

### COIL TEST DATA

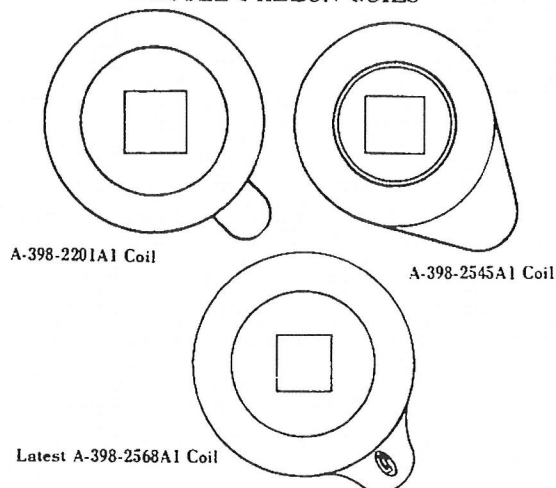
Kiekhaefer Part No.	Manufacturer	Mfg. No.	Max. Amps.	Secondary Continuity		Primary Resist. (Ohms)	
				Min.	Max.	Min.	Max.
A-30-204	Scintilla	10-38222Y	2.3		60		
A-399-125	Scintilla	10-70132	2.1		50		
A-399-756	Scintilla	10-70100	2.1		50		
A-398-716	Phelon	F-608	2.5	42	65		
A-398-173	Phelon	F-1835	2.5	42	65		
A-398-2201	Phelon	FG-6446	2.0	45	60	.45	.60
A-398-2545	Phelon	FG-7168	2.0	35	50	.50	.65
A-398-2568	Phelon	FG-7202	1.8	40	60	.50	.65
A-397-361	Fair.-Morse	H-2477	2	40	60		
A-397-361	Fair.-Morse	T-2477	2	40	60		
A-397-361	Fair.-Morse	E-2477C	2	40	60		
A-397-430	Fair.-Morse	QY-2477C	2	45	60		
A-396-648	Eiseman	27894	1.60	40	60		
A-395-679	Wico	X-2156	1.90	40	60		
A-394-1128A1	Kiekhaefer	A-394-1128	1.80*	55	65		
A-26433	Delco-Remy	1115106	0.9	55	65	.9	1.2
A-32193	Auto-Lite	200673	1.1	60	70	1.1	1.5

\* Off Plate

#### NOTES:

1. Test on complete magneto with points open. In some cases the FM coils reverse red and black primary test leads to get better reading.

### IDENTIFICATION OF LATE STYLE PHELON COILS



2. The coil tester must check the primary and secondary windings for open circuits, shorts or high resistance. In addition, the coil lead wire, its terminal and insulation, also should be checked during this portion of test.

### CONDENSER TEST DATA

Kiekhaefer Part No.	Manufacturer	Mfgr. No.	Mfd. Cap.
A-399-759	Scintilla	10-70141	.17-.21
A-399-123	Scintilla	10-82238	.17-.21
A-398-713	Phelon	FG-607	.15-.19
A-398-176	Phelon	FG-1807	.22-.27
A-398-693	Phelon	FG-1770	.14-.18
A-398-2203	Phelon	FG-6453	.14-.20
A-396-650	Eiseman	24235	.19-.23
A-395-684	Wico	X-2186	.16-.20
A-397-741	Fairbanks-Morse	"S"-2433	.28-.32
A-397-359	Fairbanks-Morse	M-2433	.18-.22
A-397-874	Fairbanks-Morse	KX-2433	.28-.35
A-394-1130	Kiekhaefer		.28-.35
A-393-1283	Delco-Remy		.18-.23

#### NOTES:

- Leakage and series resistance values should be within proper limits set by manufacturer of the particular condenser checker.
- Condensers should be tested for breakdown, leakage capacitance and series resistance.
- Do not heat condenser prior to testing in attempt to duplicate engine operating conditions.
- A condenser should be tapped while being tested to make sure there is no loose element or connection which will not show up if condenser is not tapped.

### RECTIFIER TEST PROCEDURE

Measure Direct Current Resistance on Magneto Analyzer or Ohm Meter

Refer to "Test with Magneto Analyzer", this section.

To test rectifier and find cause of rectifier failure, refer to "MercElectric Testing & Trouble Chart", Outboard Master Service Manual, Section VII.

### IGNITION COIL BALLAST AND RESISTOR TEST DATA

1. MERC-O-TRONIC 6-VOLT TESTER \*

2. MERC-O-TRONIC DIRECT OHM SCALE READINGS

Part No.	Min.	Max.	Part No.	Min.	Max.
A-393-1286	2.6	3.5	A-393-1286	1.3	1.7
A-393-1482	3.4	3.6	A-393-1482	2.0	2.4
A-393-1572	3.8	4.0	A-393-1572	3.0	3.4
			A-32227	.41	.52

\* Conversion Scale - Not direct ohm readings

- Scale No. 2 is used for checking lower ohm resistance values on Magneto Analyzer (C-91-25213). Place selector switch on No. 2 Distributor Resistance position. Do not clip leads together.
- Turn No. 2 scale meter adjustment knob to adjust meter needle evenly with Figure 5 on right-hand side of scale No. 1. Analyzer is now ready to test low ohm resistance values.
- Ignition coil ballast and resistor should be removed from engine for testing. After completing above Analyzer settings, fasten small red and black test leads to terminals of resistor. Resistor test value can be read on Scale No. 1. Readings are shown in chart above. Replace ballasts and resistors not meeting these specifications.  
Refer to "Test with Magneto Analyzer", this section.
- Place selector switch on Scale No. 3 (Coil Continuity). Connect small red test lead to either terminal of ballast and connect small black test lead to metal case. If continuity exists, ballast is grounded and must be replaced.