

# INSTRUCTION SHEET

FOR

Bird Model ~~8329~~ Load/RF Coupler

8392

## Description

The model ~~8329~~<sup>8392</sup> Load/Coupler Set consists of a Bird model 8892-300 Termaline<sup>®</sup> load, model 4712-000 Thruline<sup>®</sup> line section and model 4265-030 RF coupler

The model 8892-300 load resistor is equipped with a 1-5/8 inch EIA swivel flange input connector. This flange will mate with a fixed flange 1-5/8 inch rigid transmission line regardless of orientation. The Thruline<sup>®</sup> line section has one fixed flange and one swivel flange.

## Assembly

When assembling the line section to the load, connect the fixed flange of the line section, to the swivel flange of the load. Use the coupling kit, part number 4712-020 supplied with this equipment for this connection. Use the following procedure for assembly of this unit.

- 1) Insert the bullet, from the coupling kit, into the center conductor of the load and push in until firmly seated.
- 2) Engage the center conductor of the line section, fixed flange side, on the bullet and push the line section on until completely seated.
- 3) Align flanges until all holes match and index pin enters the index hole. Fasten the flanges loosely together with the four nut and bolt sets provided.

- 4) Rotate line section until the element socket is in a convenient position and tighten the nut and bolt sets.
- 5) Insert the model 4265-030 RF coupler into the line section socket. Rotate it until it is firmly seated with the arrow on the identification plate pointing towards the load. The index pin must be firmly against the step in the element socket block. Position the spring loaded clasp over the shoulder of the RF coupler to hold it securely in place.

#### Operational Information

Make sure the arrow is pointing to the load and the index pin of the coupler is firmly against the block so that it cannot rotate further. This will give maximum RF output to which the calibration data is based on. It is possible to decrease the RF coupling by rotating the coupler with the index pin away from the stop, however the output will no longer agree with the recorded calibration data.

Along with this equipment is instruction books covering the usage of the model 4712-000 line section and 8892-300 RF load. Be sure to read these books before operating this equipment, especially the book pertaining to the model 8892-300. Make sure the shipping plug on the load has been replaced with the vent plug before applying power.

Model 8392 Load/RF Coupler

Specifications

Power Rating.....	2000 watts
Frequency.....	500 to 2000MHz
Impedance.....	50 ohms
Input VSWR.....	1.30 maximum
Output VSWR.....	1.30 maximum
Output Attenuation.....	50dB $\pm$ 1.0dB (without calibration data)
Attenuation Data Supplied At.....	500,750,1000,1200,1400,1600, 1800,2000MHz
Accuracy of Calibration Data...	$\pm$ 1/2dB
Ambient Temperature.....	-10°C to 45°C (14°F to 113°F)
Weight.....	61 lbs (28kg)
Physical Dimension.....	17-3/16"H x 7-1/8"W x 30"L (436.6 x 181 x 762mm)

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CALIBRATION DATA

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

<u>Frequency (MHz)</u>	<u>Attenuation(dB)</u>
500	_____
750	_____
1000	_____
1200	_____
1400	_____
1600	_____
1800	_____
2000	_____

Note: Accuracy of calibration data is  $\pm 0.5\text{dB}$

Checked by \_\_\_\_\_

Date \_\_\_\_\_