

INSTALLATION INSTRUCTIONS

I. GENERAL

All standard accepted wiring practices apply to the IC300 Intercom. Shields should be terminated only at the end going to the intercom unit. Do not connect the shield going to the menu board with the metal on the menu board or a ground loop can be formed, thereby causing excessive hum on the incoming audio. When using the music input, do not connect the shield from the music source to the IC300 intercom unit.

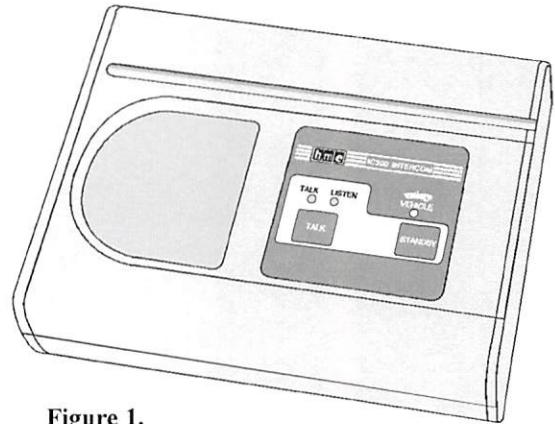


Figure 1. IC300 Intercom top view

II. INSTALLATION PROCEDURE

Refer to Figures 1, 2 and 3 for controls, adjustments and DIP switches, and Figures 4 and 5 for wiring connections.

1. Remove two screws retaining the access cover for DIP switches and volume controls.

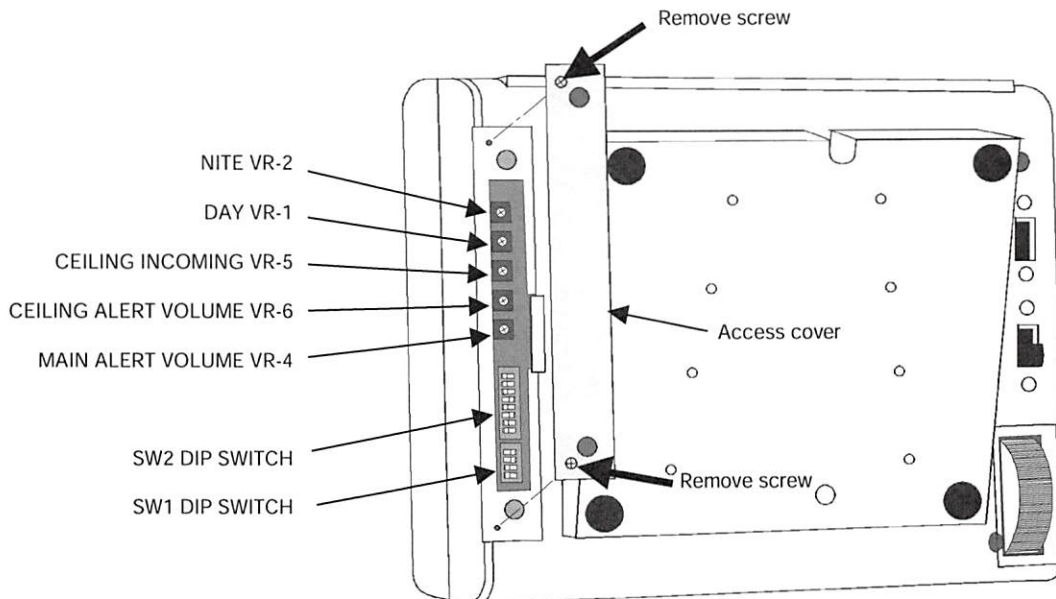
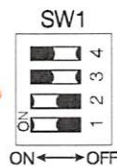


Figure 2. IC300 Intercom bottom view

2. Set the SW1 DIP switches for split or combo applications at the menu board.

Split

For separate Outside Microphone
 #1 & #2 should be ON
 #3 & #4 should be OFF



Combo

For Speaker or Horn only
 #1 & #2 should be OFF
 #3 & #4 should be ON



IC 300

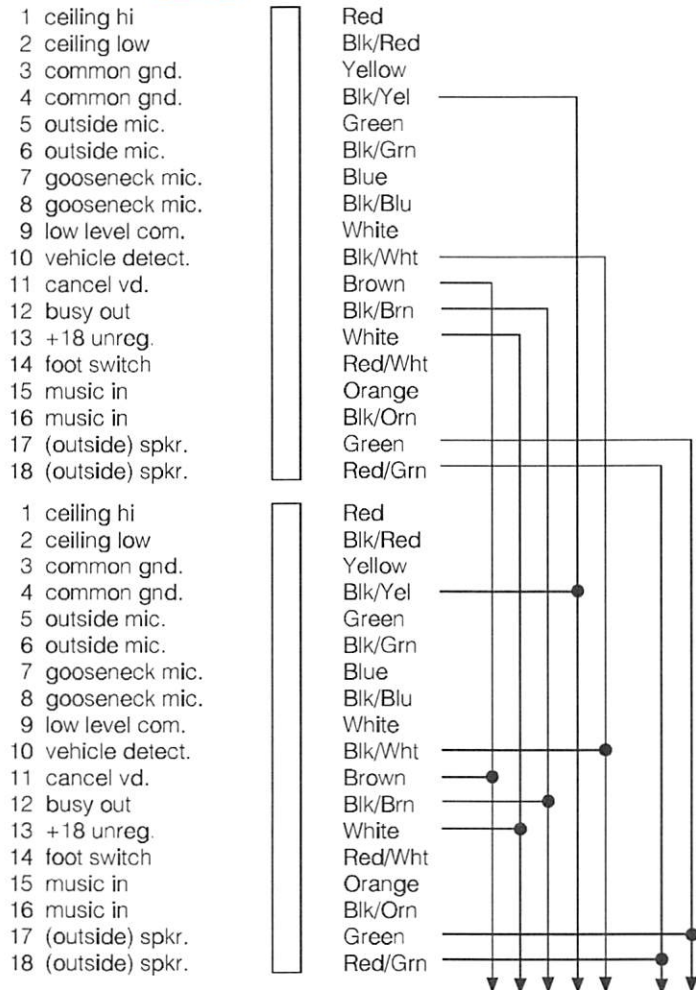
Pin-Outs and Cable Color Codes

J1 = 18-pin Molex connector (Installed with wires pointing up)

Pin 1 - Red	Ceiling speaker - Hot	NOTE: Pins 1 and 2 are tied together.
Pin 2 - Black/Red		
Pin 3 - Yellow	Ceiling speaker - Ground	
Pin 4 - Black/Yellow	Outside microphone shield (Low level input ground)	
Pin 5 - Green	Outside microphone audio in from menu board	
Pin 6 - Black/Green	Outside microphone audio in from menu board	
Pin 7 - Blue	Optional gooseneck microphone audio in	
Pin 8 - Black/Blue	Optional gooseneck microphone audio in	
Pin 9 - White	Low level common ground	
Pin 10 - Black/White	Vehicle detect input - Requires pulse or presence closure to +18VDC (available on pin 13) to activate	
Pin 11 - Brown	Cancel vehicle detect - Requires a ground input to operate	
Pin 12 - Black/Brown	Busy output buss - Applies to daisy chain	
Pin 13 - White	+18VDC unregulated out - Used for vehicle detection trigger and/or may power sonar vehicle detector	
Pin 14 - Red/White	Foot switch key buss - Switches to pin 3 or 4	
Pin 15 - Orange	Music input	
Pin 16 - Black/Orange	Music input	
Pin 17 - Green	Outside speaker or Combo speaker/microphone	
Pin 18 - Red/Green	Outside speaker or Combo speaker/microphone	

Optional -
Not used if
you have a
Combo
speaker/mic
From External
Detectors

Multiple IC300 Intercom Unit Wiring Diagram



IC 300

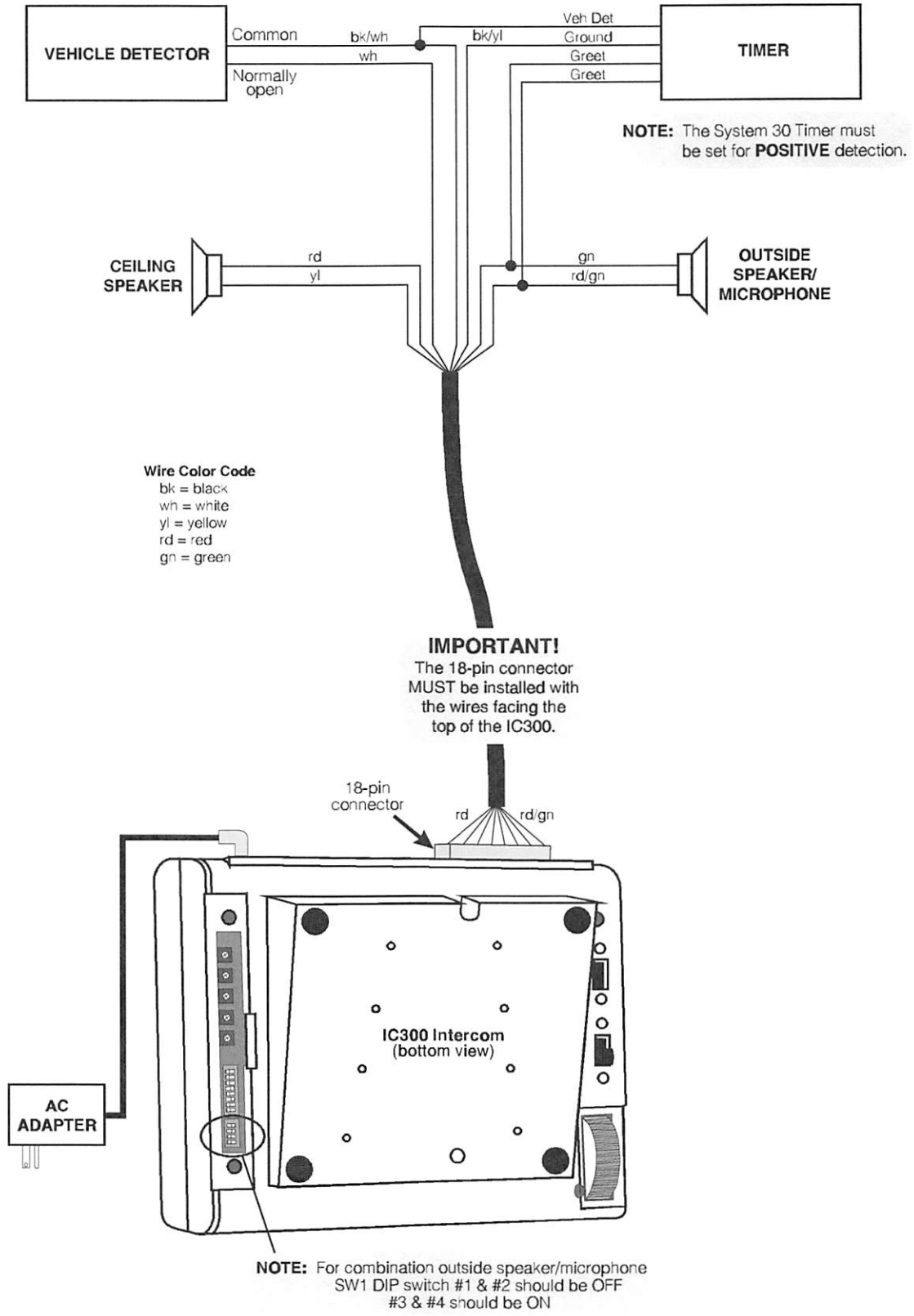


Figure 4.

Wiring Diagram for Stand-Alone IC300 Intercom

IC 100

3.3.4 OPTIONAL VDB100/101 VEHICLE DETECTOR BOARD INSTALLATION

If you are installing an HME VDB100/101 into the IC100/IC200, refer to Figure 8 and follow the instructions below.

- Using the tip of a small, standard (slotted) screwdriver, remove the plastic screw cover from each of the four corners on the bottom of the IC100/IC200 base station. Using a Phillips (cross-point) screwdriver, remove the screw from under each of the screw covers.
- VERY CAREFULLY, lift the cover off the base station.

CAUTION: Do not pull the cables inside the base station loose when lifting the cover.

- Carefully position the three holes in the VDB100/101 circuit board over the three plastic standoffs on the large circuit board inside the IC100/IC200 base station. Press down on the VDB100/101 until the tips of the three standoffs snap through the holes.
- Connect the two loose wires from the large circuit board, labeled "VDB TB1," to the TB1 connector on the VDB100/101.
- Connect the cable attached to the P1 connector on the VDB100/101 to the J6 connector on the large circuit board, near the end of the VDB100/101.
- Replace the cover on the IC100/IC200 base station by carefully fitting it over the end panels, so the panels fit into the grooves inside the ends of the cover. Slide the cover down until it fits evenly against the bottom of the unit. Using a Phillips (cross-point) screwdriver, lightly tighten the screws at the four corners of the cover. Replace the plastic screw covers over each of the four screws.

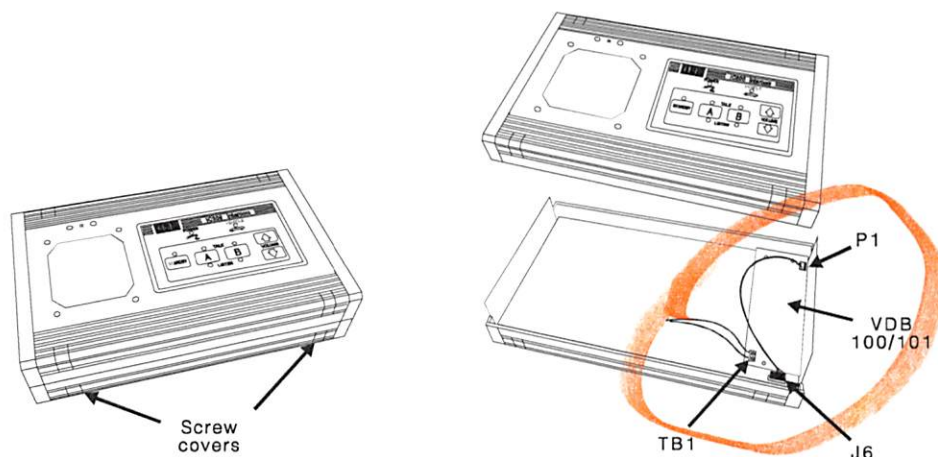


Figure 8. Installing the optional VDB100/101

IC 100

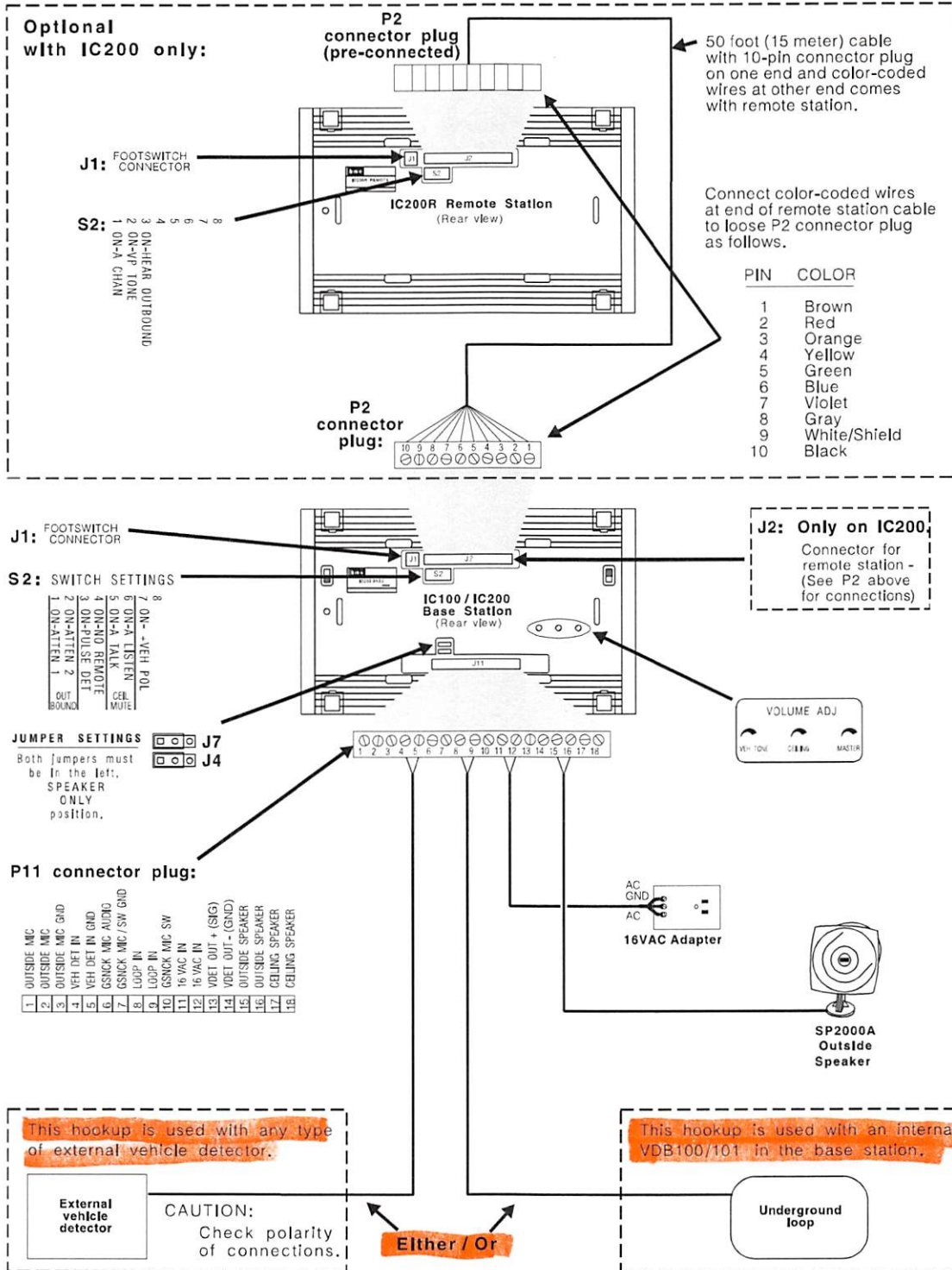


Figure 12. Stand-alone IC100 / IC200 Intercom and optional IC200R Remote Station wiring diagram