

DF-9009

REAR SEAT EXTENSION
FOR
MANUAL SIMULTANEOUS DUPLEX MTS COMBINATIONS
(OPTION 5855)

The Rear Seat Extension Option may be added to a Simultaneous Duplex MTS Combination to provide an extension handset and control unit for the convenience of a passenger in the back of a vehicle.

The option consists of two modified Control Units (Model 4EC44A13) and a Rear Seat Extension Cable (PL-19C300276-G3). A nameplate, on the rear of each Control Unit (near the connector), identifies one unit as EXTENSION A and the second unit as EXTENSION B. The Channel Selector Switch (S701) in each unit has been modified by Rear Seat Extension Modification Kit PL-4034042-G1, so that Extension B has channel selection priority; however, Extension A can select channels when the Extension B handset is on hook or when all of the Extension B selector buttons are out. Hookswitch S702 has been replaced, by the modification kit, to provide additional contacts as shown in 19D402073.

If desired, the ON-OFF-STBY switch key can be removed from the Extension B (rear seat) unit to maintain ON-OFF-STBY control from the Extension A (front seat) unit. This arrangement decreases the possibility of inadvertently leaving the power on when the vehicle is not in use.

INSTALLATION

If a Simultaneous Duplex MTS Combination with Option 5855 is to be installed in a vehicle, the standard equipment should be installed according to the instructions packaged with the equipment (LBI-8155). The Rear Seat Extension may be installed with the combination or it may be installed at a later date in the following manner.

1. Mount the Model 4EC44A13 - EXTENSION A Control Unit on the dash or on the transmission tunnel post, in the front of the vehicle, in place of the standard Control Unit.
2. Install the Model 4EC44A13 - EXTENSION B Control Unit in the rear seat area, convenient to the passengers.
3. Disconnect the Power/Control plug (Power/Control Cable 19C300276-G1, G2) from the Transmitter-Receiver Case and connect it at the Junction Box in the Rear Seat Extension Cable. Refer to Cable Diagram, Fig. 1.

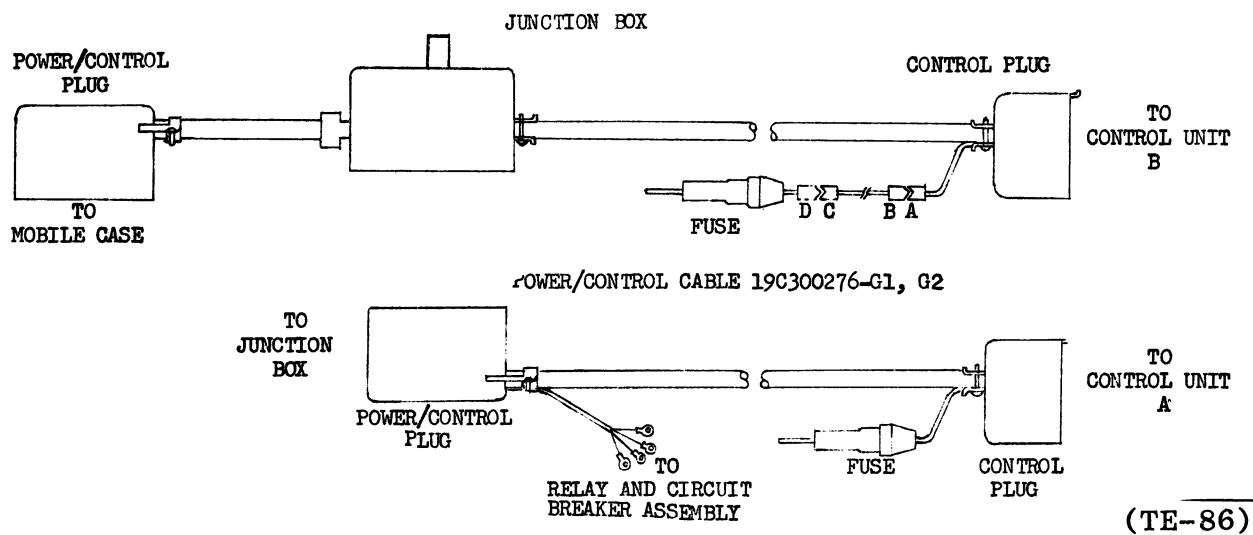


Figure 1 Cable Diagram - Rear Seat
Extension Cable, PL-19C300276-G3

4. Route the Rear Seat Extension Cable to the Extension B Control Unit location. When possible the cable should be routed under the floor mats along the driveshaft tunnel. The Control Plug is designed with removable pins so that the plug can be removed from the cable, if necessary, to allow routing of the cable through tight spaces. To disconnect the plug, loosen the cable clamp and hardware that holds the cover in place and slide the cover out of the way. Slide the insulation back on each lead, grasp the taper-tab terminal with long nose pliers and pull the terminal from the connector. When the cable is in place, re-connect the taper-tab terminals (refer to the color code chart on the next page) and re-assemble the cover.
5. The cable plugs should be connected as shown in Fig. 1.
6. The Rear Seat Extension Cable Fuse may be connected at the Relay and Circuit Breaker Assembly with the fuse lead from the standard cable or it may be connected to a 12 volt terminal in the rear seat area. (In-line connectors A, B, C and D are provided to shorten the cable when desired). If the driver is to control the power the fuse lead may be disconnected at A-B leaving the connector cover to protect the lead from accidental shorting.
7. The Control Units are normally connected for negative ground operation. For positive ground the following changes should be made:
 - a) Remove the strap between terminals 15 and 16 of J701 in both Control Units.

- b) Interchange the red and blue wires at terminals 16 and 20 of the control plug (P701) to each control unit.

COLOR CODE CHART	
WIRE COLOR	CONTROL PLUG PIN NUMBER
RED	1
ORANGE	2
BLUE	3
WHITE-BLACK	4
RED-BLACK	5
GREEN-BLACK	6
ORANGE-BLACK	7
BLUE-BLACK	8
BLACK	9
WHITE	10
PURPLE-WHITE	11
RED-WHITE	12
BLUE (jumper)	13 to 20
GREEN (2 terminals)	14 and 15
RED (jumper)	16 to 18
GREEN-WHITE	17
ORANGE-WHITE	19
BLUE-WHITE	21
GREEN-RED	22
ORANGE-RED	23
BLUE-RED	24
ORANGE-GREEN	25
BLUE-GREEN	26
FUSE LEAD (2 terminals)	28 and 21
BLUE-ORANGE	30

NOTE

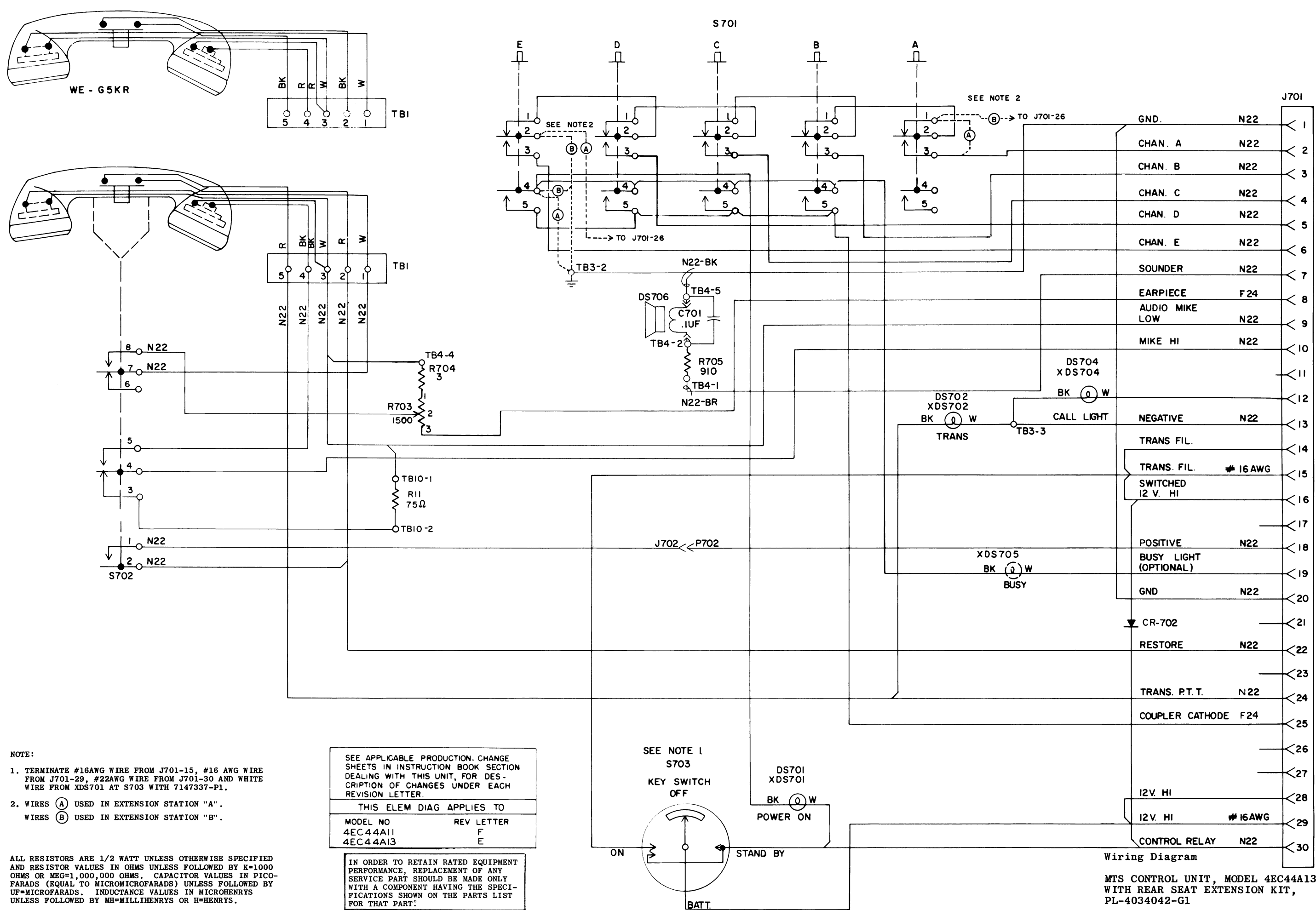
Other wiring changes that are required in the MTS equipment for positive ground operation are noted on the Interconnection Diagram (D-5499653) in Maintenance Manual LBI-8193.

OPERATION

The basic operation of the MTS equipment will not be changed by the addition of the Rear Seat Extension; however, it should be noted that the Rear Seat Extension (Control Unit - Extension B) has channel selection priority. Do not operate channel selector buttons on the Extension B unit while the Extension A unit is in use.

COMMUNICATION PRODUCTS DEPARTMENT
GENERAL ELECTRIC COMPANY
LYNCHBURG, VIRGINIA

Printed in U.S.A.



PARTS LIST

CONTROL UNIT
MODEL 4EC44A13, REV. E
with
REAR SEAT EXTENSION KIT
PL-4034042-G1

SYMBOL	G-E PART NO.	DESCRIPTION
C701*	7161189-P2	----- CAPACITORS ----- Fixed ceramic disc: 0.1 pf +80% -30%, 50 VDCW; sim to Sprague 36C172. (Added by REV. C).
CR702*	5490415-P2	----- RECTIFIERS ----- Silicon. (Added by REV. B).
DS701		----- INDICATING DEVICES ----- Incandescent: Min bay. base, 18 v, 0.15 amps. G-E Type 1445.
DS702		Incandescent: Min bay. base, 14.5 v, 0.12 amps. G-E Type 53.
DS704		Incandescent: Min bay. base, 14.5 v, 0.12 amps. G-E Type 53.
DS706*	5495088-P7	Earphone: 500 ohms imp; sim to Telex 60136. (Added by REV. C).
	5495088-P28	(Requires the following plug). Plug, miniature: Straight, (without cord); sim to Telex 18332.
J701	5496819-P2	----- JACKS AND RECEPTACLES ----- Connector: Phenolic, 30 contacts; sim to HB Jones 242-30-01-031.
J702*	7147199-P2	Connector: 1 female contact; sim to Winchester Elecs. 21804. (Added by REV. D).
P702*	7147199-P1	Connector: 1 male contact; sim to Winchester Elecs. 21803. (Added by REV. D).
R701*	3R77-P240K	----- RESISTORS ----- Fixed composition: 24 ohms ±10%, 1/2 w. (Deleted by REV. C).
R702*	5491537-P3	Potentiometer, carbon film: 250 ohms ±20%, 0.3 w, linear taper; sim to CTS 70. (Deleted by REV. C).
R703	5491537-P4	Potentiometer, carbon film: 1500 ohms ±20%, 0.15 w, 10% taper; sim to CTS 70.
R704*	3R18-P68	Wirewound: 3 ohms ±5%, 1/2 w; sim to IRC BW. (Added by REV. B).
R705*	3R77-P911J	Fixed composition: 910 ohms ±5%, 1/2 w. (Added by REV. B).
S701	5492650-P1	SWITCHES Push button: 1 form C and 1 form A contacts on each button, non shorting; sim to Oak 212-510-80.
S703	19B200150-P3	Rotary: On-off-on, 30 amps at 12 VDC, (with 10 ignition lock keys sets); sim to J Pollak LS-60GE.
XDS701	PL-4038185-G1	----- SOCKETS ----- Lamp Holder Asm: Min. bay. base, (with shield); sim to Drake N517.
XDS702	7144663-P11	Light, Indicator: Mtg brkt, (used with T3-1/4 min. bay. base lamp); sim to Dialight 2-15.
XDS704	7144663-P11	Light, Indicator: Mtg brkt, (used with T3-1/4 min. bay. base lamp); sim to Dialight 2-15.
XDS705*	7144663-P11	Light, Indicator: Mtg brkt, (used with T3-1/4 min. bay. base lamp); sim to Dialight 2-15. (Deleted by Rev.).
	4038824-P1	----- MISCELLANEOUS ----- Handset: Western Electric G5KR-3. (Supplied by W. E. for use in Model 4EC44A13 only.)

SYMBOL	G-E PART NO	DESCRIPTION
R11	3R77-P750J	REAR SEAT EXTENSION MODIFICATION KIT PL-4034032-G1 ----- RESISTORS ----- Fixed composition: 75 ohms ±5%, 1/2 w.
S702	PL-4038834-G1 19B200147-P2 7147199-P2	----- SWITCHES ----- Switch Assembly: consists of Switch: 1-form-B, 2-form-C contacts, 25 VDC at 2 amps. Connector: 1-female contact; sim to Winchester Elecs. 21804.

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES.