

Troubleshooting Chart

SYMPTOM	POSSIBLE CAUSE
Fuse blows when installed.	<ol style="list-style-type: none"> 1. Power leads reversed at Amplifier. 2. C14 installed backwards. 3. C11, C12, C13, C14, C15 or C16 shorted or installed backward. 4. Q1 or Q2. 5. Red power wire shorted to automobile body during installation.
Fuse blows when Amplifier is keyed.	<ol style="list-style-type: none"> 1. Amplifier mistuned. 2. Antenna VSWR excessive. 3. Relay contacts not closing properly. 4. Relay improperly wired. 5. Coaxial cable shorted from center conductor to braid.
Output power is low.	<ol style="list-style-type: none"> 1. Drive power is low. 2. Amplifier mistuned. 3. Relay contacts misaligned. 4. Relay improperly wired. 5. Antenna VSWR excessive. 6. Q1 or Q2.
Relay will not pull in.	<ol style="list-style-type: none"> 1. Drive is low. 2. D1, C18, Q3. 3. TP1 and TP2 not connected together or C18 not connected. 4. Relay (to check relay, jumper TP3 to TP4; relay should pull in). 5. Fuse blown. 6. Input and antenna connections reversed.
Relay pulls in when battery is connected.	<ol style="list-style-type: none"> 1. Q3 or D2. 2. TP3 and TP4 jumper not removed after alignment.
C1, C2, C16 or C17 will not peak (capacitors fully open or compressed).	<ol style="list-style-type: none"> 1. L1 and L9 reversed or wrong dimensions. 2. Antenna VSWR excessive.
Received signals weak with Amplifier in line.	<ol style="list-style-type: none"> 1. Relay contacts not operating properly. 2. Relay wired incorrectly. 3. Amplifier mistuned. (Low frequency oscillation will cause the received signal to sound noisy, or weak.)

DIODE AMPLIFIER SPECIFICATIONS

Frequency Range	143 to 149 MHz (any 1-1/2 MHz segment).
Power Output	See the graph on Page 25.
Power Input (drive power required)	5 to 15 watts FM signal.
Input/Output Impedance	50 ohms.
Input VSWR	1.5:1 maximum.
Load VSWR	3:1 maximum.
Power Supply Required	12 to 16 VDC, 7 Amperes maximum, negative ground.
Standby Current	1 mA.
Operating Temperature Range	-30°F to +140°F.
Dimensions	3" high x 5-1/2" deep x 4-1/4" wide (excluding mounting flanges).
Weight	2 lbs.

The Heath Company reserves the right to discontinue products and to change specifications at any time without incurring any obligation to incorporate new features in products previously sold.

