

Instructions For Installation And Testing Of Servo Transducers

NOTE: These tests to be preformed whenever a transducer is changed, and as part of quarterly test.

I Installing Transducers.

- A. Mount transducers so that they are tight against the ball of the rail.
- B. Before installation, inspect the metal tubes that reinforce the bolt holes in the transducers. Make sure they do not extend past the sides of the transducer. If they do, cut off any excess length.
- C. When mounting, notice that there are four(4) bolt holes in the transducers. Use only two(2) holes and use one upper and one lower hole. This will insure the transducers cannot rock.

II Testing

- A. Check for proper polarity. Use a Simpson 260 meter set on the 2.5 VDC scale.
- B. Servo 9000 Hot Box Detector.
 1. Connect meter with black lead on terminal marked transducer common (ARTN) and red lead on terminal marked transducer (A).
 2. Using a large piece of metal (rail anchor, spike or bonding hammer) slowly approach transducer from directly above until it is setting on transducer.
 3. As metal approaches transducer the meter should go positive.
 4. Remove metal from transducer and meter should go negative.
 5. If polarity is wrong transpose wires and test again.
 6. Note: Polarity must be right on all transducers on a 9000 system; i.e., A, B, C, & D or system will give gating errors.
- C. Servo 8909 Hot Box Detector
 1. Connect meter with black lead on terminal marked transducer common (ARTN) and red lead on terminal marked transducer (A).
 2. Using a large piece of metal (rail anchor, spike or bonding hammer) slowly approach transducer from directly above until it is setting on transducer.
 3. As metal approaches transducer the meter will go negative.
 4. Remove metal from transducer and meter will go positive.
 5. If polarity is wrong transpose wires and test again.
- D. Servo 8808 Hot Box Detector
 1. Same test as for Servo 9000 System.
- E. Servo 7621, 7707 & 7707D Hot Box Detectors
 1. Same test as for Servo 8909 System.

REFERENCE

<u>Type System</u>	<u>Polarity When Approaching Transducer</u>
Servo 9000	Positive (+)
Servo 8909	Negative (-)
Servo 8808	Positive (+)
Servo 7707	Negative (-)