INSTALLATION INFORMATION FOR TSI-3WA ELECTRONIC PULSATORY RELAY ON WE SXS SELECTORS WITH 5 SPRING "A" RELAY.

THESE SPRINGS ARE NOT PART OF "A" RELAY ON THIS CIRCUIT.

WHERE THE INSTRUCTIONS CALL FOR MOVING A WIRE, MAKE CERTAIN THAT ALL WIRES ON THAT TERMINAL ARE MOVED AND RECONNECTED WHERE SPECIFIED.
3WA RELAY INSTALLATION INFORMATION FOR
TSI-3WA ELECTRONIC PULSING
RELAY ON WE SXS SELECTORS
WITH 5 SPRING "A" RELAY.

PERM SIGNAL
TIMING CKT

THRU PS 750Ω WDG TO BATTERY

ID IE (ZK WIRING)

T B RELAY COIL

TSI-3 WA

① NC
② GRD
③ NO
④ -COIL
⑤ CG
⑥ -48 V
⑦ CL

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

ARMOT
COIL TERMINAL
DESIGNATIONS AS
SEEN FROM REAR
OF SWITCH.

A' RELAY

ADD STRAP

TMELCO SYSTEMS , INC.
P.O. BOX 7654 WACO, TX.

INSTALLATION INSTRUCTIONS
3 WA RELAY

Craig W. Blanchard SD-30976-01-1 16523 B

REVISIONS 7-1-84 A' RELAY WE SXS SELECTORS
3WA RELAY INSTALLATION INFORMATION FOR
TSI-3WA ELECTRONIC PULSING
RELAY ON WE SXS SELECTORS
WITH 5 SPRING "A" RELAY.

THESE SPRINGS ARE NOT PART OF "A" RELAY ON THIS CIRCUIT.

INSTALLATION PROCEDURE
'A' RELAY REPLACEMENT
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-3WA relay on heelpiece using 6—32 x 7/8" screw provided.
6. Remove negative battery wire from coil terminal 'B' and place on TSI-3WA Pin 6.
7. Add strap from TSI-3WA Pin 4 to negative battery coil terminal 'B'.
8. Pins 5 and 7 of the TSI-3WA relay will not be wired for this application as contact springs 4 and 5 are not a part of this 'A' relay.
9. Make other connections as shown in block diagram under "TSI-3WA."

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

TELCO SYSTEMS, INC.
P.O. BOX 7654 WACO, TX

INSTALLATION INSTRUCTIONS
3WA RELAY

Craig W. Blanchard 602-333-011

REVISIONS 7-1-84 WE SXS SELECTORS
3WA RELAY INSTALLATION INFORMATION FOR TSI-3WA ELECTRONIC PULSING RELAY ON WE SXS SELECTORS WITH 5 SPRING "A" RELAY.

PERM SIGNAL TIMING CKT

THRU PS 750Ω WDG TO BATTERY

1

2

1D IE (ZK WIRING)

3

T B RELAY COIL

TSI-3WA

1 NC

2 GRD

3 NO

4 COIL

5 -48V

6 -48V

7 CL

INSTALLATION PROCEDURE 'A' RELAY REPLACEMENT

1. Remove and tag wires from 'A' relay contact springs 1 through 5.
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-3WA relay on heelpiece using 6-32 x 7/8" screw provided.
6. Remove negative battery wire from coil terminal 'B' and place on TSI-3WA Pin 6.
7. Add strap from TSI-3WA Pin 4 to negative battery coil terminal 'B'.
8. Make other connections as shown in block diagram under "TSI-3WA."
9. Wires from contact springs 4 and 5 are shown for ZL wiring. For ZM wiring reverse terminations on TSI-3WA pins 5 and 7.

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.

TELCO SYSTEMS, INC.
P.O. BOX 7654 WACO, TX.

INSTALLATION INSTRUCTIONS 3 WA RELAY

DATE: 7-1-84 'A' RELAY

WE SXS SELECTORS

REVISIONS 7-1-84 'A' RELAY
3WA RELAY INSTALLATION INFORMATION FOR
TSI-3WA ELECTRONIC PULSING
RELAY ON WE SXS SELECTORS
WITH 5 SPRING “A” RELAY.

INSTALLATION PROCEDURE
‘A’ RELAY REPLACEMENT

1. Remove and tag wires from ‘A’ relay contact springs 1 through 5.
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-3WA relay on heelpiece using 6—32 x 7/8” screw provided.
6. Remove negative battery wire from coil terminal ‘B’ and place on TSI-3WA Pin 6.
7. Add strap from TSI-3WA Pin 4 to negative battery coil terminal ‘B’.
8. Make other connections as shown in block diagram under “TSI-3WA.”

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.

TELCO SYSTEMS, INC.
P.O. BOX 7654, WACO, TX.

INSTALLATION INSTRUCTIONS 3WA RELAY

7-84 DRAWN 1
DATE 155.18D
REMARKS

REVISIONS
2-1-84 A‘ RELAY
WE SXS SELECTORS
INSTALLATION INFORMATION FOR TSI-3WA ELECTRONIC PULSING RELAY ON WE SXS SELECTORS WITH 5 SPRING "A" RELAY.

INSTALLATION PROCEDURE
"A" RELAY REPLACEMENT

1. Remove and tag wires from 'A' relay contact springs 1 through 5.
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-3WA relay on heelpiece using 6—32 x 7/8" screw provided.
6. Remove negative battery wire from coil terminal 'B' and place on TSI-3WA Pin 6.
7. Add strap from TSI-3WA Pin 4 to negative battery coil terminal 'B'.
8. Make other connections as shown in block diagram under "TSI-3WA."

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.

TELCO SYSTEMS, INC.
P.O. BOX 7654 WACO, TX

INSTALLATION INSTRUCTIONS
3 WA RELAY

RM OT BOLM
A' RELAY
COIL TERMINAL DESIGNATIONS AS SEEN FROM REAR OF SWITCH.
INSTALLATION PROCEDURE

1. Remove and tag all wires from 'A' relay contact springs 1 through 5.
2. Remove contact spring assembly and armature from heelpiece.
3. Remove cover guide stud from heelpiece and install on relay 'C'.
4. Install TSI-3WA relay on heelpiece using mounting screw provided.
5. Remove battery wires from coil terminal 'B' and place on TSI-3WA relay pin 6.
6. Add strap from 3WA relay pin 4 to wire terminal 'B'.
7. Connect tagged wires 1-5 to TSI-3WA relay as shown in block diagram. Tagged wire spring 1 to pin 1, spring 2 to pin 2, spring 3 to pin 3, spring 4 to pin 5, spring 5 to pin 7.

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.

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

INSTALLATION PROCEDURE
3 Spring 'A' Relay Replacement Using the TSI-3WA 5 Contact Electronic Relay

1. Remove and tag all wires from 'A' relay contact springs 1 through 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-3WA relay on heelpiece using screw provided.
6. Remove negative battery wire from coil terminal 'B' and place on TSI-3WA pin 6.
7. Add strap from TSI-3WA pin 4 to negative battery coil terminal 'B'.
8. Make other connections as shown in block diagram under 'TSI-3WA'.
   - Contact spring 1 to pin 1.
   - Contact spring 2 to pin 2.
   - Contact spring 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.

TSI TELCO SYSTEMS, INC.
P.O. BOX 7654 WACO, TX.

INSTALLATION INSTRUCTIONS 3 WA RELAY

Craig W. Blanchard  ED-32183-30 15517

REVISIONS 1-17-85 'A' RELAY WE SXS SELECTORS