

750 H2 and 500 H1-D Ignition Electric Parts Test

Last update: 2009-01-05

This is test method of individual electric parts. Do all test at room temperature. In the following tests using an ohmmeter, some meters will have to be connected in reverse to obtain the correct readings. "+" and "-" indicate the positive and negative meter leads, respectively. All resistance readings in ohms are approximate. If meter readings do not correspond to the valves given, the part can be considered defective.

- Ignition Unit
- Ignition Rectifier Unit
- Regulator
- AC Generator
- Signal Pickup Coils
- Ignition Coils

Ignition Unit



Step 1. Check resistance between the Black and Light Green wires using the Rx10 range of the ohmmeter.

Connect to +	Connect to -	R x 10 = Value
Black	Light Green	∞ (no reading)
Light Green	Black	∞ (no reading)

Step 2. Check resistance between the Light Green and Red wires using the Rx100 range of the ohmmeter.

Connect to +	Connect to -	R x 100 = Value
Black	Red	For either measurement the meter needle should jump and then return to infinity (no reading).
Red	Black	

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Ignition Rectifier Unit



Step 1. Measure resistance between the Black-White lead and the Blue, White and Green leads, one at a time, using the Rx10 ohmmeter range.

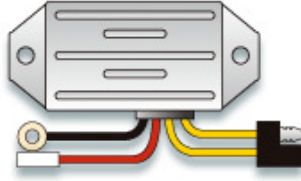
Connect to +	Connect to -	R x 10 = Value
Black White	Blue	120 — 35 Ω
Black White	Green	120 — 35 Ω
Black White	White	75 — 250 Ω
Blue	Black White	∞ (no reading)
Green	Black White	∞ (no reading)
White	Black White	∞ (no reading)

Step 2. Measure resistance between the Black-White lead and each Light-Green wire in turn, using the Rx10 ohmmeter range.

Connect to +	Connect to -	R x 10 = Value
Black White	Light Green	∞ (no reading)
Light Green	Black White	25 — 250 Ω

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Regulator



Step 1. Measure resistance between the Black and Red lead using the Rx10 ohmmeter range.

Connect to +	Connect to -	R x 10 = Value
Black	Red	700 — 1,000 Ω
Red	Black	70 — 200 Ω

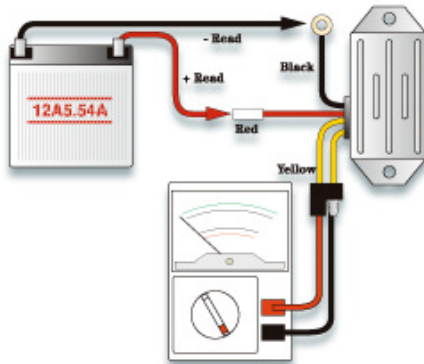
Step 2. Measure resistance between the Black and Yellow lead using the Rx10 ohmmeter range.

Connect to +	Connect to -	R x 10 = Value
Black	Yellow	1,000 — 1,200 Ω
Yellow	Black	25 — 100 Ω

Step 3. Measure resistance between the Red lead and Yellow lead using the Rx10 ohmmeter range.

Connect to +	Connect to -	R x 10 = Value
Red	Yellow	25 — 90 Ω
Yellow	Red	One Yellow: Under 2K Ω Other Yellow: Under 6K Ω

Step 4. Connect the battery voltage indicated - to the Black lead and + to the Red lead. Then measure resistance between the two Yellow leads.



16VDC

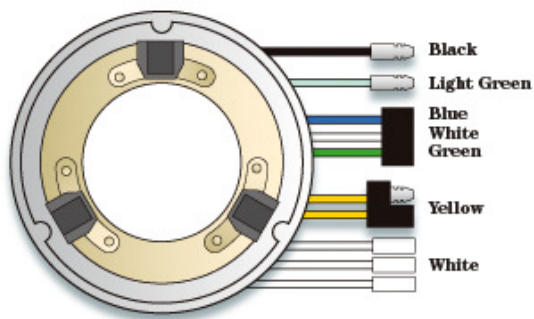
Connect to +	Connect to -	16VDC = Value
Yellow	Yellow	∞ (no reading)
Reversed		500 Ω

Less than 14VDC

Connect to +	Connect to -	14VDC = Value
Yellow	Yellow	∞ (no reading)

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AC Generator

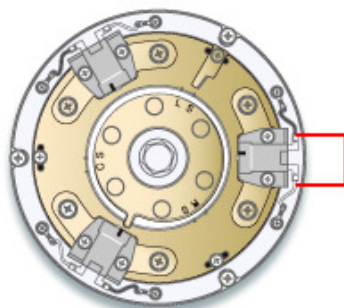


Step 1. Generator resistance readings should be taken with the generator at normal temperatures, not when it is excessively hot from running. *A light blue parts are not mentioned in Shop manual.

Connect to +	Connect to -	R x 10 = Value
Yellow	Yellow	0.4 Ω
either Yellow	Ground	∞ (no reading)
Blue	Green	5.0 Ω
White	Green	200 Ω
Black	each White	200 Ω
Black	Stator body	0 Ω
Green	Ground	∞ (no reading)

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Signal Pickup Coils



Step 1. Measure resistance between the Black and White

Connect to +	Connect to -	R x 10 = Value
White	Black	200 Ω

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Ignition Coils



Step 1. Resistance between the White lead and the core.

Connect to +	Connect to -	R x 10 = Value
White	Core	0.64 — 96 Ω