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Enhanced Eclipse Model 705 Guided Wave Radar Transmitter Bezel Replacement Procedure

This document describes the procedure for replacing the bezel assembly (Z31-2835-xxx) in an Enhanced Eclipse Model 705 Guided Wave Radar transmitter. The transmitter should be removed from the vessel. This operation should be performed in a safe, non-hazardous area by someone with qualifications similar to that of an electrical technician.

TOOLS REQUIRED

1. Standard screwdriver
2. Standard 24 VDC power supply

LCD MENU ITEM SETTINGS

Item	Description	Setting
PrbModel	Probe Model	
PrbMount	Probe Mount	
MeasType	Measurement Type	
LvlUnits	Level Units	
Probe Ln	Probe Length	
Lvl Ofst	Level Offset	
Dielctrc	Dielectric of Process Medium	
LoopCtrl	Loop Control	
Set 4mA	4 mA Setpoint	
Set 20mA	20 mA Setpoint	
Damping	Damping	
Fault	Fault Selection	
BlockDis	Blocking Distance	
Threshold	Threshold	

PROCEDURE

The Eclipse Model 705 Guided Wave Radar transmitter contains electronic components that may be damaged by static electricity present in most work environments.

- A grounded work station is recommended.
- Handle circuit boards only by edges
- **DO NOT** touch components or connector pins

1. Remove both covers from the Model 705 transmitter.
2. Connect the 24 VDC power supply to proper terminals on the wiring board in the upper housing compartment.
3. Apply power to the transmitter.
4. Using the Down arrow key, individually select the menu items listed in the table at left and record each setting.

5. Disconnect the power wires from the transmitter.

6. Verify the correct version by examining the label on the side of the replacement bezel assembly.

Z31-2835-001: SIL 1 version with LCD and keypad

Z31-2835-002: SIL 1 version without LCD and keypad

Z31-2835-003: SIL 2 version with LCD and keypad

Z31-2835-004: SIL 2 version without LCD and keypad

7. Remove the two mounting screws holding the bezel assembly in place. Gently lift the bezel assembly from the housing.

CAUTION: Severe bends or kinks in the HF cable will affect proper operation.

8. Carefully remove the high frequency (HF) cable from the bottom board of the bezel assembly by gently pulling on it.

9. Connect the HF cable to the replacement bezel assembly.

10. Insert the new bezel assembly into the housing and secure using the two mounting screws. To avoid damage to the power pins or pinching of the HF cable, do not force the bezel assembly into the housing.

11. Apply power to the transmitter. Enter in all configuration parameters recorded in step 4.

12. Dispose of the original bezel assembly. Do not use as a spare part.



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