New Installation Review

Determine base station mounting location inside store and measure out the correct cable lengths. *Always cut longer than needed*

Pull two (2) cables through the supplied/dedicated conduit, (at each order point)

Mark one of the cables on both ends for easy identification

Be sure cables are cut to a sufficient, long enough to go through any j-boxes, walls, in the crawl space, etc.

Install the microphone and speaker into post

Completely surround both the mic and speaker with the supplied acoustic foam, so they do not touch any part of the post itself

Use one HME cable to splice in the speaker “and” the loop:

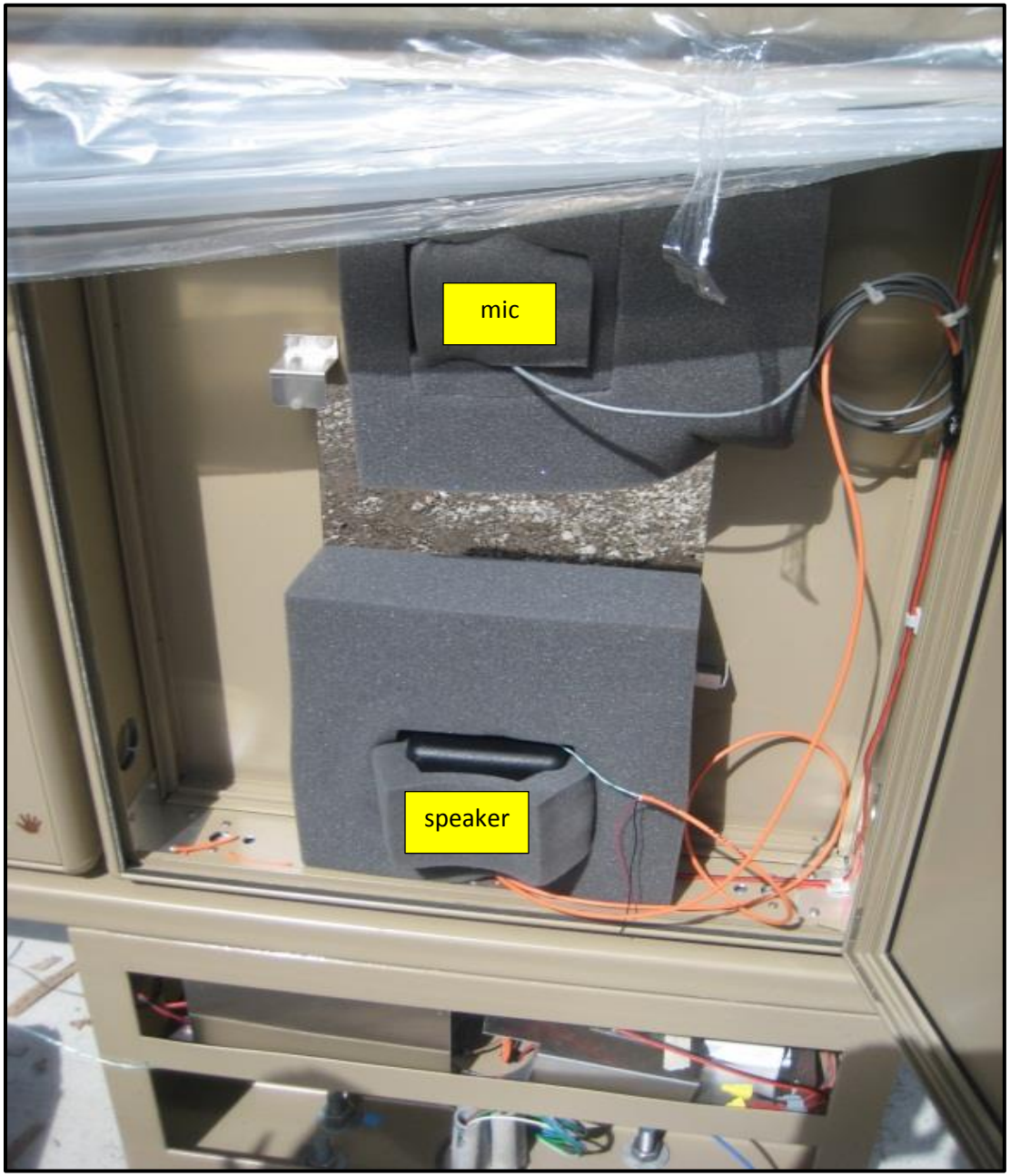
Green / white pair to speaker

Red/black pair to loop (loop lead cable wiring must also be twisted 5-6 turns per ft.)

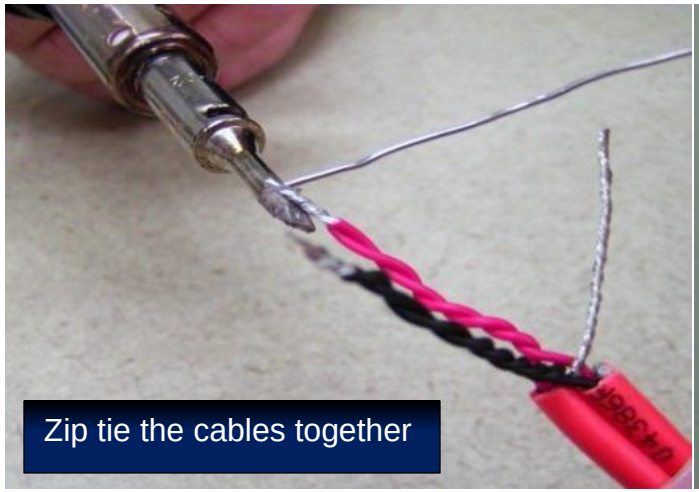
Solder all connections, crimp-cap, tape, and zip tie as shown

Use the other HME cable to splice in the microphone. Splice the red/blk pair to mic

You can splice the shield from the pigtail to the cable, but do not ground the shield outside. Shield will connect to ground terminal in the base station only



If a bracket is necessary, use additional foam to isolate the mic from the bracket



Zip tie the cables together

Quality solder job

Crimp capped after soldering

Tape over the entire splice and over crimp caps as well

Mount base station and install VDB in base station

Connect Loop/speaker cable to base station:

Loop (red/blk) to VDB-TB1 terminal block and tighten with small slotted screwdriver

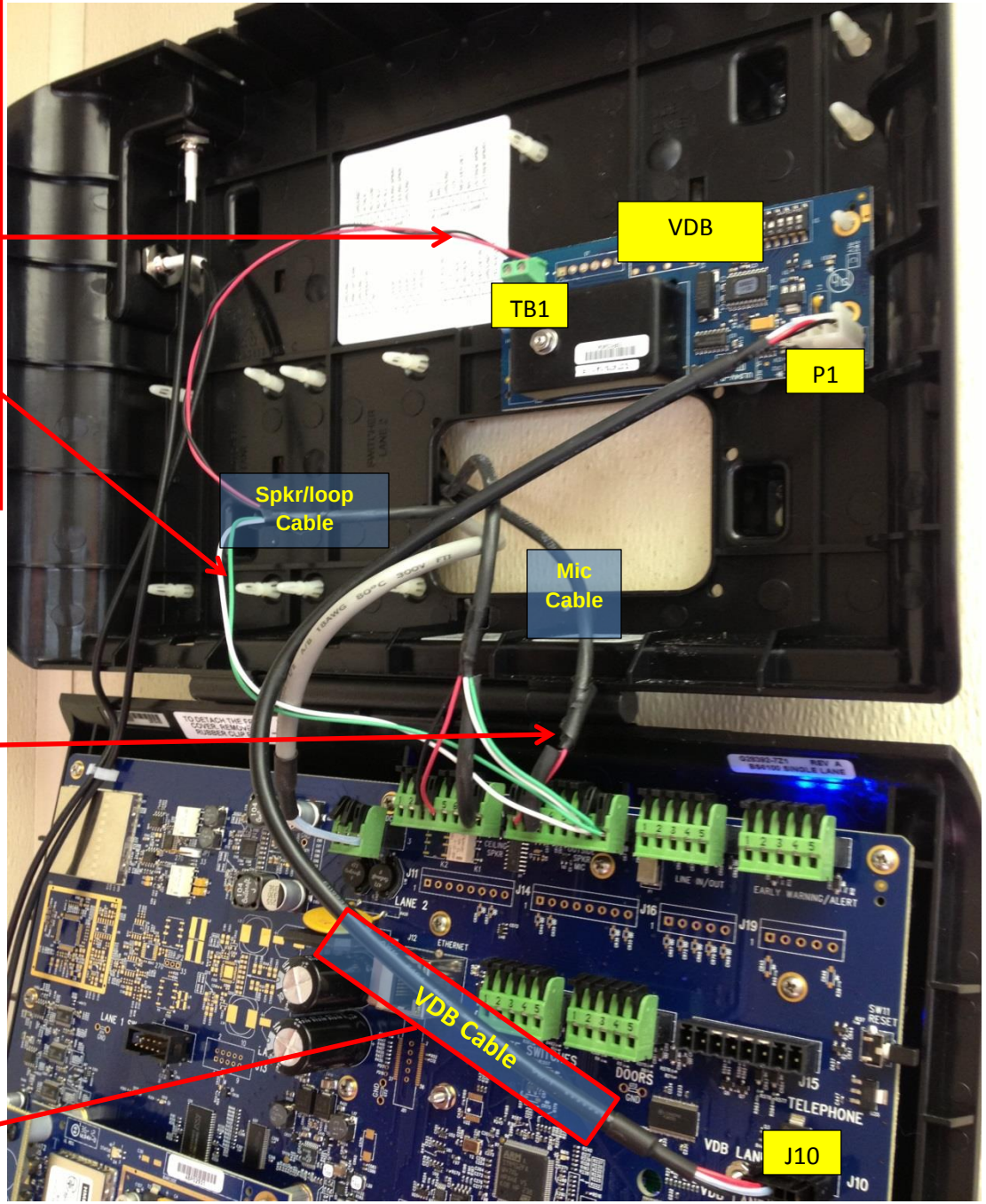
Speaker (grn/wht) to Phoenix connector J6-7&8

Connect mic cable to base station:

Red/blk pair from mic to Phoenix connector J6-1&2

Shield to J6-3. (Shield wire must be covered with insulation as shown)

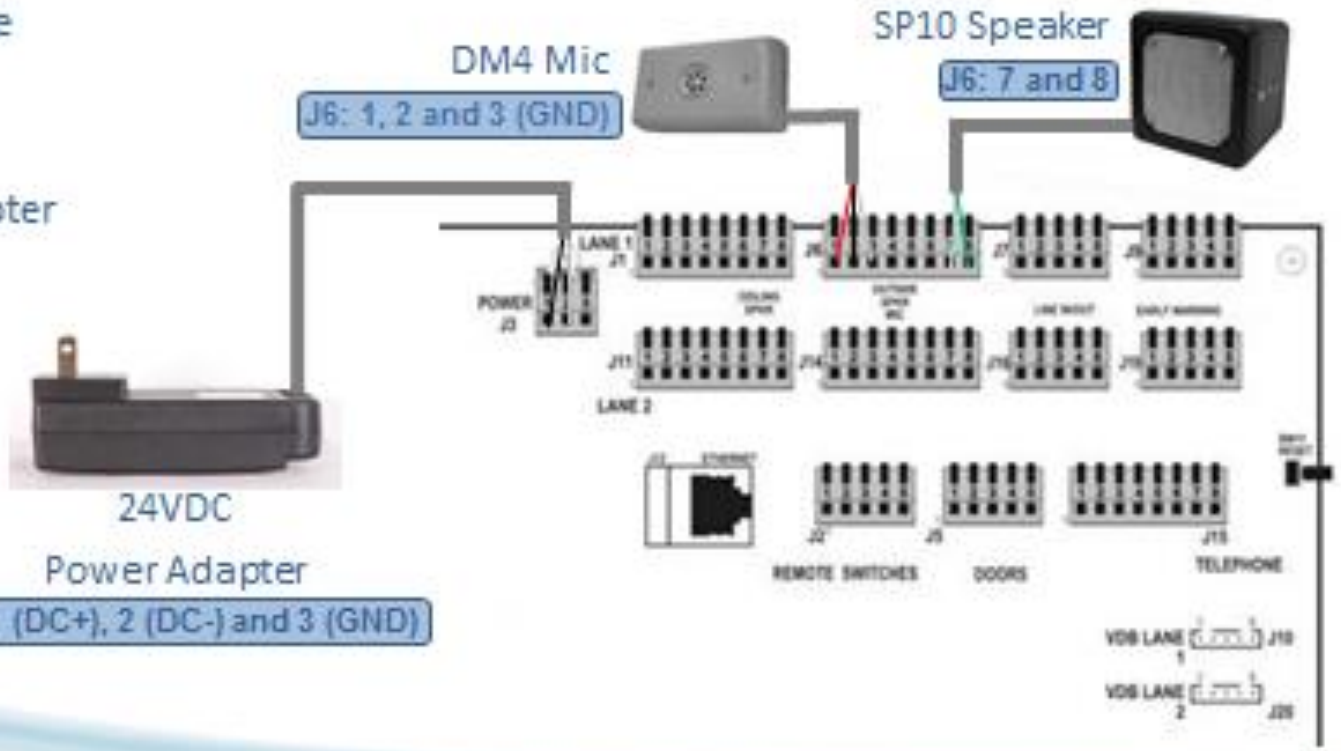
Plug in VDB cable as shown: VDB P1 to audio bd. J10

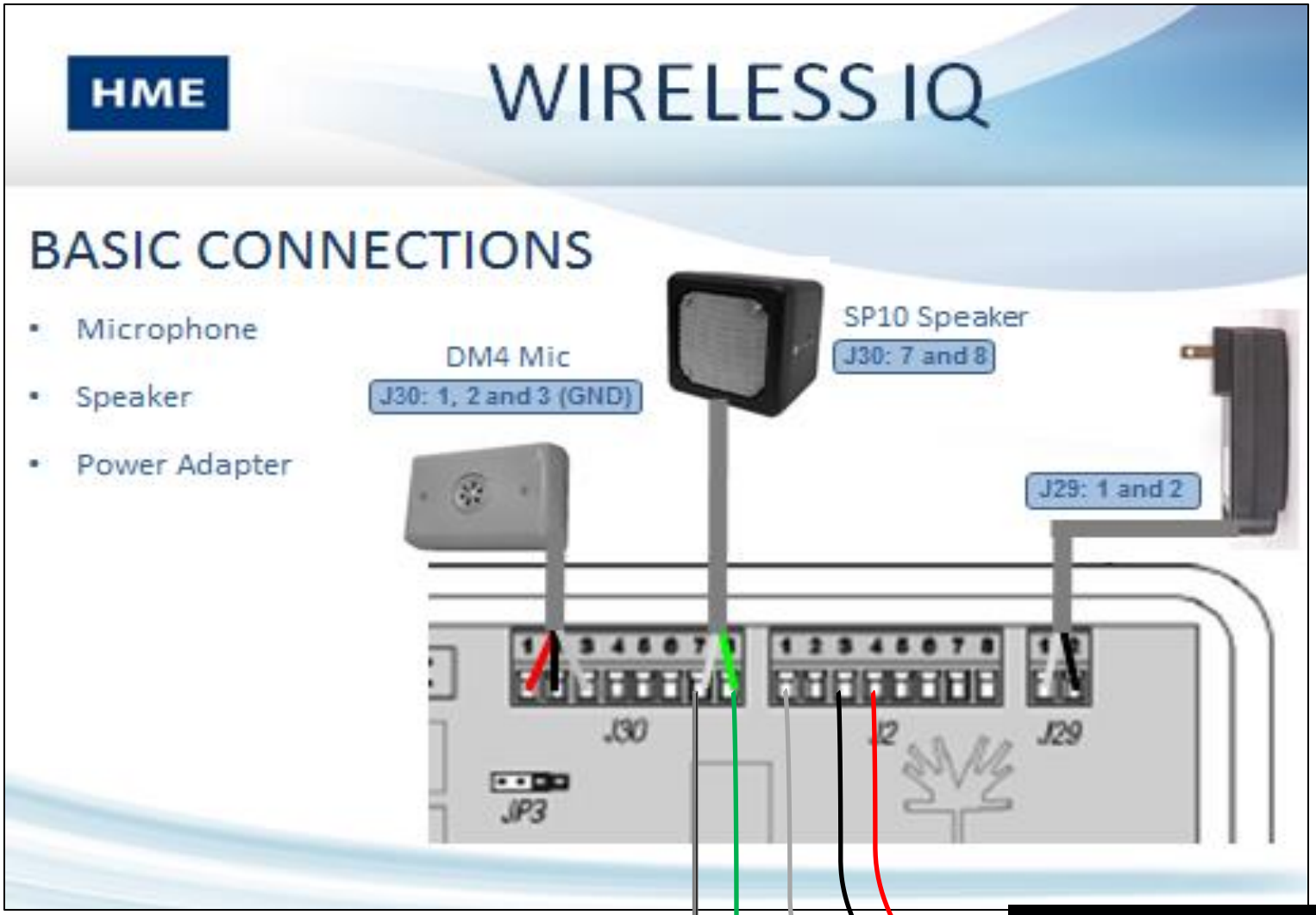


HME ion IQ™ TECHNICAL TRAINING

BASIC CONNECTIONS

- Microphone
- Speaker
- Power Adapter





Connect the iON to the Zoom TSP

WIQ to Zoom TSP

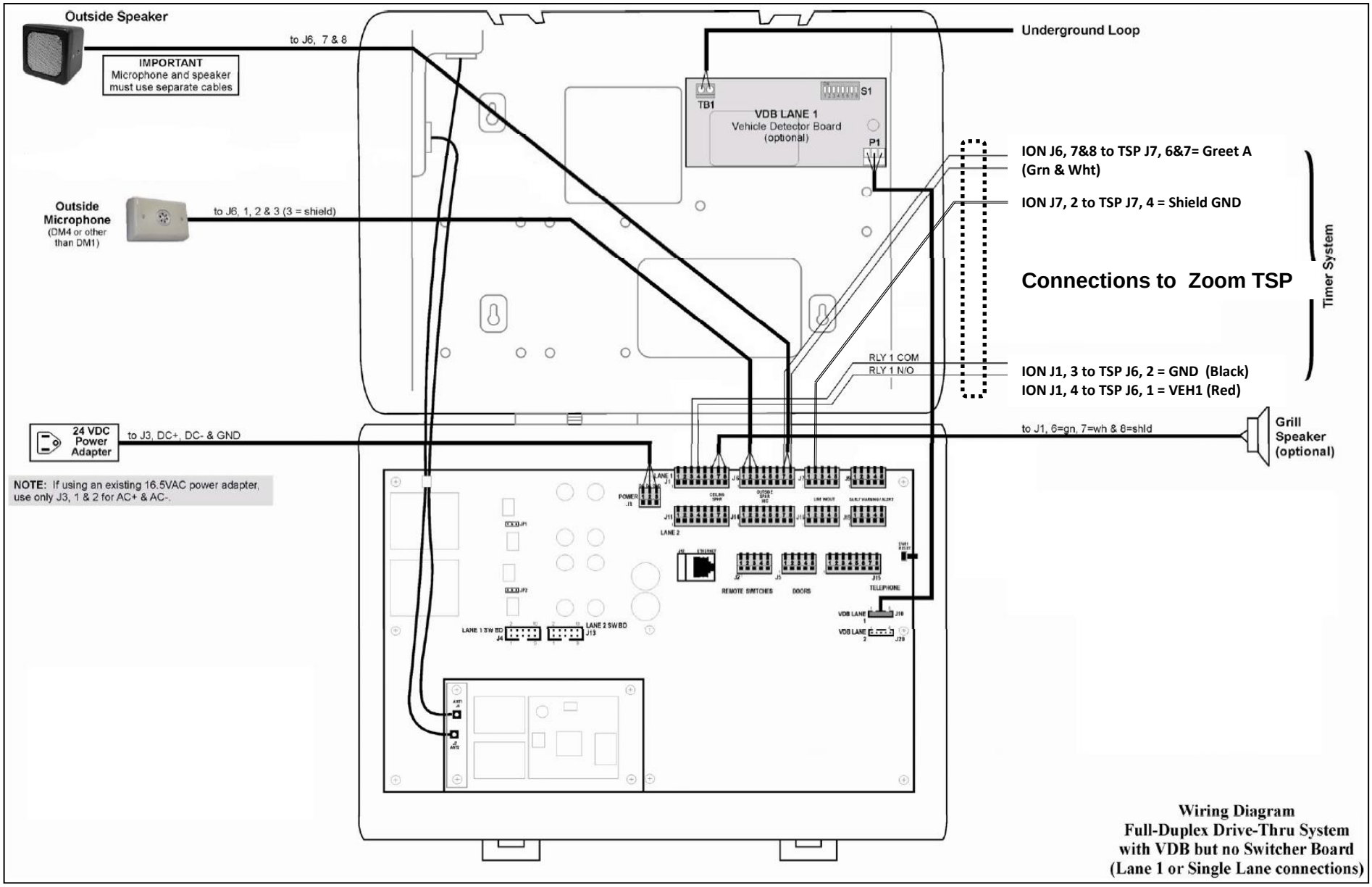
- Menu Detection:

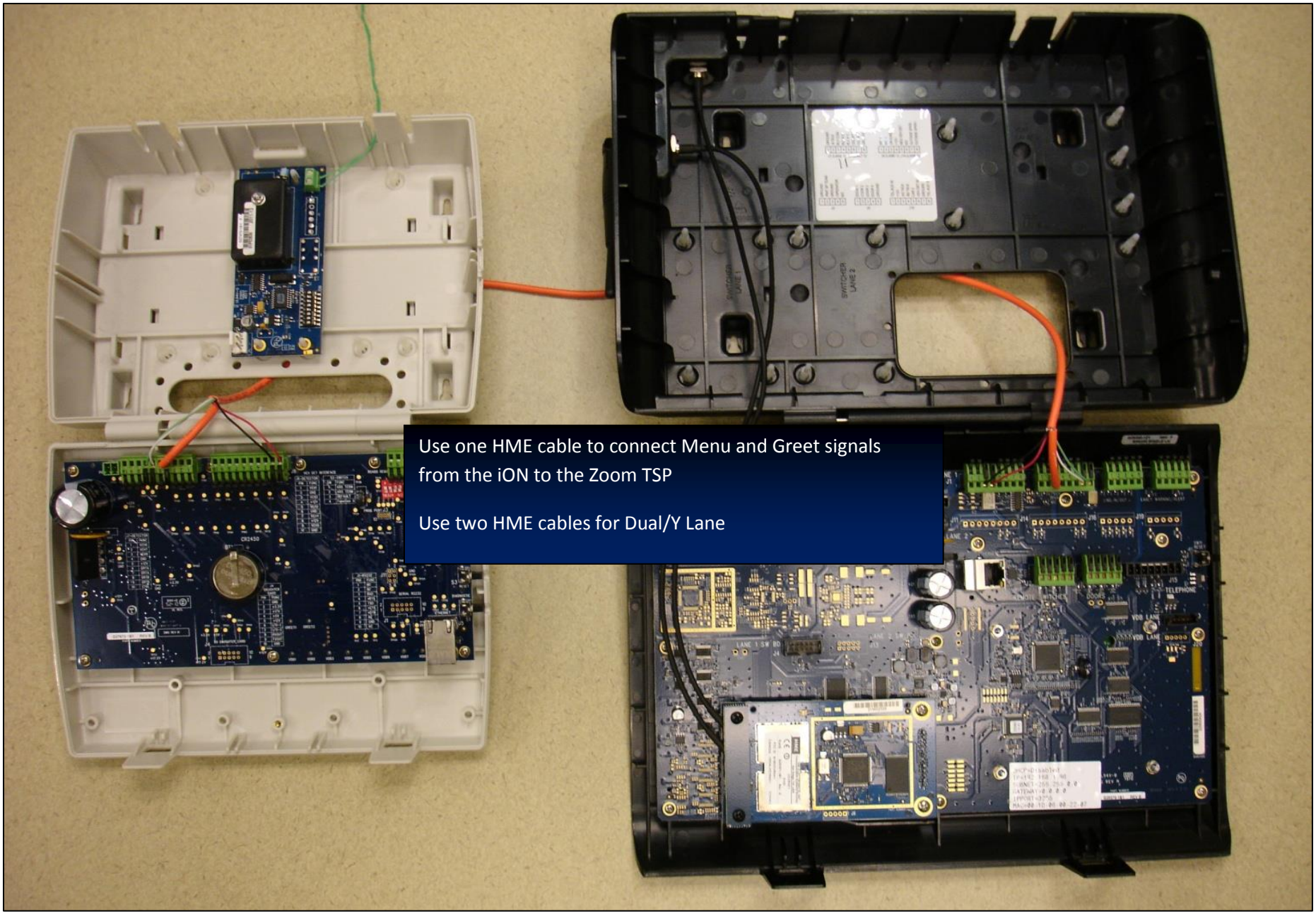
  WIQ J2 (Blk3 – Red4) to TSP J6 (Red 1 – Blk 2)

- Shield, WIQ J2-1or 8 to J6 – 2,6, or 10

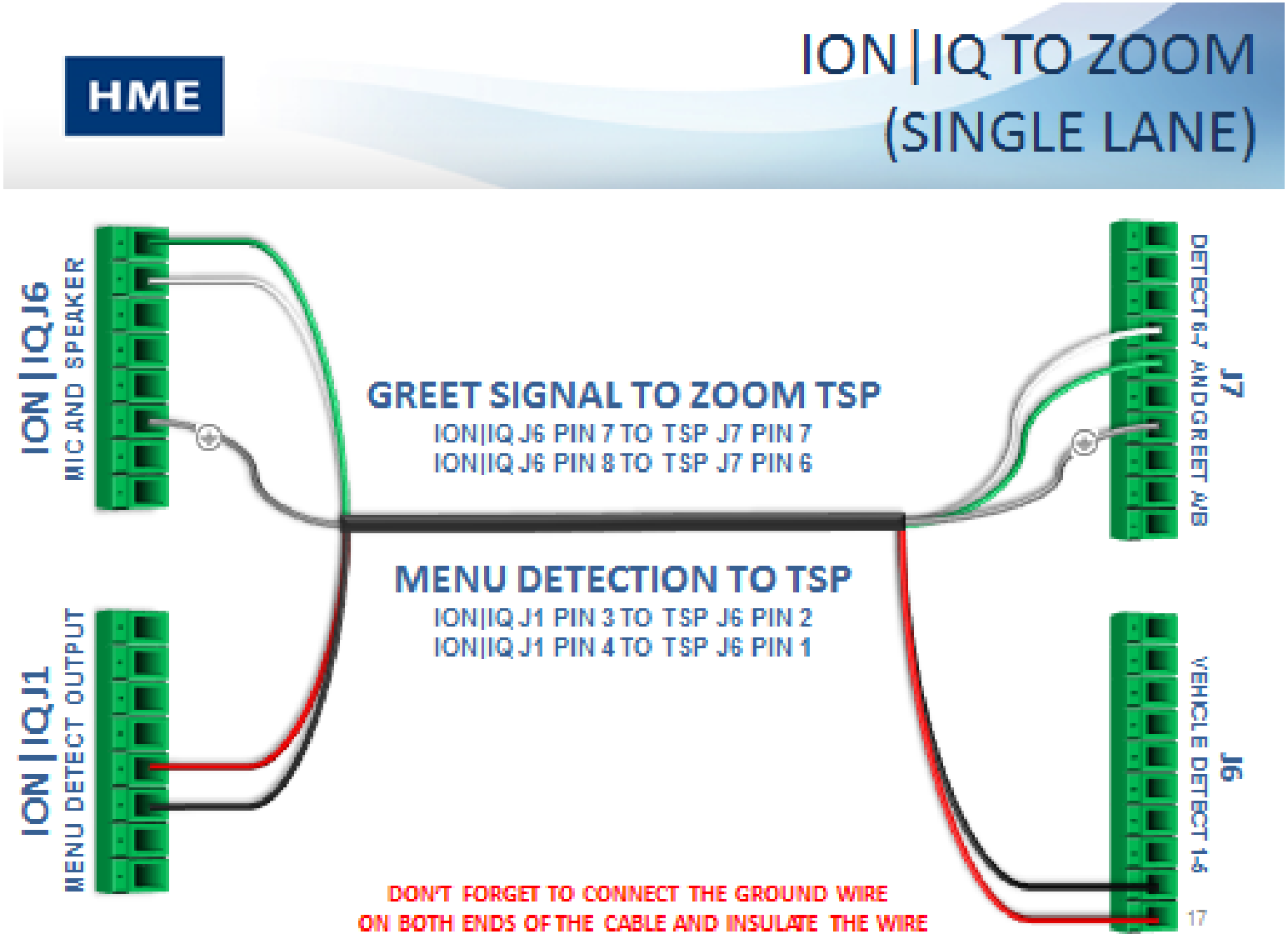
- Greet Signal:

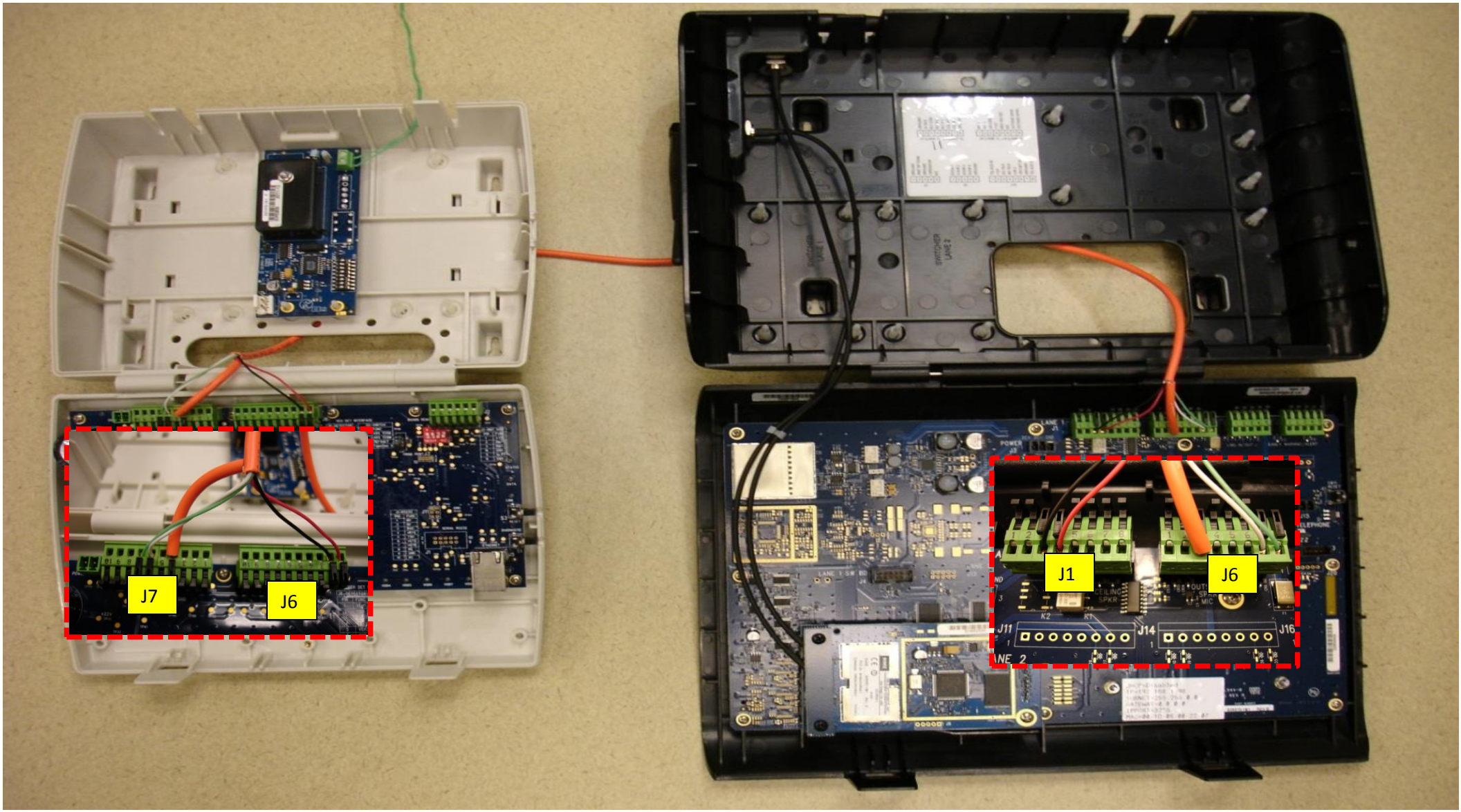
  WIQ J30-7&8 to TSP J7-6&7


Outside Speaker
to J6, 7 & 8
IMPORTANT
Microphone and speaker must use separate cables
Underground Loop
TB1
S1
VDB LANE 1
Vehicle Detector Board
(optional)
P1
Outside Microphone
(DM4 or other than DM1)
to J6, 1, 2 & 3 (3 = shield)
ION J6, 7&8 to TSP J7, 6&7= Greet A (Grn & Wht)
ION J7, 2 to TSP J7, 4 = Shield GND
Connections to Zoom TSP
Timer System
RLY 1 COM
RLY 1 N/O
ION J1, 3 to TSP J6, 2 = GND (Black)
ION J1, 4 to TSP J6, 1 = VEH1 (Red)
24 VDC Power Adapter
to J3, DC+, DC- & GND
to J1, 6=gn, 7=wh & 8=shld
Grill Speaker (optional)
NOTE: If using an existing 16.5VAC power adapter, use only J3, 1 & 2 for AC+ & AC-.
LANE 1
LANE 2
REMOTE SWITCHES
DOORS
TELEPHONE
LANE 1 SW BD
LANE 2 SW BD
Wiring Diagram
Full-Duplex Drive-Thru System
with VDB but no Switcher Board
(Lane 1 or Single Lane connections)



ION – TSP Wiring


HME
ION | IQ TO ZOOM
(SINGLE LANE)
ION | IQ J6
MIC AND SPEAKER
ION | IQ J1
MENU DETECT OUTPUT
GREET SIGNAL TO ZOOM TSP
ION|IQ J6 PIN 7 TO TSP J7 PIN 7
ION|IQ J6 PIN 8 TO TSP J7 PIN 6
MENU DETECTION TO TSP
ION|IQ J1 PIN 3 TO TSP J6 PIN 2
ION|IQ J1 PIN 4 TO TSP J6 PIN 1
J7
DETECT 6-7 AND GREET A/B
J6
VEHICLE DETECT 1-5
DON'T FORGET TO CONNECT THE GROUND WIRE
ON BOTH ENDS OF THE CABLE AND INSULATE THE WIRE
17



TSP

MENU J6-1&2
1 = VEH1 (red)
2 = GND (black)

GREET: J7-6&7
6 = GREET A (green or white)
7 = GREET A (green or white)
GND = Shield = J7-4

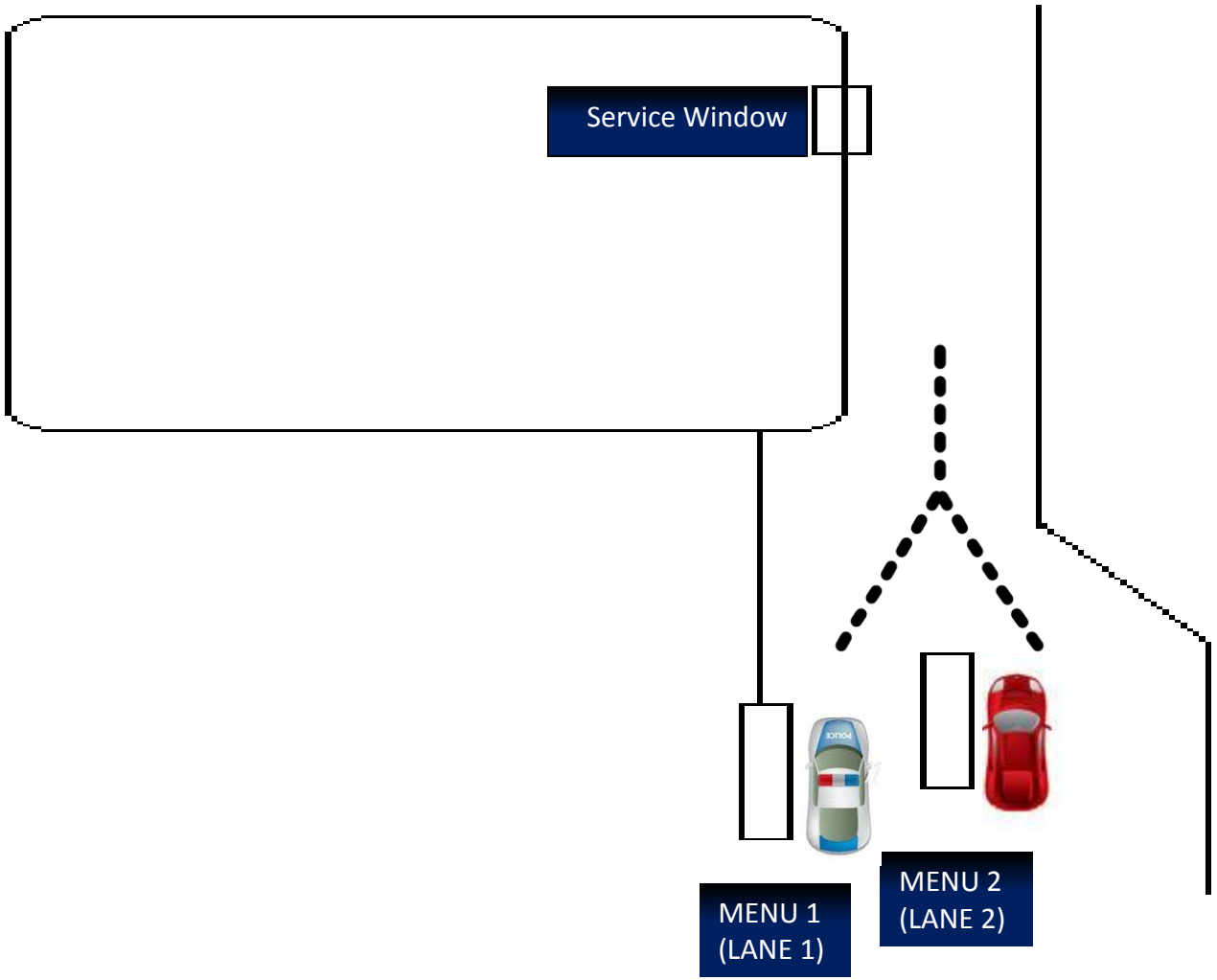
ION

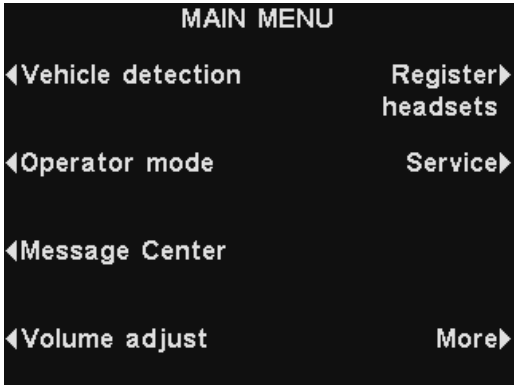
MENU: J1-3&4
3 = Relay 1 Common (black)
4 = Relay 1 N.O. (red)

GREET: J6-7&8
7 = SPEAKER=GREET A
8 = SPEAKER=GREET A
GND = Shield = J1-8 or J6-3

Y - LANE

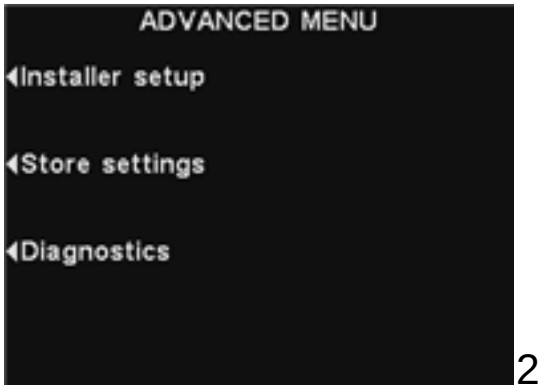
Side by Side Menu Boards funnel into a SINGLE LANE



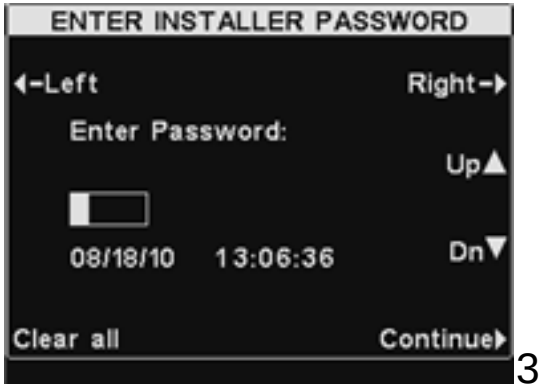


1

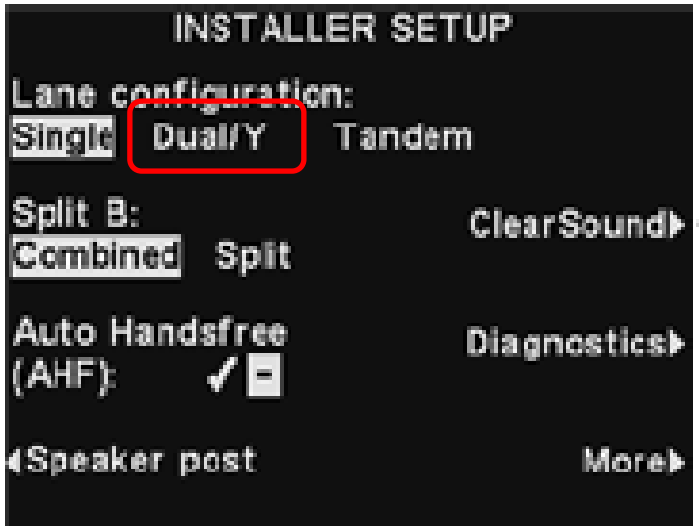
Select Dual/Y for Lane Configuration



2

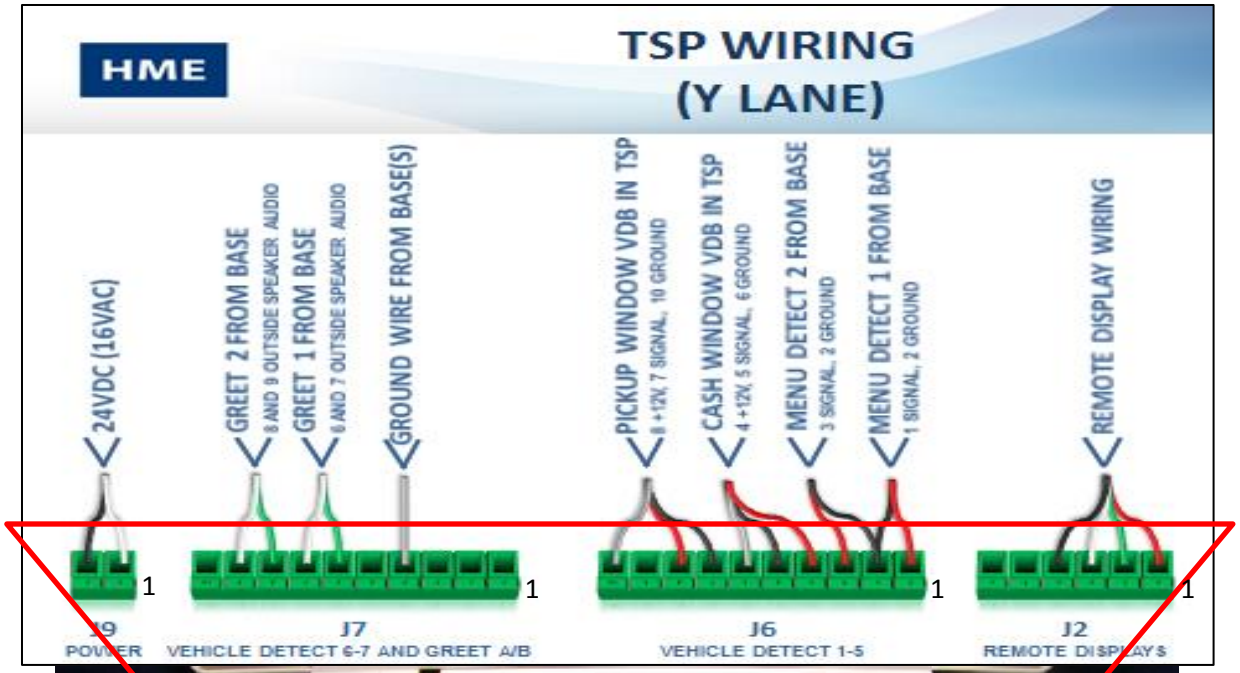


3

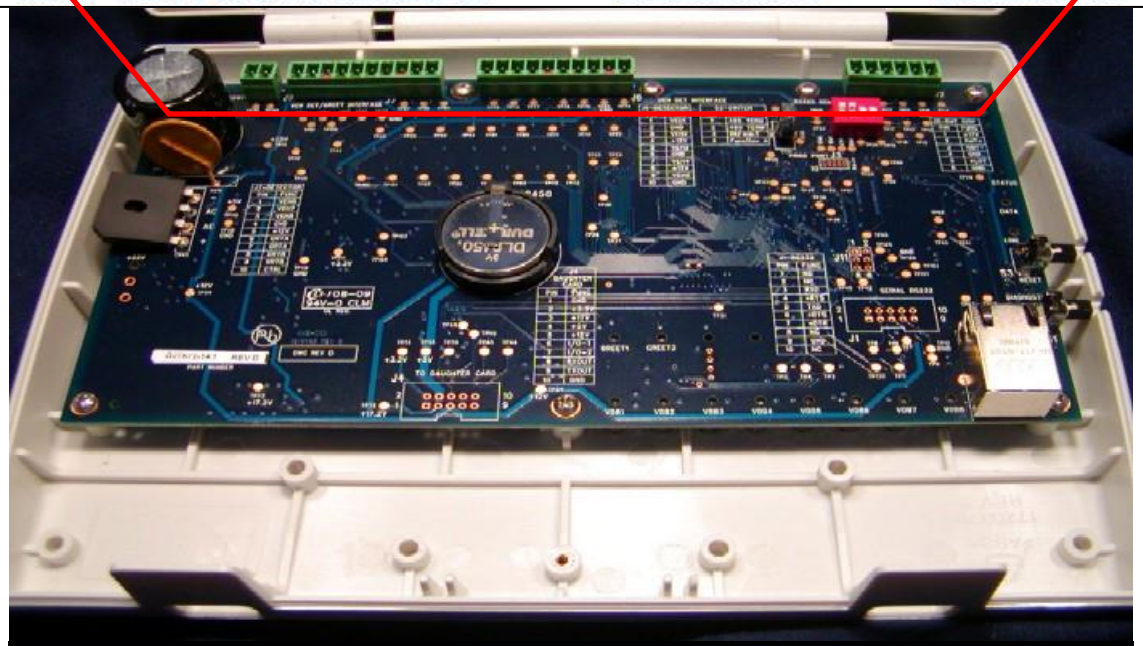


4

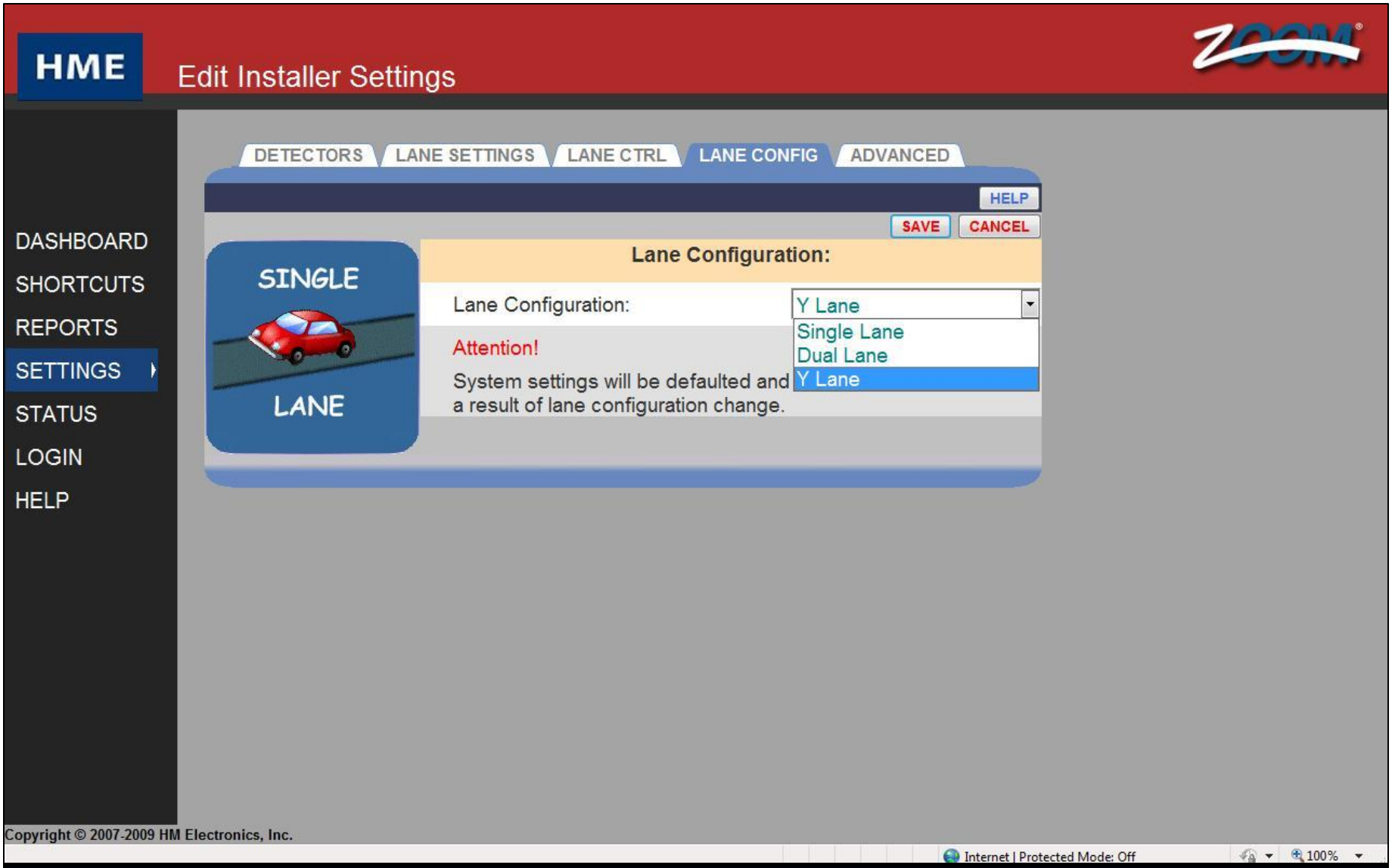
1124



NOTE: Pins are numbered from Right to Left !



If store does not have a Cashier window, connect the Pickup Window to V3 (pin 5)



Change Lane Configuration to Y Lane and press Save

DETECTORS
Y-Lane with Cashier Window

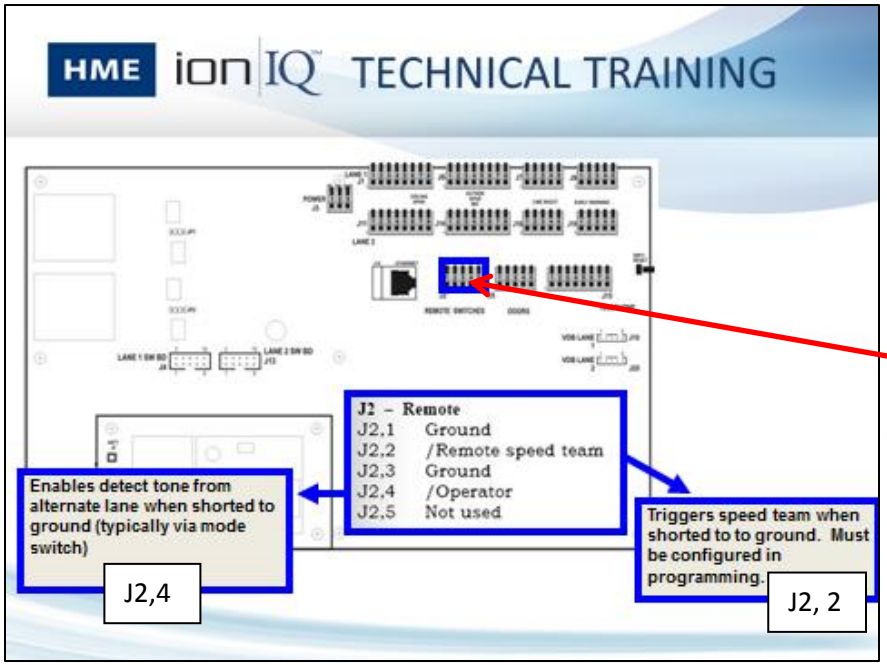
LANE CONFIG

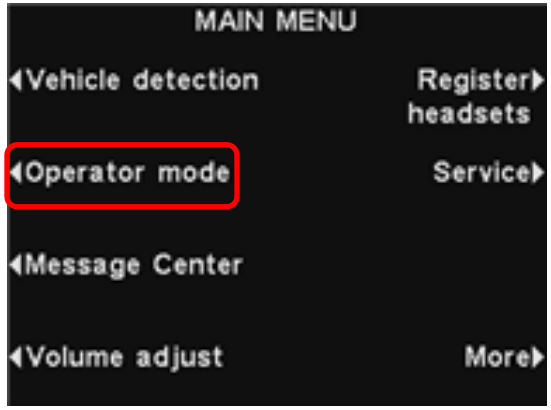
↓

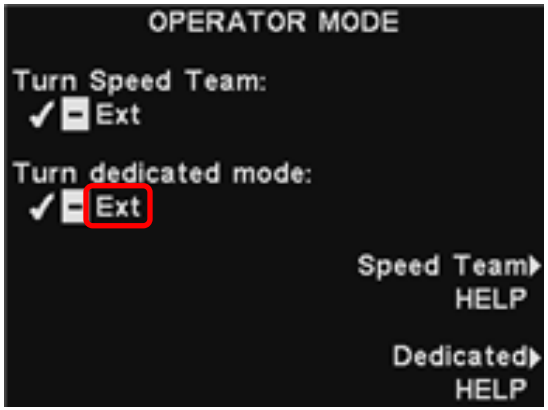
"Y Lane"

If store does not have a Cashier window, turn off detector Veh 4 and rename Veh 3 as Service. Verify Service Window is wired to Veh 3 in TSP

Mode Switch Installation for Dual/Y Lane







Wire the Mode (/Operator) Switch to J2-3&4

Set “dedicated mode” for Ext to use the Mode Switch

iON and Zoom Installation

HME

Loop Measurements

Menu Loop reading "at" the loop

- Verify the range setting on your meter:
The photo shows correct range for inductance in microhenries, (µH)

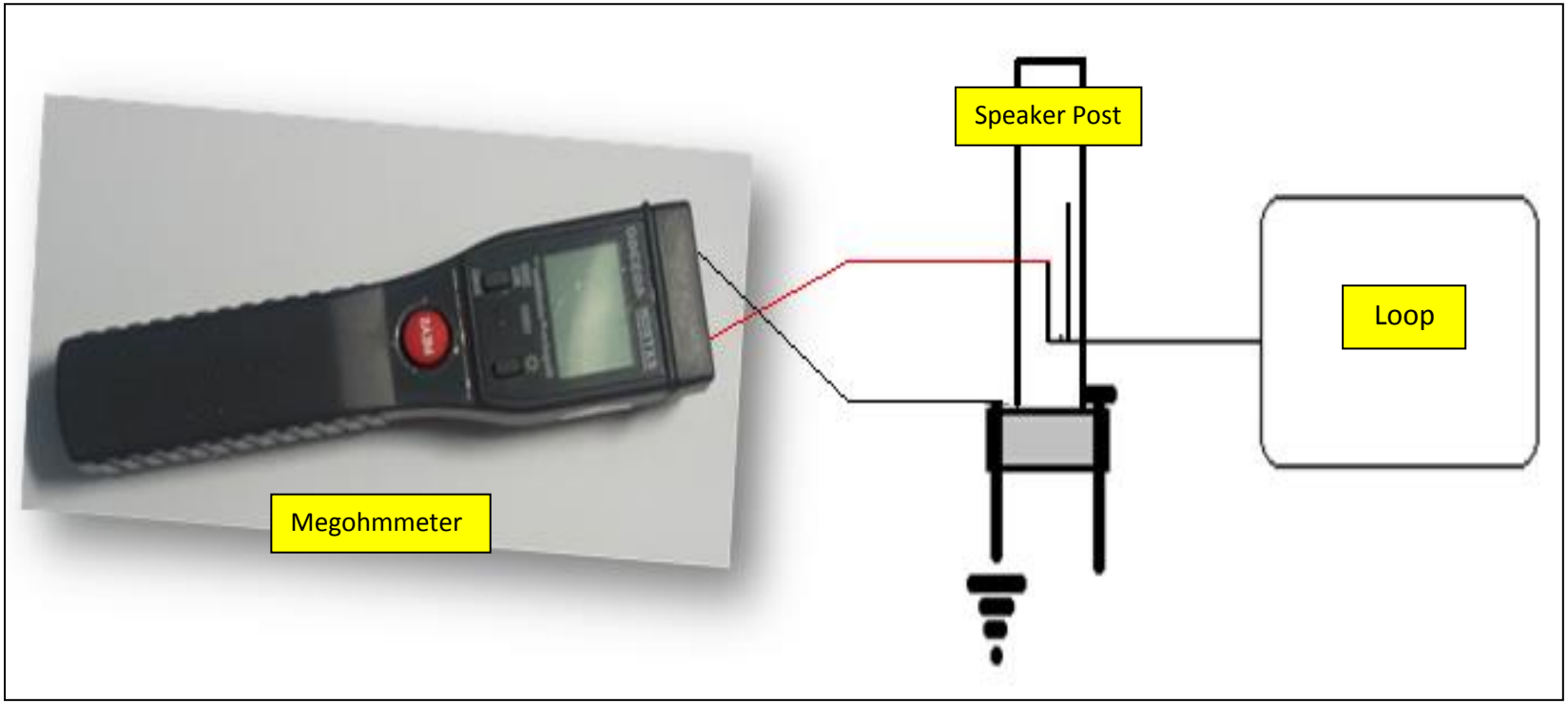
- Note the "twist" on the lead-in ends of the loop; critical for preventing false triggering

Menu loop inductance measurement taken before splicing to lead-in cable at speaker post

Line resistance at the loop should be approximately 1Ω

Service Window loop inductance measurement taken below the window from inside store

Resistance should be approximately 1Ω at the loop, slightly higher at lead-in cable end



Insulation resistance measurement with megohmmeter

This measurement is taken outside only!