

## STROMBERG-CARLSON CORP 1704-12BT TELEPHONE WIRING DIAGRAM

### NOTES:

1. When a COMMON SIGNAL is required using standard ringing voltage, the following options are available.
  - A. S-C series 20 straight line ringer. Order package assembly 702100-244 and wire as shown. Exception—when capacitor is required to block D.C. from ringer, connect red ringer wire to network terminal K and strap terminal 26 to network terminal A.
  - B. S-C series 20 ringer for 60 Hz. Order package assembly 702100-260. Connect black wire to terminal 47 and red wire to terminal 26. Do not wire in capacitor A-K.
  - C. Tone ringer. Order package assembly 202100-488 and wire per instruction sheet in package assembly using terminals 26 and 47.
  - D. S-C #2-A buzzer. Order package assembly 206014-621. Connect red wire to terminal 47 and brown wire to terminal 26.
2. When an INTERCOM BUZZER is required, the following options may be used.
  - A. Type 7 (A.C. or D.C.) buzzer. Requires mounting plate package assembly 206289-671.
  - B. "Q" buzzer. Mounted per instruction sheet 300981-191.
  - C. #0-E buzzer (10 to 20 volt D.C.). Order package assembly 206289-681. #0-E buzzer (S-C part no. 212709-000) may also be mounted with type 7 buzzer using package assembly 206289-671.
3. For INTERCOM BUZZER to be audible when off-hook, move buzzer lead from terminal 25 to 21.
4. When telephone is used with W.E. BUSY LAMP FIELD, move slate-green hookswitch wire from terminal 24 to 1 and add 1N1694 diode (S-C part no. 202852-138) as shown.
5. When telephone is used with S-C 1A2 BUSY STATION NUMBER DISPLAY, order diode package assembly 206286-451 and change wiring per instruction sheet in package assembly.
6. When MANUAL EXCLUSION feature is desired, order package assembly 206289-781 and wire as shown. Use terminals 27, 28 and 29 for exclusion on line 1; 32, 33 and 34 for exclusion on line 2; 37, 38 and 39 for exclusion on line 3; 42, 43 and 44 for exclusion on line 4; or 8, 9 and 10 for exclusion on line 5. Connect BL-V, V-BL and V-O conductors of cable to excluded line of excluded stations.
7. When a KEY POSITION is used as a SIGNALING POSITION, remove screw from key plunger to make key position non-locking and make the following wiring change.
  - A. Position 1 - move white wire from terminal 51 to 52.
  - B. Position 2 - move orange wire from terminal 51 to 52.
  - C. Position 3 - move brown wire from terminal 50 to 52.
  - D. Position 4 - move green wire from terminal 49 to 52.
  - E. Position 5 - move slate wire from terminal 49 to 52.
  - F. Position 6 - move white wire from terminal 53 to 52.
  - G. Position 7 - move orange wire from terminal 53 to 52.
  - H. Position 8 - move brown wire from terminal 54 to 52.
  - I. Position 9 - move black wire from terminal 54 to 52.
  - J. Position 10 - move green wire from terminal 55 to 52.
  - K. Position 11 - move slate wire from terminal 55 to 52.
8. To use telephone with 6K-1 SYSTEM.
  - A. Strap terminals IC1 and IC2.
  - B. When position 5 is used as line 5 connect BK-BR to H5. When position 5 is used as a signaling position, connect to 10V (60~ NI) and remove screw from key plunger to make key position non-locking.
  - C. To provide intercom with all buttons released, connect T-I-C and R-I-C to T and R of intercom line circuit for manual intercom as shown. If telephone has one key strip, it is not necessary to connect S-Y and Y-S wires in orange-white binder. If telephone has two key strips, BL-Y and Y-BL line cord wires in blue-White binder must be disconnected from terminals 13 and 14.
9. In S-C 1A2 or W.E. 1A2 SYSTEM, to provide intercom with all buttons released, connect T, R, A, L and LG to dial or manual intercom circuit as shown. If telephone has one key strip, it is not necessary to connect S-Y, Y-S, and Y-BR wires in orange-white binder. If telephone has two key strips, BL-Y, Y-BL and V-S line cord wires in blue-white binder must be disconnected from terminals 13, 14, and 15. S-C 247B KTU is required when using telephone with dial intercom.
10. To convert telephone for use with S-C 6K or W.E. 1A SYSTEMS, the following changes are required. (No changes are required for S-C 6K-1 or W.E. 1A1 systems).
  - A. Remove all wires from terminals 19 and 20 and store.
  - B. Move slate-yellow hookswitch wire from terminal G to terminal 19.
  - C. Move white key wire from terminal GN to terminal 20
  - D. Move black-white key wire from terminal GN to terminal G.
  - E. Move black key wire from terminal 50 and store.
  - F. Move red-white key wire from terminal R to terminal 50.
11. When "B" LEADS are NOT REQUIRED, "B" lead wires may be used as spares or multiplied together as A1 leads on terminals 19 and 20.



