Installation Procedure

1. Remove, trace, and tag all wires from springs 1 and 2 of the C relay.
2. Remove spring contact pileup and armature from C relay.
4. Place wires tagged 5A and 3E from spring 1 on pin 2.
   A. Place wire tagged '2 VERT INT' from spring 1 on pin 3.
5. Place tagged wire(s) from spring 2 on pin 1.
6. Add diode (furnished) wired as shown from pin 2 to pin 3.
7. Remove wire(s) from coil terminal 'LM' and place on pin 4.
8. Remove wire(s) from coil terminal 'T' and splice together.
9. Remove wire(s) from coil terminal 'RM' and place on pin 6.
10. Remove wire from coil terminal 'B' and place on pin 7.
11. Place battery strap from WCR relay pin 5 to a convenient battery connection.
12. Add 390 ohm resistor (furnished) from pin 7 to spring 1 of relay 'D'.
13. Remove wire from 7A to B(82A) 150 ohm resistor.
   A. Place strap from 4A to 7A.
14. Coil will no longer be in the circuit and may be removed or left in place.

Should your circuit be wired differently or there be any questions or additional information needed, please call Dale Briggs at 800-433-3337; in Texas call 800-792-3441.

WHERE THE INSTRUCTIONS CALL FOR MOVING A WIRE, MAKE CERTAIN THAT ALL WIRES ON THAT TERMINAL ARE MOVED AND RECONNECTED WHERE SPECIFIED.

TSI TELCO SYSTEMS, INC.
P.O. BOX 7654 WACO, TX.
**3AR RELAY INSTALLATION INFORMATION FOR TSI-3AR ELECTRONIC PULSING RELAY ON WE SX5 SELECTORS WITH 3 SPRING "A" RELAY.**

### Installation Procedure

1. Remove and tag wires from 'A' relay contact springs 1, 2, and 3.
2. Remove contact spring assembly from heelpiece.
3. Remove armature.
4. Remove cover guide stud from heelpiece and place on Relay 'C.'
5. Install TSI-3AR relay on heelpiece using mounting screw provided.
6A. Remove battery wire from coil terminal 'B' and place on TSI-3AR Pin 6.
   B. Add strap from TSI-3AR Pin 4 to battery coil terminal 'B'.
7A. Remove wire from coil terminal 'RM' and place on TSI-3AR Pin 7.
   B. Add strap from TSI-3AR Pin 5 to coil terminal 'RM'.
8. Make other connections as shown in block diagram; wire tagged 1 to Pin 1, wire tagged 2 to Pin 2, wire tagged 3 to Pin 3.

Should your circuit be wired differently or there be any questions or additional information needed, please call Dale Briggs at 800-433-3337; In Texas call 800-792-3441.

---

**WHERE THE INSTRUCTIONS CALL FOR MOVING A WIRE MAKE CERTAIN THAT ALL WIRES ON THAT TERMINAL ARE MOVED AND RECONNECTED WHERE SPECIFIED.**
3AR RELAY

INSTALLATION INFORMATION FOR
TSI-3AR ELECTRONIC PULSING
RELAY ON WE SXS SELECTORS
WITH 3 SPRING 'A' RELAY.

Installation Procedure

1. Remove and tag wires from 'A' relay contact springs 1, 2, and 3.
2. Remove contact spring assembly from heelpiece.
3. Remove armature.
4. Remove cover guide stud from heelpiece and place on Relay 'C'.
5. Install TSI-3AR relay on heelpiece using mounting screw provided.

6A. Remove battery wire from coil terminal 'B' and place on TSI-3AR Pin 6.
6B. Add strap from TSI-3AR Pin 4 to battery coil terminal 'B'.
7A. Remove wire from coil terminal 'RM' and place on TSI-3AR Pin 7.
7B. Add strap from TSI-3AR Pin 5 to coil terminal 'RM'.
8. Make other connections as shown in block diagram; wire tagged 1 to Pin 1, wire tagged 2 to Pin 2, wire tagged 3 to Pin 3.

If your circuit is wired differently or there are any questions or additional information needed, please call Bob Forsythe at 800-433-3337; in Texas call 800-792-3441.

WHERE THE INSTRUCTIONS CALL FOR MOVING A WIRE, MAKE CERTAIN THAT ALL WIRES ON THAT TERMINAL ARE MOVED AND RECONNECTED WHERE SPECIFIED.
3AR RELAY INSTALLATION INFORMATION FOR TSI-3AR ELECTRONIC PULSING RELAY ON WE SXS CONNECTORS WITH 3 SPRING "A" RELAY.

Installation Procedure

1. Remove and tag all wires from 'A' relay contact springs 1, 2, and 3.
2. Remove contact spring assembly from heelpiece.
3. Remove armature.
4. Remove cover guide stud from heelpiece and place on Relay 'C'.
5. Install TSI-3AR relay on heelpiece using mounting screw provided.

6A. Remove battery wires from coil terminal (~48V) and place on TSI-3AR pin 6.
   B. Add strap from TSI-3AR pin 4 to battery coil terminal from which wires in item 6A were removed.

7A. Remove ground wires from ground coil terminal and place on TSI-3AR pin 7.
   B. Add strap from TSI-3AR pin 5 to ground coil terminal from which wires in item 7A were removed.

8. Make other connections as shown in block diagram; wire tagged 1 to pin 1, wire tagged 2 to pin 2, wire tagged 3 to pin 3.

Should your circuit be wired differently or there be any questions or additional information needed, please call Bob Forsythe at 800-433-3337; in Texas call 800-792-3441.

WHERE THE INSTRUCTIONS CALL FOR MOVING A WIRE MAKE CERTAIN THAT ALL WIRES ON THAT TERMINAL ARE MOVED AND RECONNECTED WHERE SPECIFIED.