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# STERLING TRUCKS

Troubleshooting Guide For  
Multiband Antenna System

# Troubleshooting Part Numbers and Models

## VERIFYING STERLING MULTIBAND ANTENNA SYSTEM

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<u>Antenna System Type</u>	<u>Whip</u>		<u>Multiplexer</u>	
	<u>RAMI P/N</u>	<u>Sterling P/N</u>	<u>RAMI P/N</u>	<u>Sterling P/N</u>
Dual Whip System	MASC3AS1	06-32595-008	MASC4AS1	06-32594-008
Single Whip System	MASC3AS1S	06-32595-009	MASC4AS1S	06-32594-009

For information pertaining to ground strap installation on some composite cab doors, *See Sterling Service Bulletin 54-35.*

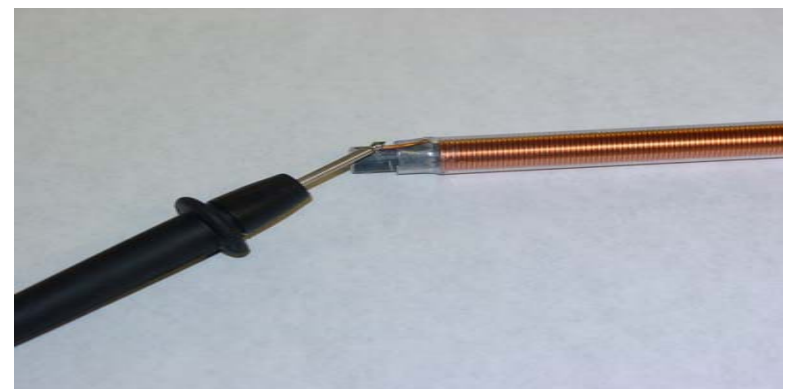
Whip lengths available: 30", 36", 42", 48" & 54"  
Not all whip lengths are available for all Antenna Systems.  
Contact R.A. Miller Industries for details.

# Troubleshooting Whip

## Whip Antenna:

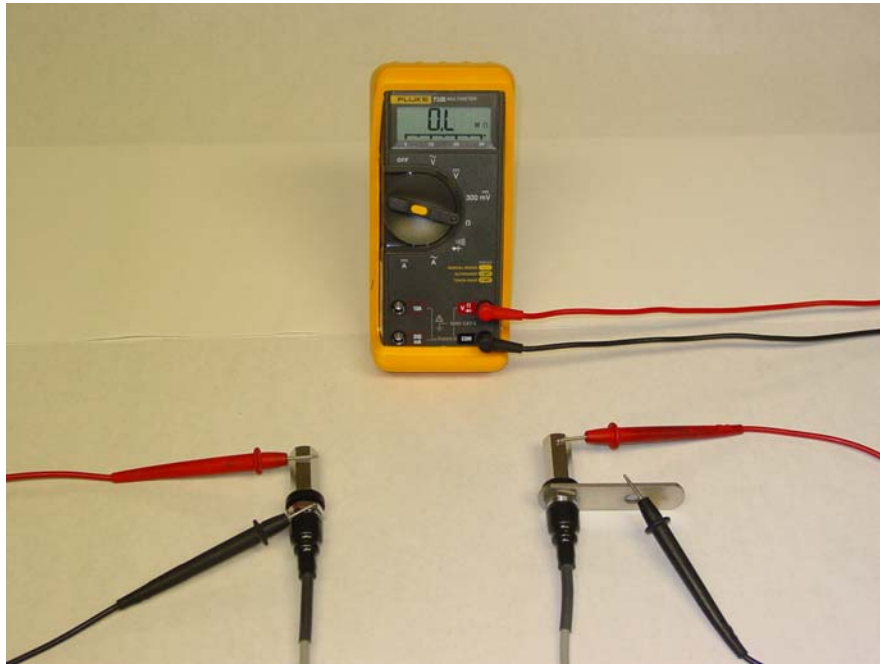
Verify that each whip antenna has a good connection/solder joint at the ferrule end of the antenna. Remove the antenna cap and make a small cut in the heat shrink if required to expose the wire. Do not allow the wire to come out of the slot and uncoil. Using an ohmmeter, check for dc continuity from the antenna ferrule to the tip of the coiled wire at the opposite end of the antenna. While checking for continuity, flex/twist the ferrule end to check for intermittent breaks at the solder joint.

NOTE: The wire is coated with an insulating material. Before performing a continuity check, lightly sand the coiled wire end to expose a small “uncoated” portion near the tip of the antenna.



# Troubleshooting Bracket

With the CB and AM/FM/WB cables disconnected from the radios, test the following:



Using an ohmmeter, verify that the antenna mount bracket assembly has no dc continuity between the standoff nut and the ground portion.

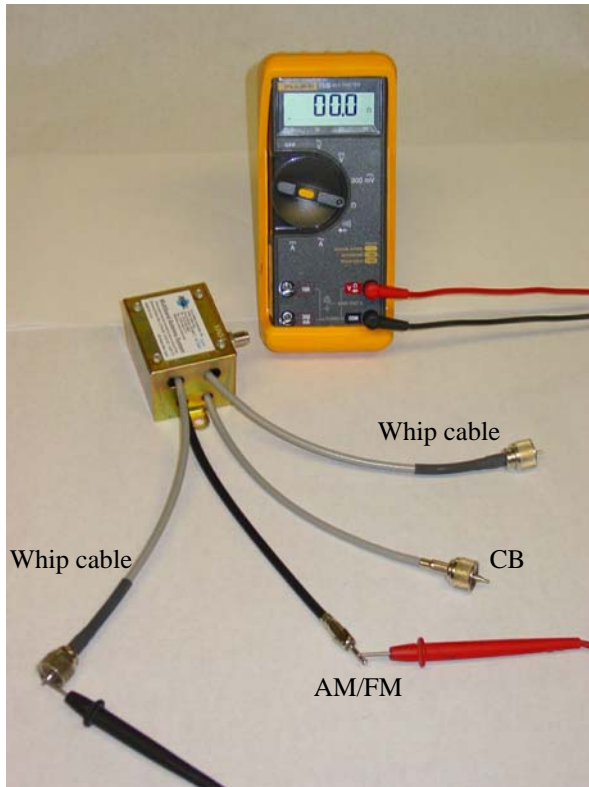


Then verify that the ground portion of the bracket has dc continuity to chassis ground (less than 5 ohms).

# Troubleshooting Multiplexer Box

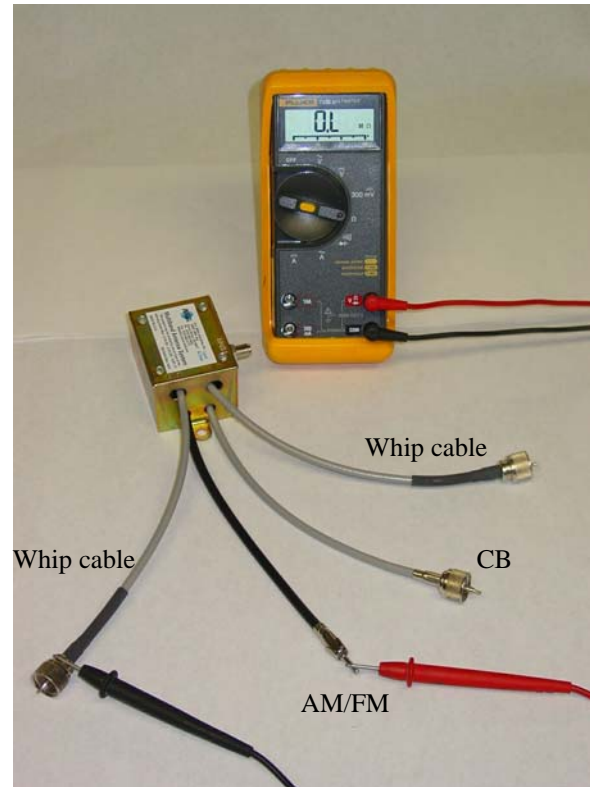
\*Testing continuity through the CB cable is no longer possible as the internal components do not provide a D.C. path. To verify continuity through the whip antenna cables, checks are made to the AM/FM Motorola connector.

Center to Center



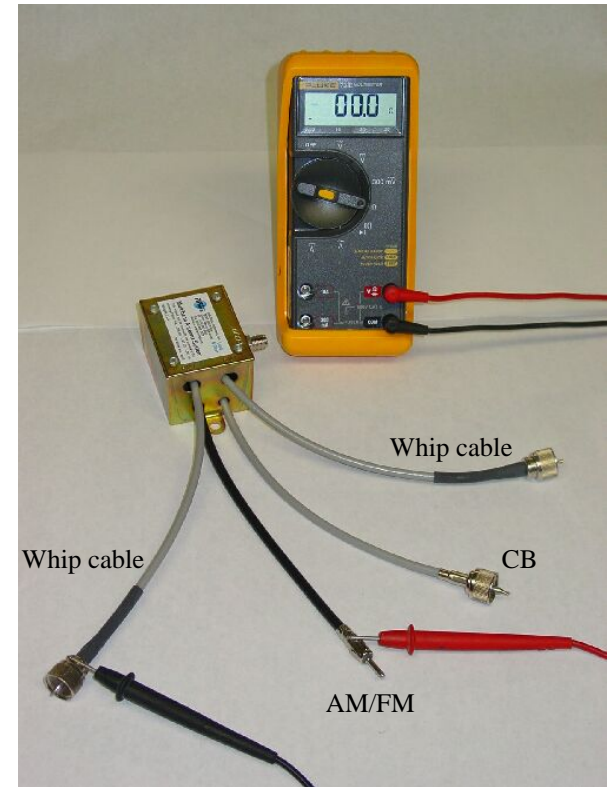
With cables disconnected from the bracket mount assemblies Test from the AM/FM cable center conductor to the whip cable center conductor – dc continuity

Center to Outer



With cables disconnected from the bracket mount assemblies Test from the AM/FM cable center conductor to the whip cable outer conductor – no dc continuity

Outer to Outer



With cables disconnected from the bracket mount assemblies Test from the outer shell of the AM/FM cable connector to the whip cable outer conductor – dc continuity