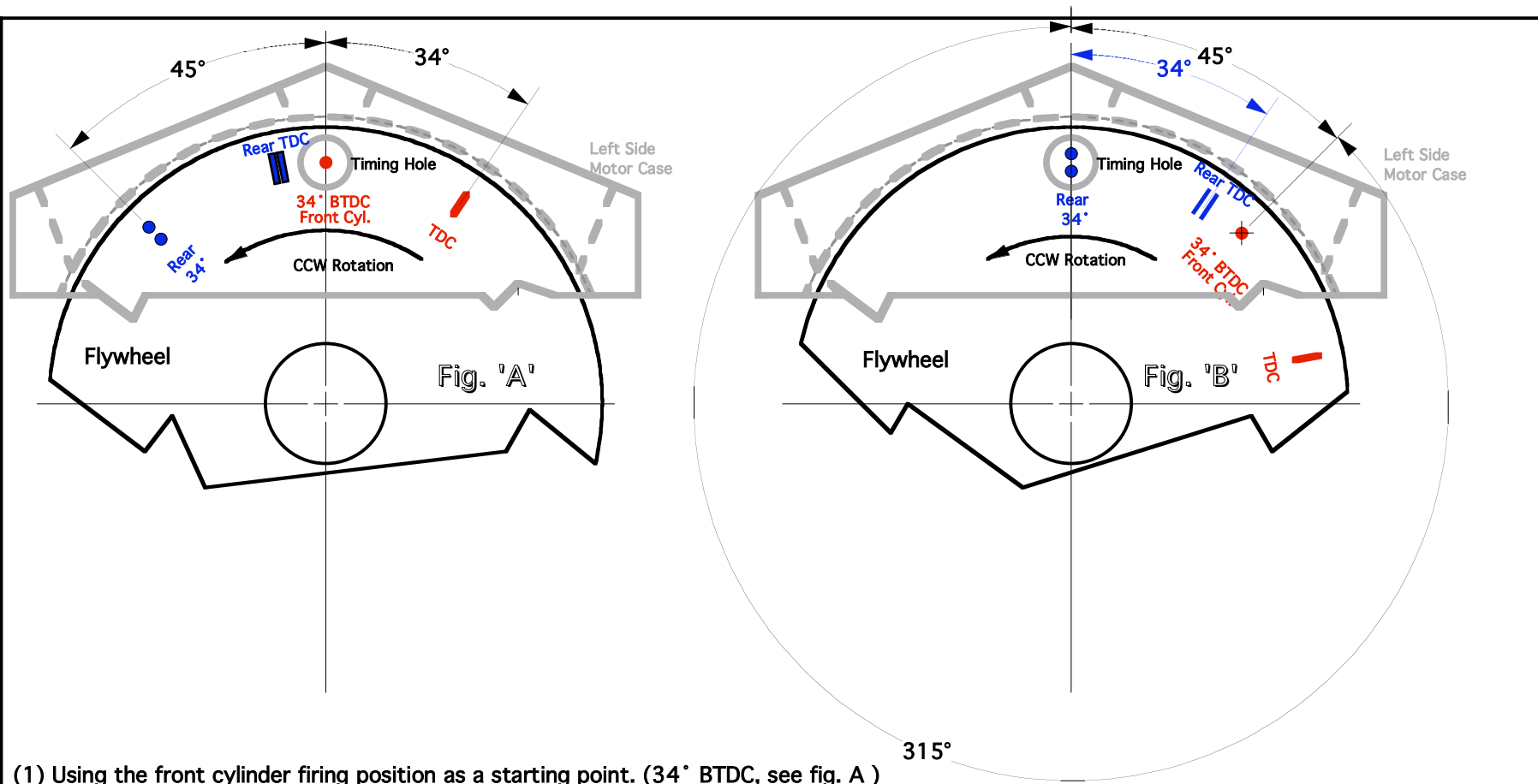
Install black & white wires from distributor

Store

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35 Elm St.
Manchester, NH. 03101
603-606-6069

Office & Manufacturing

Motorway Engineering Co.
85 Hancock St.
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- (1) Using the front cylinder firing position as a starting point. (34° BTDC, see fig. A)
- (2) The rear cylinder will fire at 315° ccw rotation. (360° minus the 45° between cylinders. see fig. B)
- (3) The front cylinder will fire in an additional 405° (360° minus the 45° between Cylinders.)
- (4) This completes 720° of flywheel rotation necessary for the four piston strokes.

DECIMAL .005	
FRACT. 1/64	
ANGULAR 1 Deg.	
SHEET # 2 OF	Title Ignition Timing Marks
SCALE 1:1	Dwg. No. 3154-5