

1. [Index](#)
2. [Headsets](#)
3. [Headset Modes](#)
4. [Chargers](#)
5. [Mics/Speakers](#)
6. [Mics \(DM5 & DM6\)](#)
7. [ION Lane 1 Wiring](#)
8. [ION Lane 2 Wiring](#)
9. [WIQ6000 Lane 1 Wiring](#)
10. [WIQ6000 Lane 2 Wiring](#)
11. [WIQ6000 Tandem Wiring](#)
12. [WIQ6000 Internal Switches](#)
13. [SYS400 DM1 Mic](#)
14. [SYS400 DM2 Mic](#)
15. [COM400 Frequency](#)
16. [Timer Wiring Guidelines](#)
17. [ION or EOS to SYS30 \(Single Lane Wiring\)](#)
18. [ION or EOS to Zoom TSP \(Single Lane Wiring\)](#)
19. [WIQ6000 to SYS30 Single Lane Wiring](#)
20. [WIQ6000 to Zoom TSP Single Lane Wiring](#)
21. [SYS30 Wiring – Single Lane, One Window](#)
22. [SYS30 Wiring – Single Lane, Two Windows](#)
23. [SYS30 Wiring – Dual Lane](#)
24. [ZOOM TSP – Single Lane, One Window](#)
25. [ZOOM TSP – Single Lane, Two Windows](#)
26. [ZOOM TSP – Dual Lane](#)
27. [ZOOM TSP – Y Lane](#)

HS6100 HEADSET

Battery lasts +/- 16 hours
Takes +/- 2 hours to
charge a battery
10-15% increased range
over COM6000/HS6000
Spectrum Friendly
Compatible
Updated Headset Modes

**HS12/COM6000
HEADSET**

Battery lasts +/- 24 hours
Takes +/- 2 hours to
charge a battery
NOT Spectrum Friendly
Compatible
Smart Chip in headset,
com and battery (will
shut off if one fails)

HS6000 HEADSET

Battery lasts +/- 24 hours
Takes +/- 2 hours to
charge a battery
NOT Spectrum Friendly
Compatible

Just before you power the headset on...

HS6100 HEADSET &
COM6100



- Registration** Hold Power Button for 10 Seconds
- Handsfree On** Hold B and Volume Up
- Handsfree Off** Hold B and Volume Down
- Auto Handsfree On** Hold A1 (or A2) and Volume Up
- B Handsfree On** Hold B and A2
- Language** Hold A1 and Volume Down
- Status** Hold A2 and Volume Down

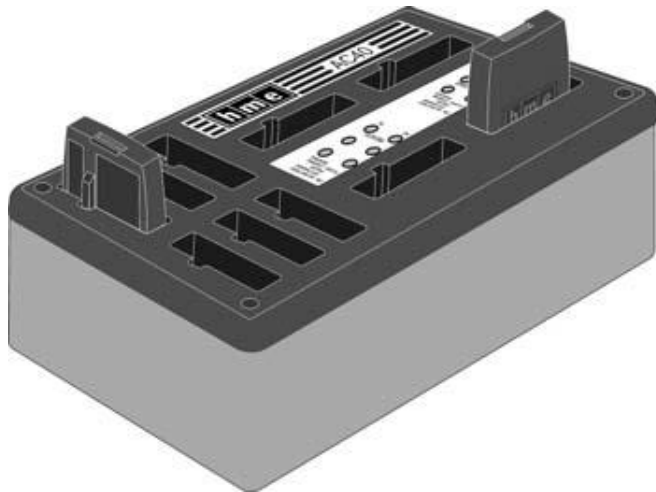
HS12/COM6000 &
HS6000 HEADSETS



- Registration** Hold B Button
- Handsfree On** Hold B and Volume Up
- Handsfree Off** Hold B and Volume Down
- Auto Handsfree On** Hold A1 (or A2) and Volume Up
- Language** Hold A1 and Volume Down
- Status** Hold A2 and Volume Down

AC50 CHARGER

**Uses +5VDC Power Adapter
For the HS6100 Headset
Battery Takes +/- 2 Hours to Charge
Battery Lasts +/- 16 Hours**

AC40 CHARGER

**Uses +24VDC/16.5VAC Power Adapter
For the COM6000 and HS6000 Headset
Battery Takes +/- 2 Hours to Charge
Battery Lasts +/- 24 Hours**

DM1 MICROPHONE



Type: Directional Electret
Input Voltage: 11-26VDC, 20mA max @ 12VDC
Dimensions: 39.37 x 36.83 x 135.89 mm
Operating Temperature: -40° C to +80° C
Systems: Optional Mic for Ion|IQ and Wireless IQ

DM4 MICROPHONE



Type: Dynamic, Omni-Directional
Dimensions: 120.65mm x 79.25mm x 42.93mm
Operating Temperature: -30°C to +60°C
Impedance: 500Ω
Systems: Default Mic on Ion|IQ and Wireless IQ

SP10 SPEAKER



Wattage: 15 Watts Continuous
Dimensions: 120.65mm x 79.25mm x 42.93mm
Operating Temperature: -20°C to +60°C
Impedance: 8Ω
Systems: Default Speaker on Ion|IQ and Wireless IQ

DM5



DM6

SPECIFICATIONS

Microphone type: Electronic

Operating temperature: -22°F to +140°F (-30°C to +60°C)

Impedance: 200Ω

Dimensions: 3.5" x 1.75" (88.9mm x 44.45mm)

SPECIFICATIONS

Microphone type: Directional Electret

Level is -7dB typical @ 180°, 1kHz

Level is -20dB typical @ 120°, 1kHz

Input voltage: 18-24VDC

Input current: 10mA maximum @ 24VDC

Output level: Balanced across an 2kΩ load, -8

each line to ground with equalizer set fully

counterclockwise and an input of 1kHz @ 74dB SPL

Equalizer adjustment range: +0 to -10dB, ±5dB @ 3kHz

Terminating or load resistance: >2kΩ

Temperature range: -40° C to +80° C operating

Dimensions: Metal housing - 1.55" x 1.45" x 5.35" maximum

(39.37 x 36.83 x 135.89 mm)

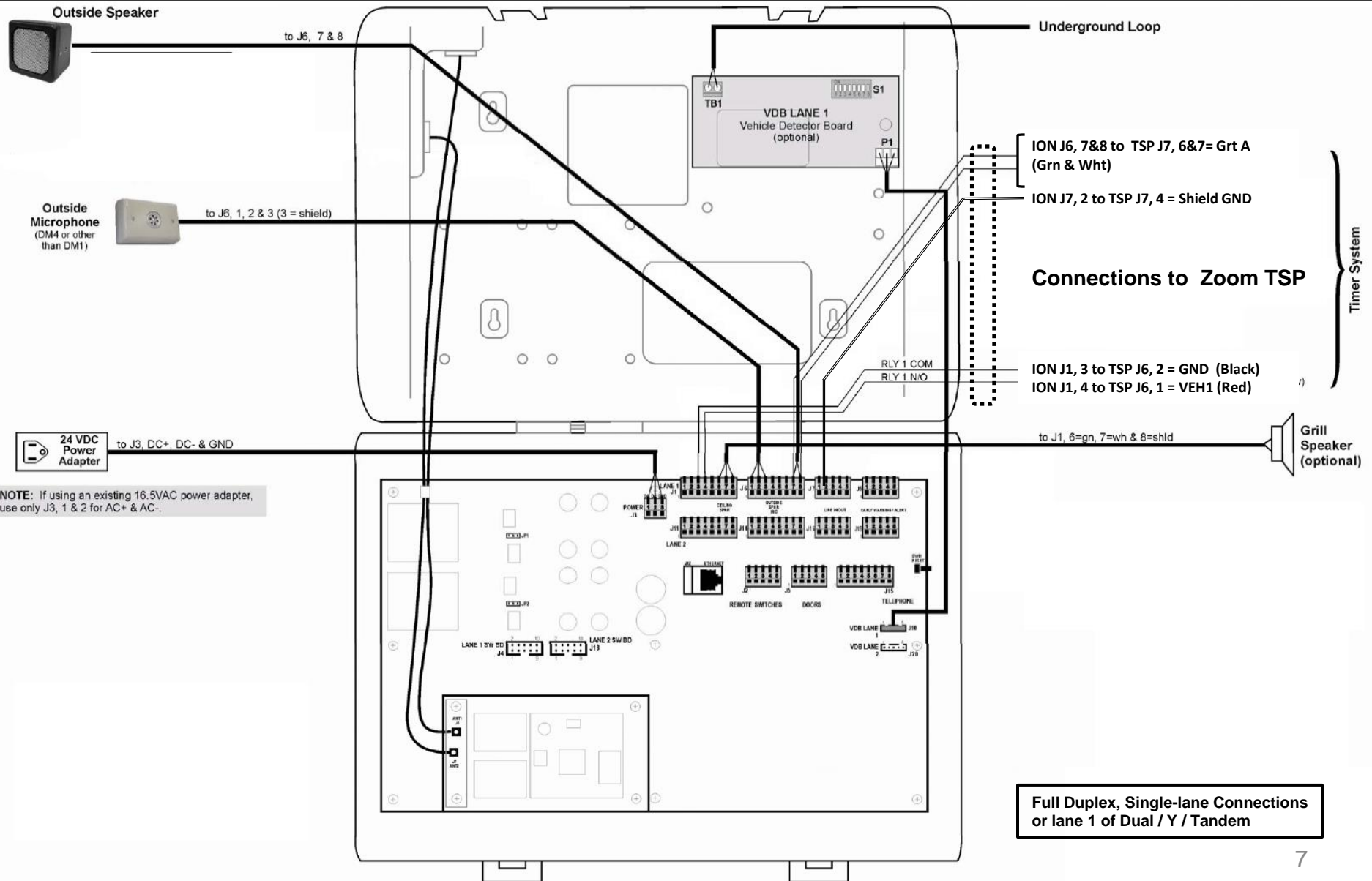
Mounting bracket - 3.5" x 3.5" x 3.7" maximum

(88.90 x 88.90 x 93.98 mm)

Output cable: Red = balanced audio out HI

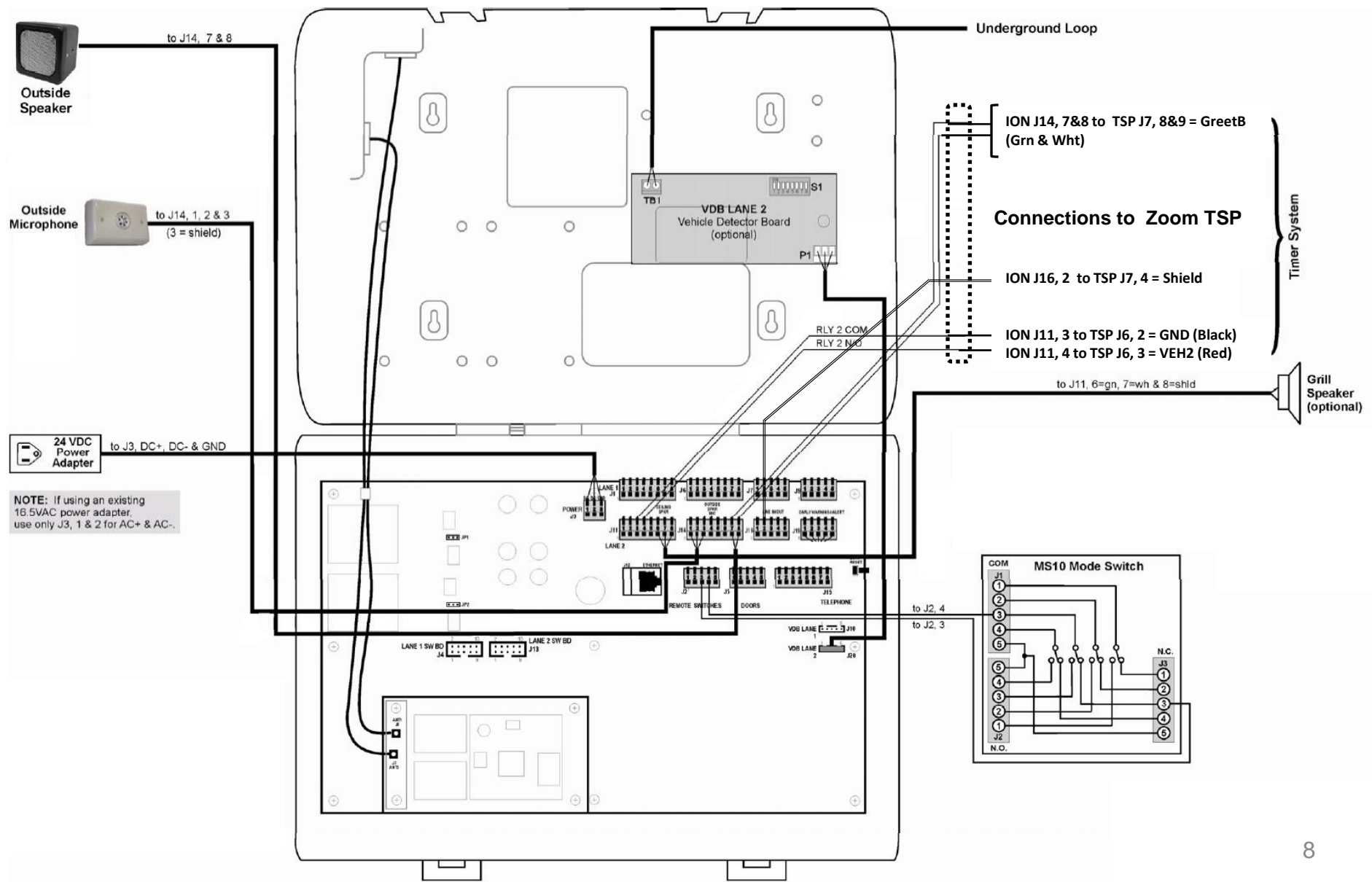
Black = balanced audio out LO

Shield = ground



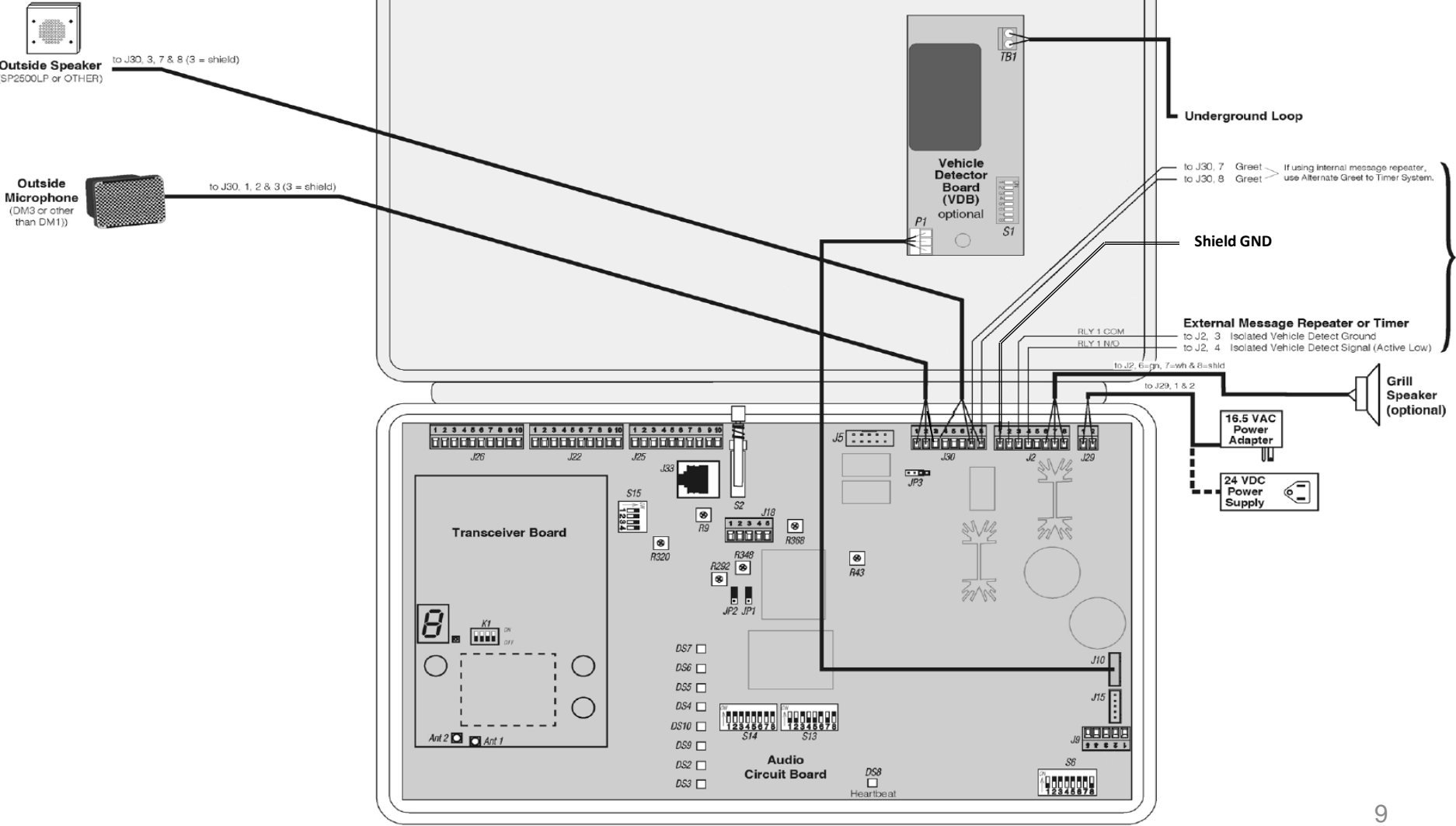


ION|IQ LANE 2 WIRING





WIRELESS IQ LANE 1 WIRING



Base station interconnect cable connections for dual-lane systems not using a mode switch

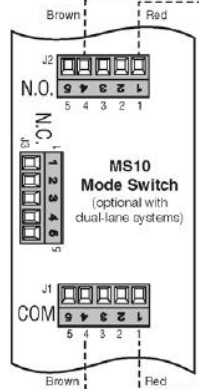
- J26**
- 1 = Brown = Vehicle Detect Out
 - 2 = Red = Vehicle Detect In
 - 3 = Orange = /A2 - Talk
 - 4 = Yellow = /B2 - Talk
 - 5 = Green = Car 2
 - 6 = Blue = (Shield) Ground
 - 7 = Violet = Transmitter Audio A2
 - 8 = Shield = Ground
 - 9 = White = Receiver Audio A2
 - 10 = Black = Receiver Audio B2 (B1+B2)

NOTE: The Primary Base Station must always be for Lane 1 and the Secondary Base Station must be for Lane 2.

NOTE: The GREEN MESSAGE CONTROL switch on the front of the Secondary Base Station must be in the ON position.

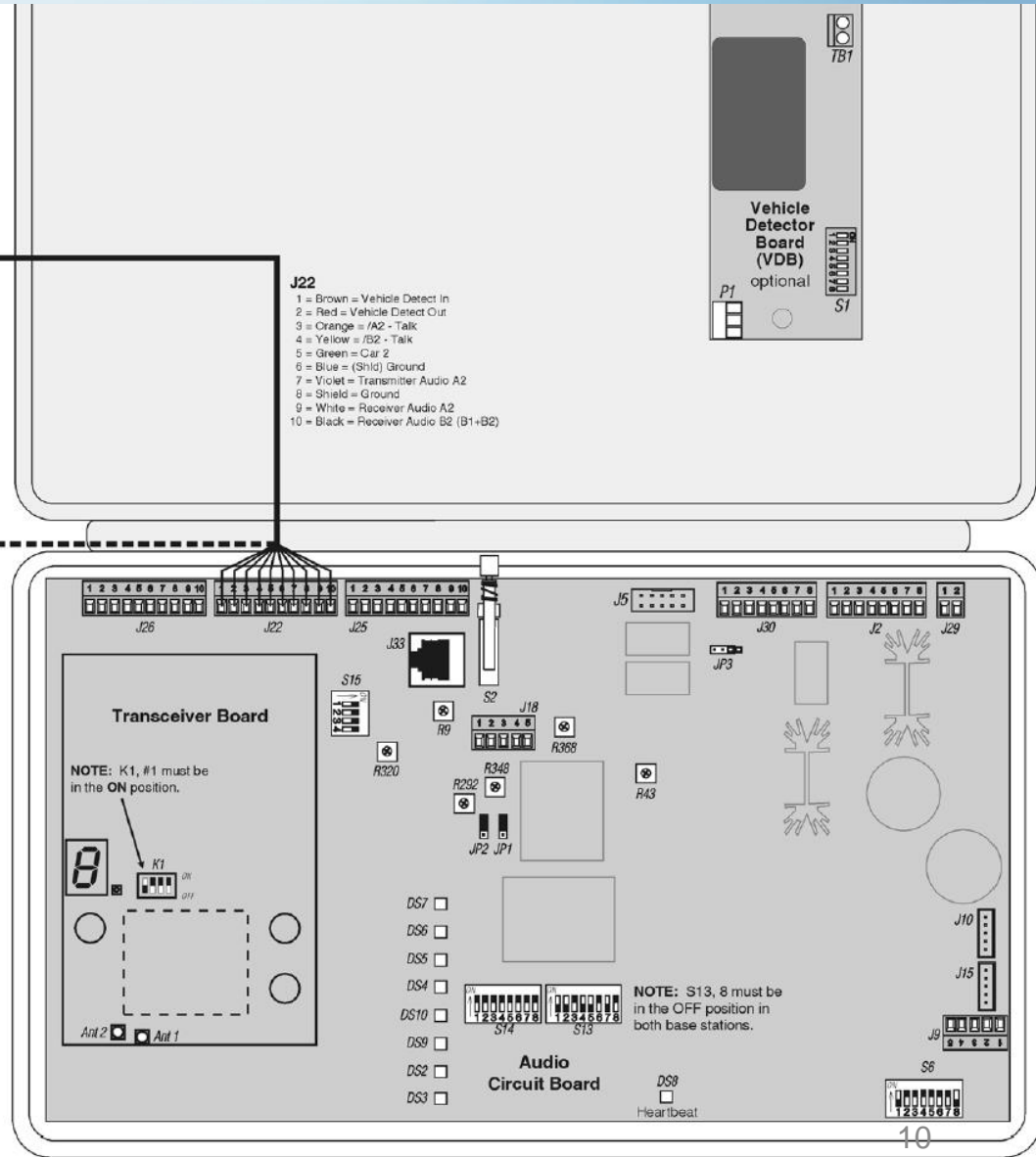
- J22**
- 1 = Brown = Vehicle Detect In
 - 2 = Red = Vehicle Detect Out
 - 3 = Orange = /A2 - Talk
 - 4 = Yellow = /B2 - Talk
 - 5 = Green = Car 2
 - 6 = Blue = (Shield) Ground
 - 7 = Violet = Transmitter Audio A2
 - 8 = Shield = Ground
 - 9 = White = Receiver Audio A2
 - 10 = Black = Receiver Audio B2 (B1+B2)

Base station interconnect cable connections for dual-lane systems if using a mode switch



- J2**
- 1 = Vehicle Detect In
 - 2 = not used
 - 3 = not used
 - 4 = Vehicle Detect Out
 - 5 = not used

- J1**
- 1 = Vehicle Detect In
 - 2 = not used
 - 3 = not used
 - 4 = Vehicle Detect Out
 - 5 = not used



WIRELESS IQ TANDEM WIRING

Base station interconnect cable connections for dual-lane systems not using a mode switch

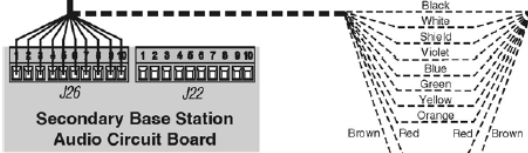
- J26**
- 1 = Brown = Vehicle Detect In
 - 2 = Red = Vehicle Detect In
 - 3 = Orange = /A2 - Talk
 - 4 = Yellow = /B2 - Talk
 - 5 = Green = Car 2
 - 6 = Blue = (Shield) Ground
 - 7 = Violet = Transmitter Audio A2
 - 8 = Shield = Ground
 - 9 = White = Receiver Audio A2
 - 10 = Black = Receiver Audio B2 (B1+B2)

NOTE: The Primary Base Station must always be for Lane 1 and the Secondary Base Station must be for Lane 2.

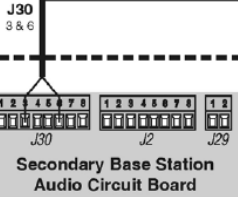
NOTE: The GREEN MESSAGE CONTROL switch on the front of the Secondary Base Station must be in the ON position.

10 conductor cable

Base station interconnect cable connections for dual-lane systems if using a mode switch



4 conductor cable

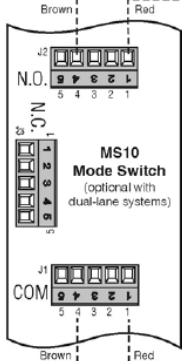


- J22**
- 1 = Brown = Vehicle Detect In
 - 2 = Red = Vehicle Detect Out
 - 3 = Orange = /A2 - Talk
 - 4 = Yellow = /B2 - Talk
 - 5 = Green = Car 2
 - 6 = Blue = (Shield) Ground
 - 7 = Violet = Transmitter Audio A2
 - 8 = Shield = Ground
 - 9 = White = Receiver Audio A2
 - 10 = Black = Receiver Audio B2 (B1+B2)

NOTE: The "Y" cable is used only in the Primary Base Station. A standard cable must be used in the Secondary Base Station to connect P1 on the VDB to J10 on the Audio Circuit Board.

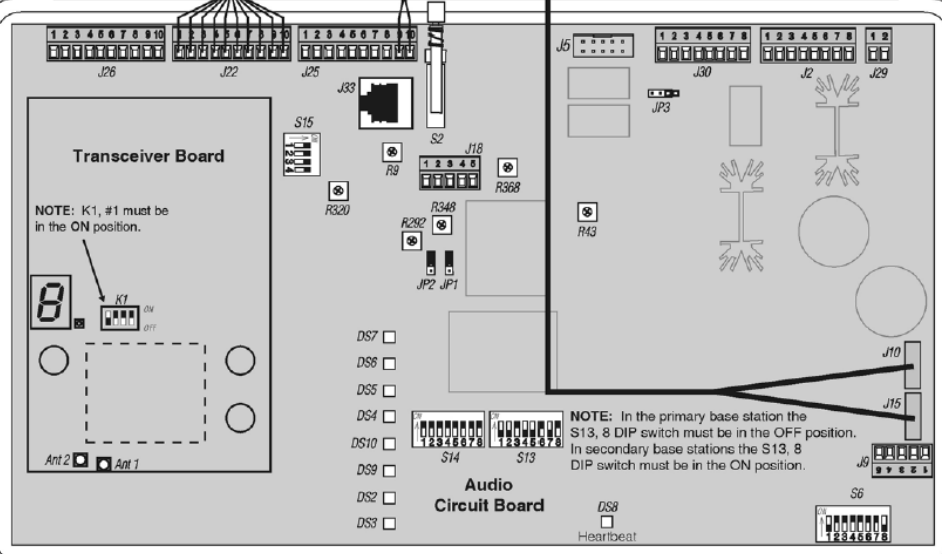


"Y" cable



- J2**
- 1 = Vehicle Detect In
 - 2 = not used
 - 3 = not used
 - 4 = Vehicle Detect Out
 - 5 = not used

- J1**
- 1 = Vehicle Detect In
 - 2 = not used
 - 3 = not used
 - 4 = Vehicle Detect Out
 - 5 = not used



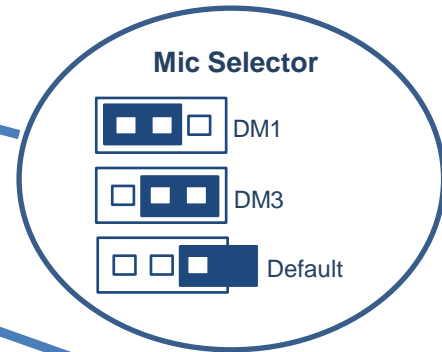
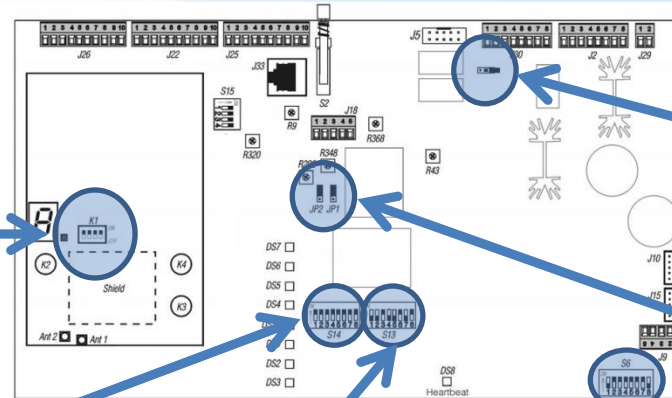
WIRELESS IQ INTERNAL SWITCHES

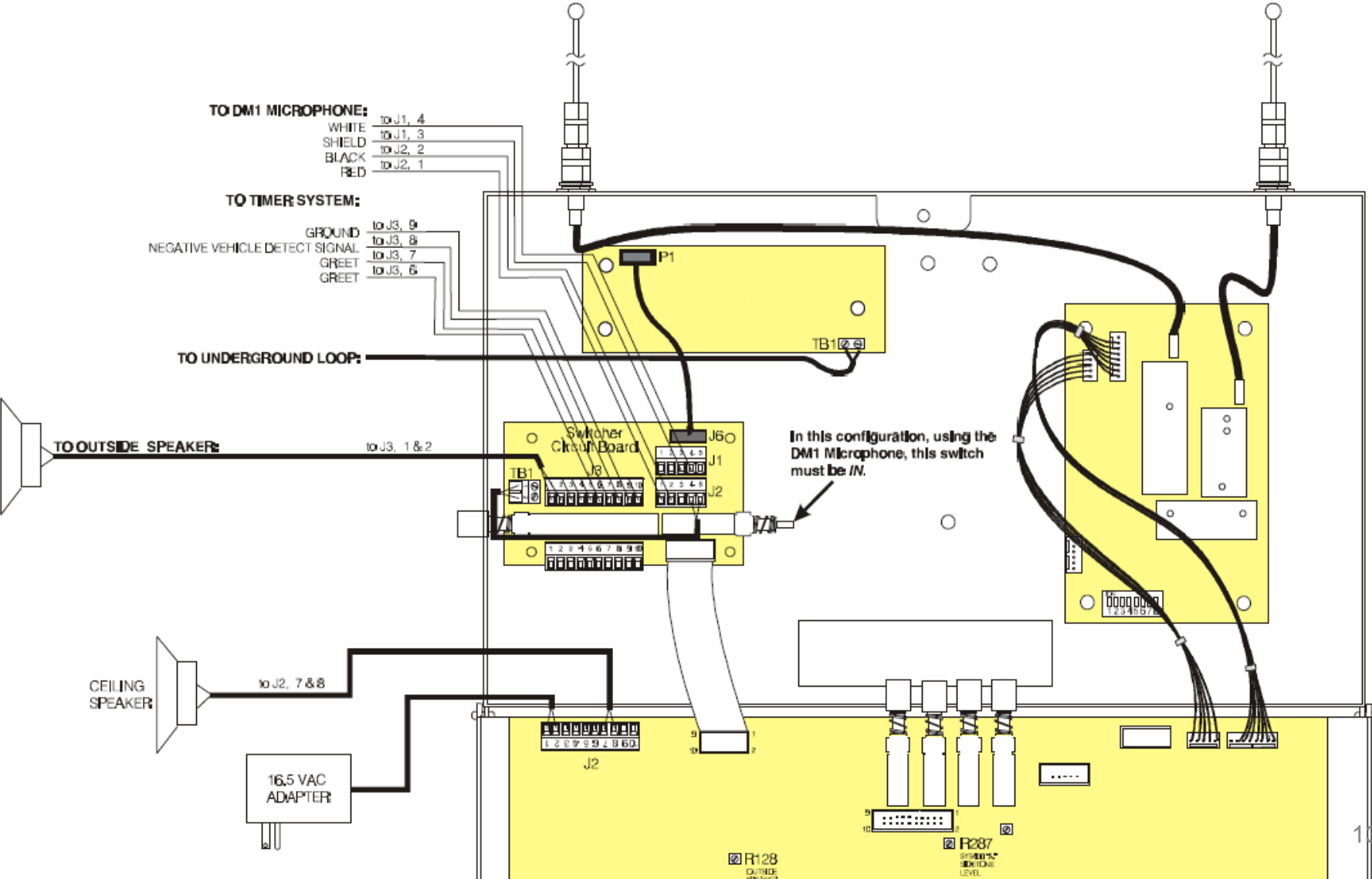
K1 Switches	Function
1	Dual Lane
2	Split B
3	Auto Hands Free
4	Do Not Activate

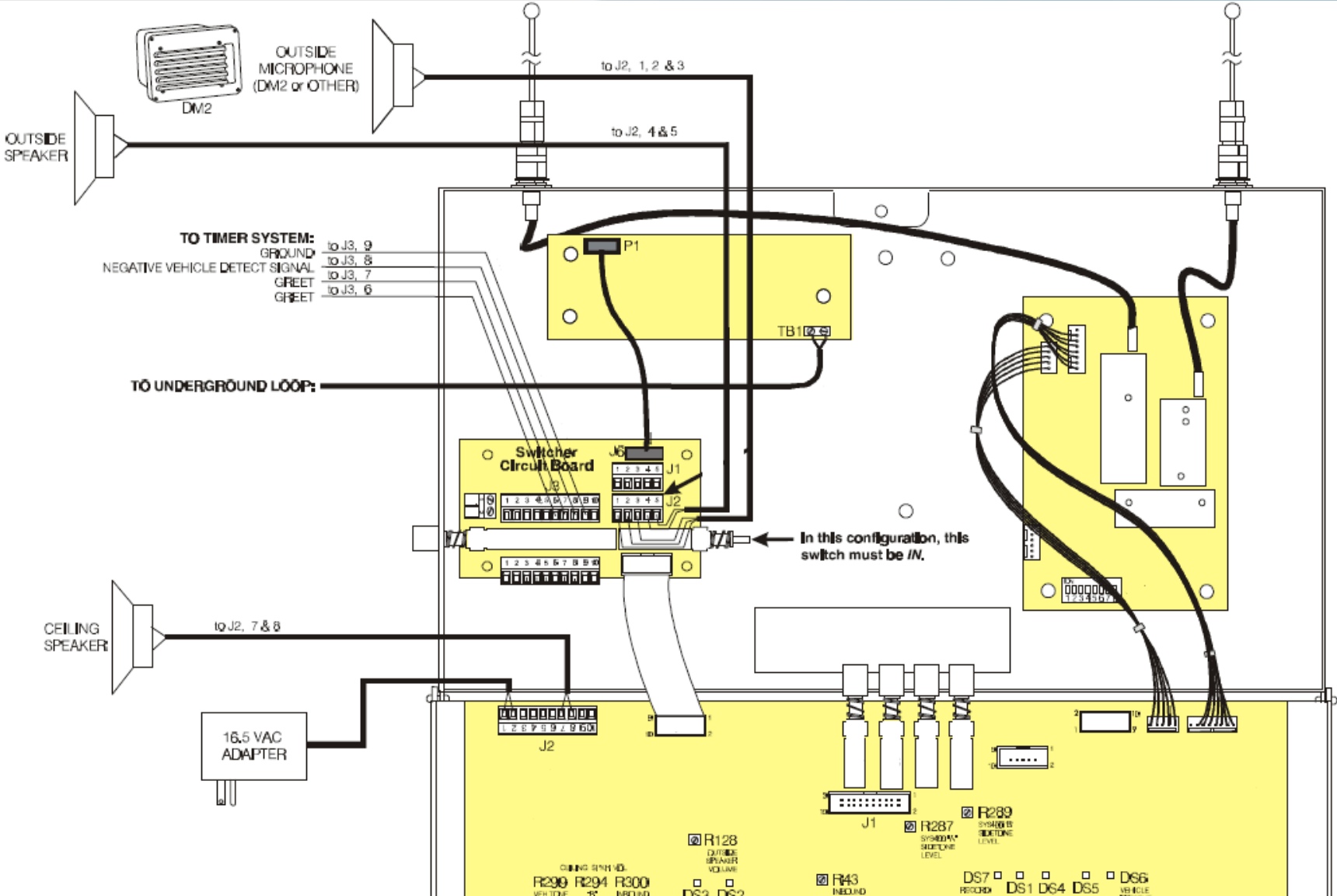
S14 Switch	Function
1	AVC
2	OFF
3	OFF
4	OFF
5-8	OFF

S13 Switches	Function
1	VAA
2	ClearSound
3-4	OFF/OFF – ClearSound Level 1 (Max) OFF/ON – ClearSound Level 2 ON/OFF – ClearSound Level 3 ON/ON – ClearSound Level 4 (Min)
5	Echo Cancel
6	Store Echo Cancel
7	Echo Cancel Limiter
8	Tandem

S6 Switch	Function
1	Full Duplex
2	A to Ceiling Speaker
3	B to Ceiling Speaker
4	Inbound to Ceiling Speaker
5	Detect Tone to Ceiling Speaker
6	OFF
7	OFF
8	Detect Tone



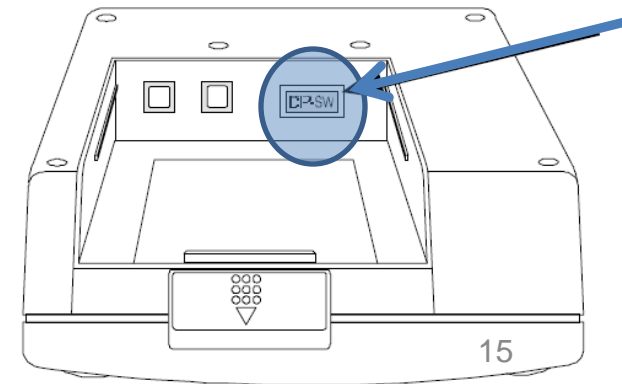
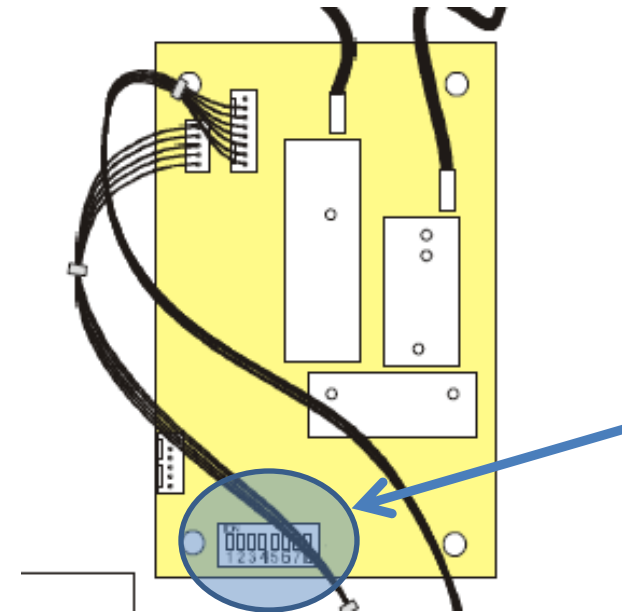




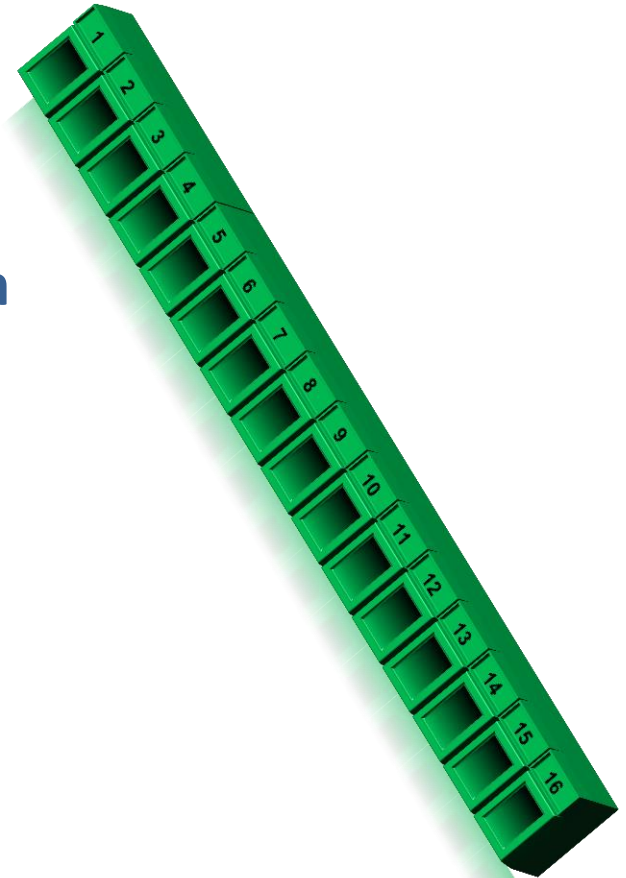
DIP Switches On COM400 and Base Station Should Match

CH.	DIP SWITCHES (LANE 1)							
0	▼	▼	▼	▼	▼	▼	▼	▼
1	▲	▼	▼	▼	▲	▼	▼	▼
2	▼	▲	▼	▼	▼	▲	▼	▼
3	▲	▲	▼	▼	▲	▲	▼	▼
4	▼	▼	▲	▼	▼	▼	▲	▼
5	▲	▼	▲	▼	▼	▼	▼	▼
6	▼	▲	▲	▼	▲	▼	▼	▼
7	▲	▲	▲	▼	▼	▲	▼	▼

DIP SWITCHES (LANE 2)							
▼	▲	▼	▼	▼	▲	▼	▼
▲	▲	▼	▼	▲	▲	▼	▼
▼	▼	▲	▼	▼	▼	▲	▼
▲	▼	▲	▼	▼	▼	▼	▼
▼	▲	▲	▼	▲	▼	▼	▼
▲	▲	▲	▼	▼	▲	▼	▼
▼	▼	▼	▼	▼	▼	▼	▼
▲	▼	▼	▼	▲	▼	▼	▼

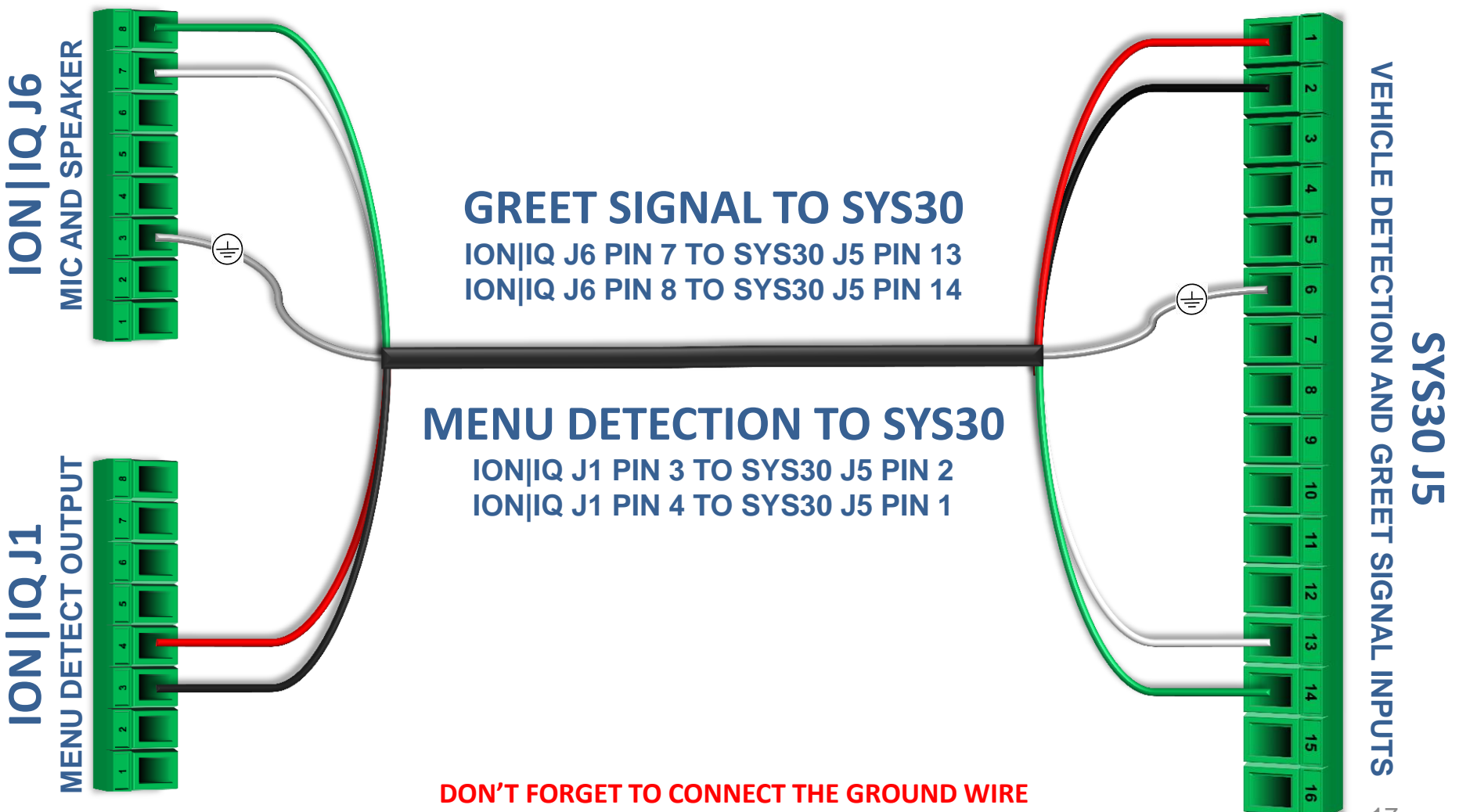


1. Menu detect, greet and ground from base are all in 1 cable
2. You must connect the ground on both ends of this 1 cable
3. Cover the ground wire with cable insulation
4. Greet is not polarity sensitive
5. Always clip all unused foil and shield wires
6. Never leave exposed conductor



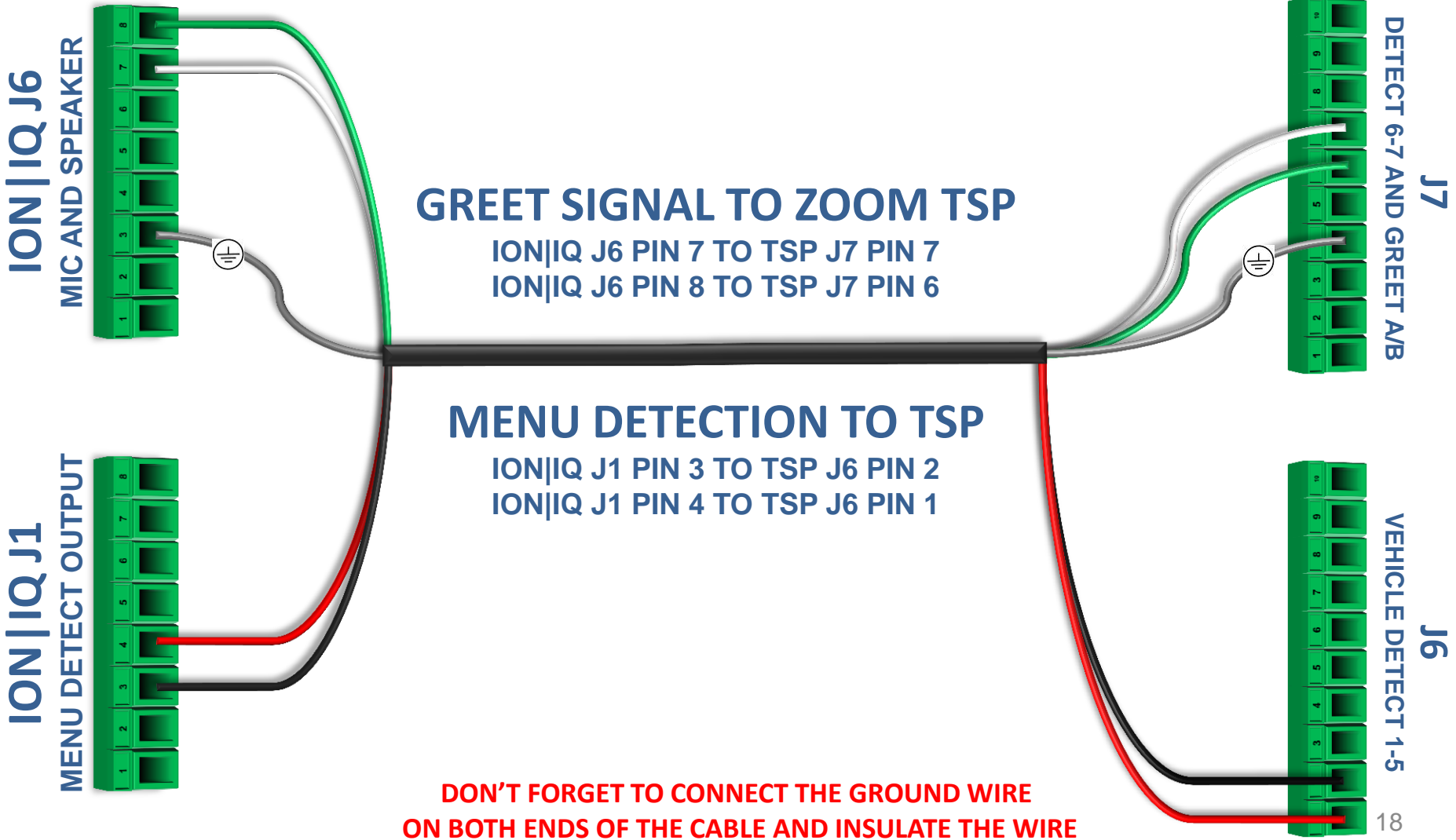


ION|IQ or EOS TO SYS30 (SINGLE LANE)



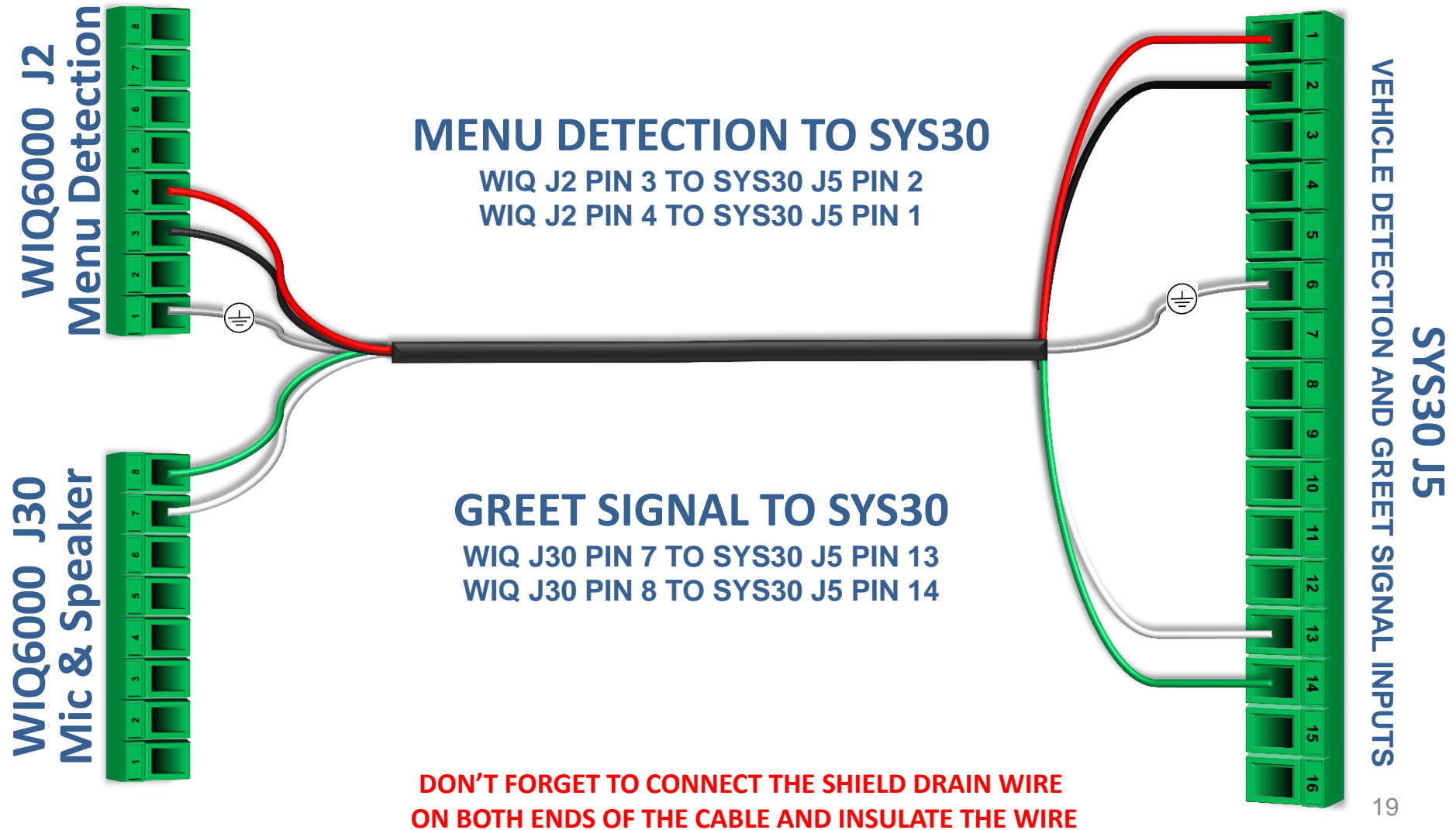
**DON'T FORGET TO CONNECT THE GROUND WIRE
ON BOTH ENDS OF THE CABLE AND INSULATE THE WIRE**

ION | IQ or EOS to ZOOM (SINGLE LANE)



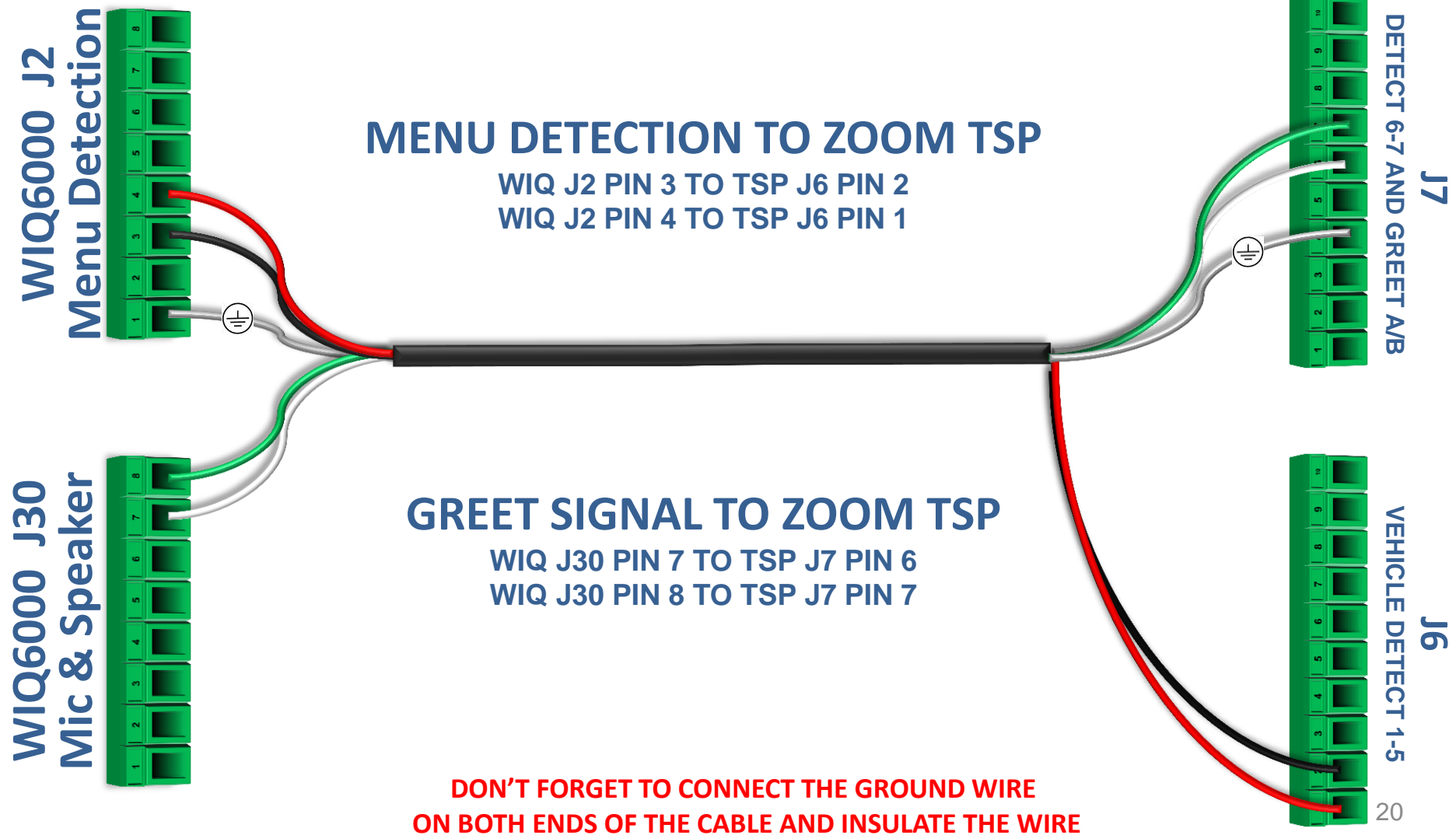


WIRELESS IQ6000 TO SYS30 (SINGLE LANE)

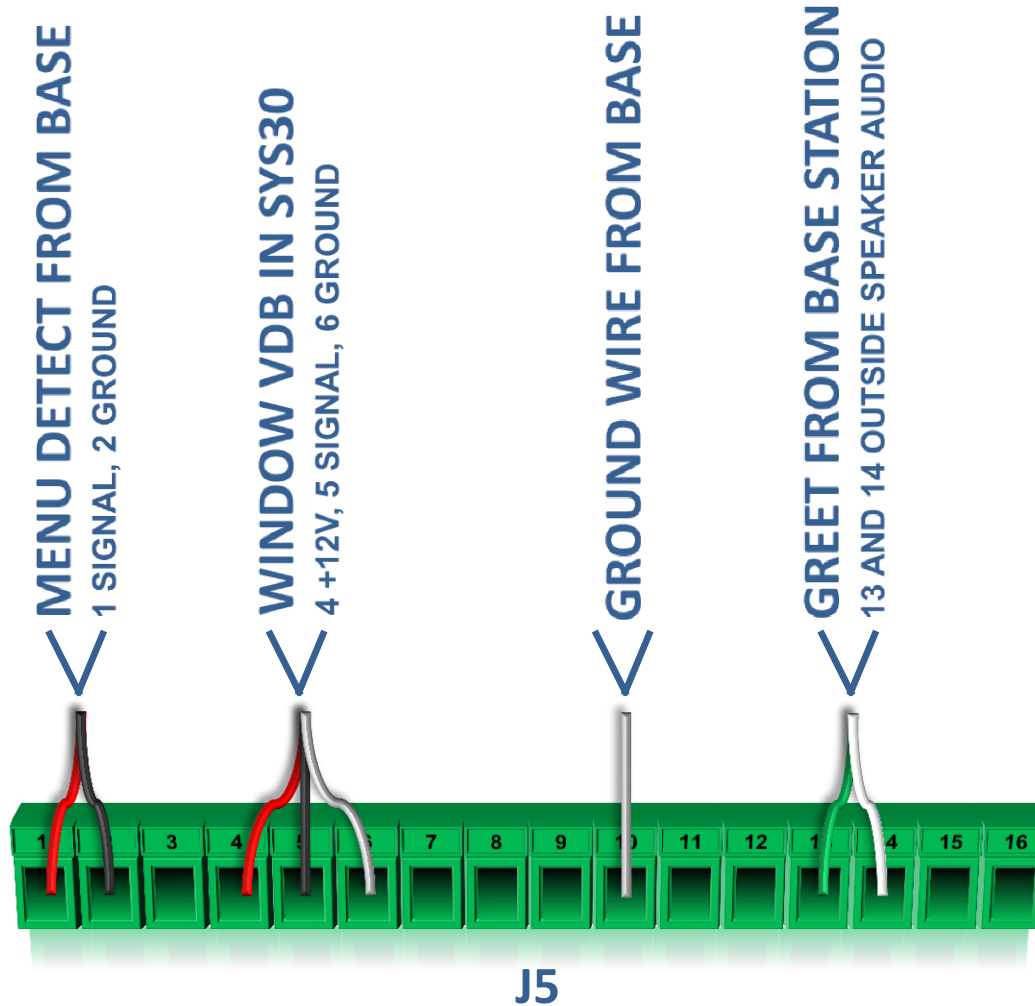




WIRELESS IQ6000 TO ZOOM (SINGLE LANE)



SYS30 WIRING (SINGLE LANE, 1 WINDOW)

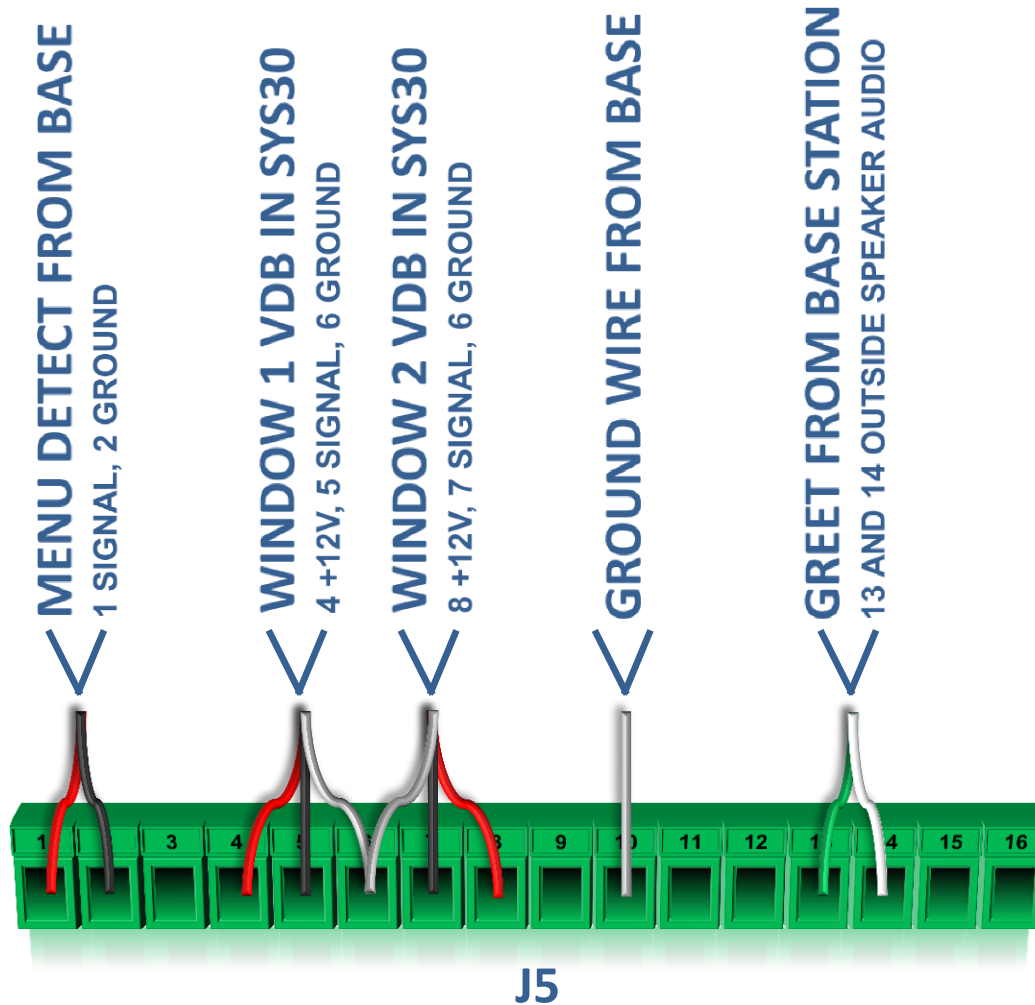


J5
VEHICLE DETECTION AND GREET SIGNAL INPUTS



J6
POWER AND REMOTES 21

SYS30 WIRING (SINGLE LANE, 2 WINDOWS)

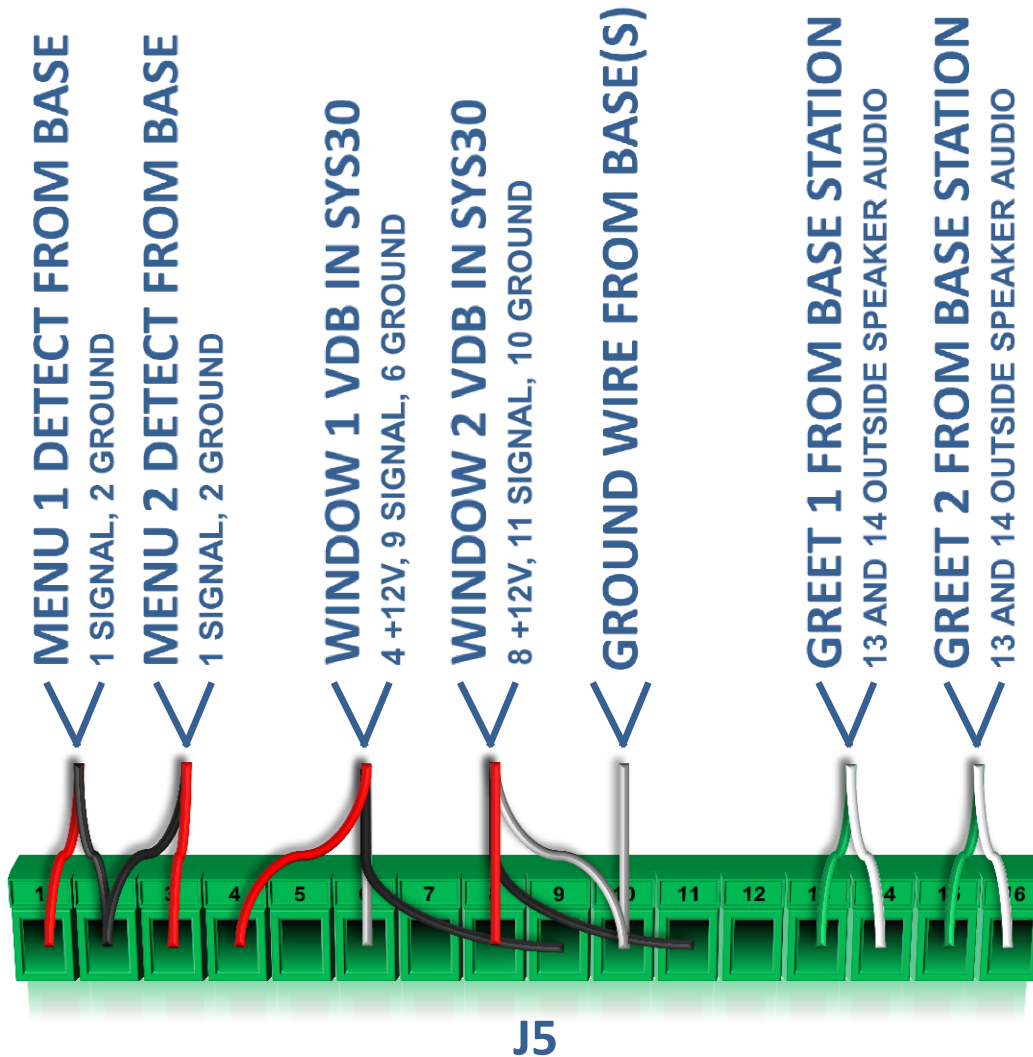


VEHICLE DETECTION AND GREET SIGNAL INPUTS



POWER AND REMOTES 22

SYS30 WIRING (DUAL LANE)



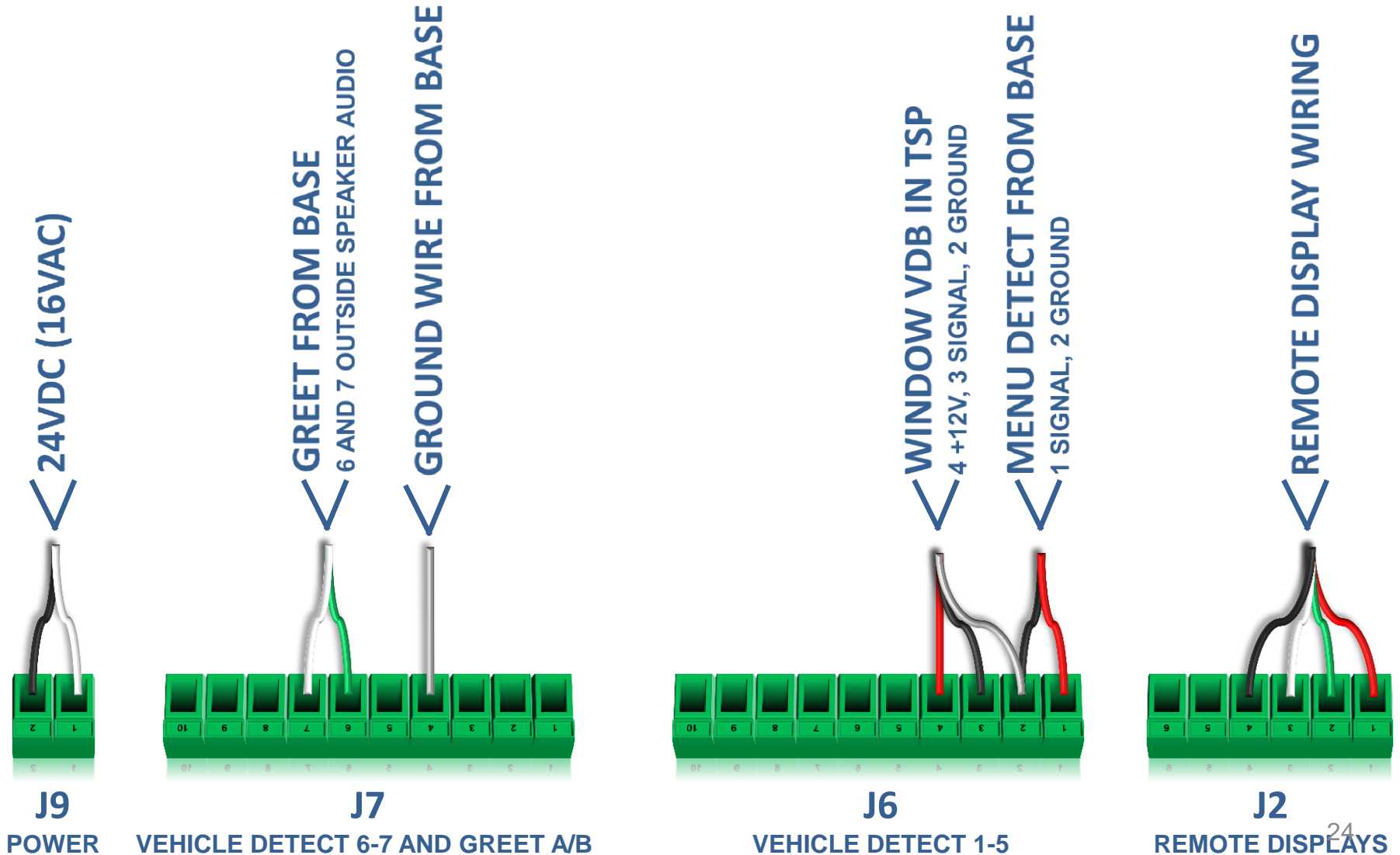
VEHICLE DETECTION AND GREET SIGNAL INPUTS



POWER AND REMOTES

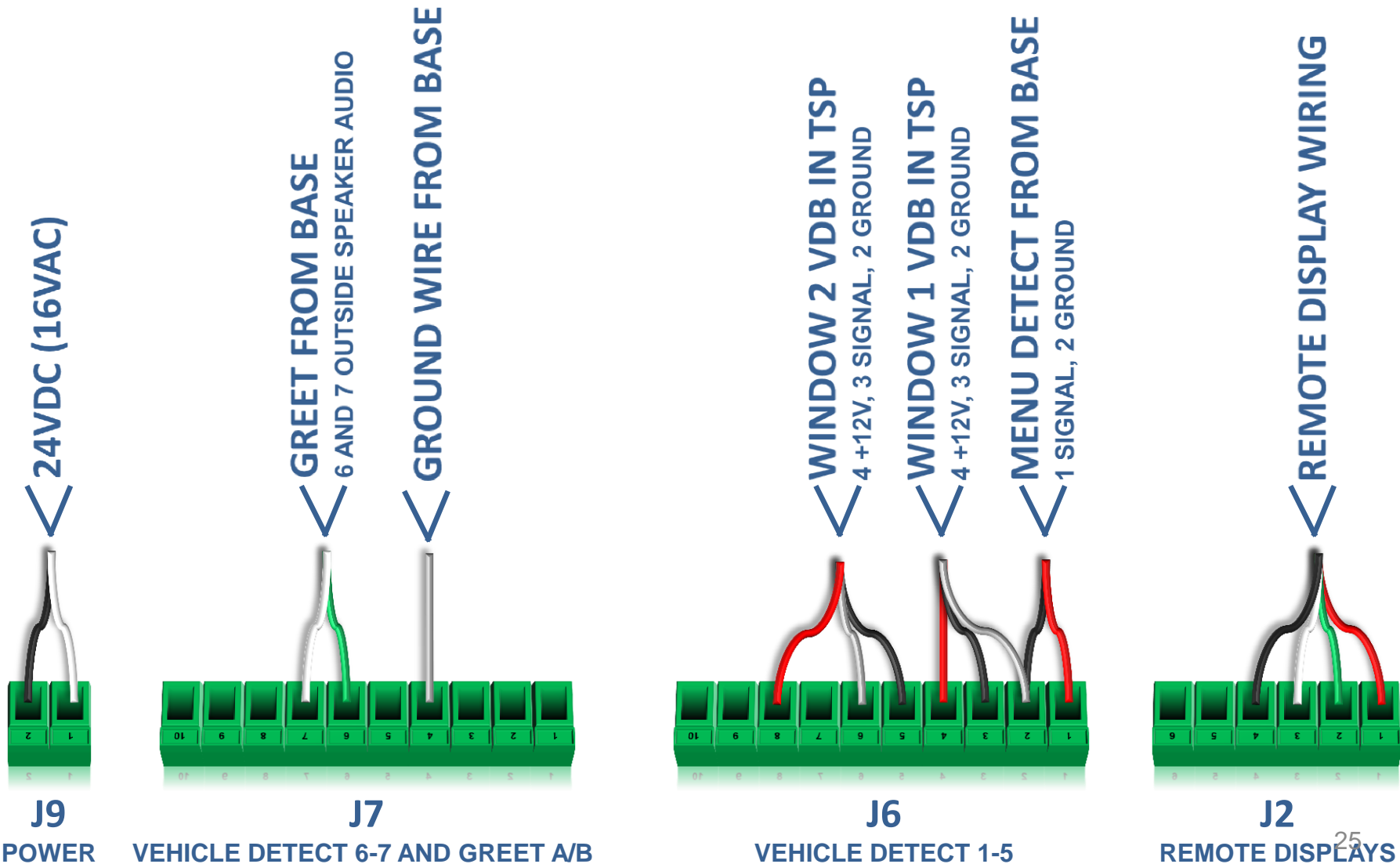


TSP WIRING (SINGLE LANE, 1 WINDOW)

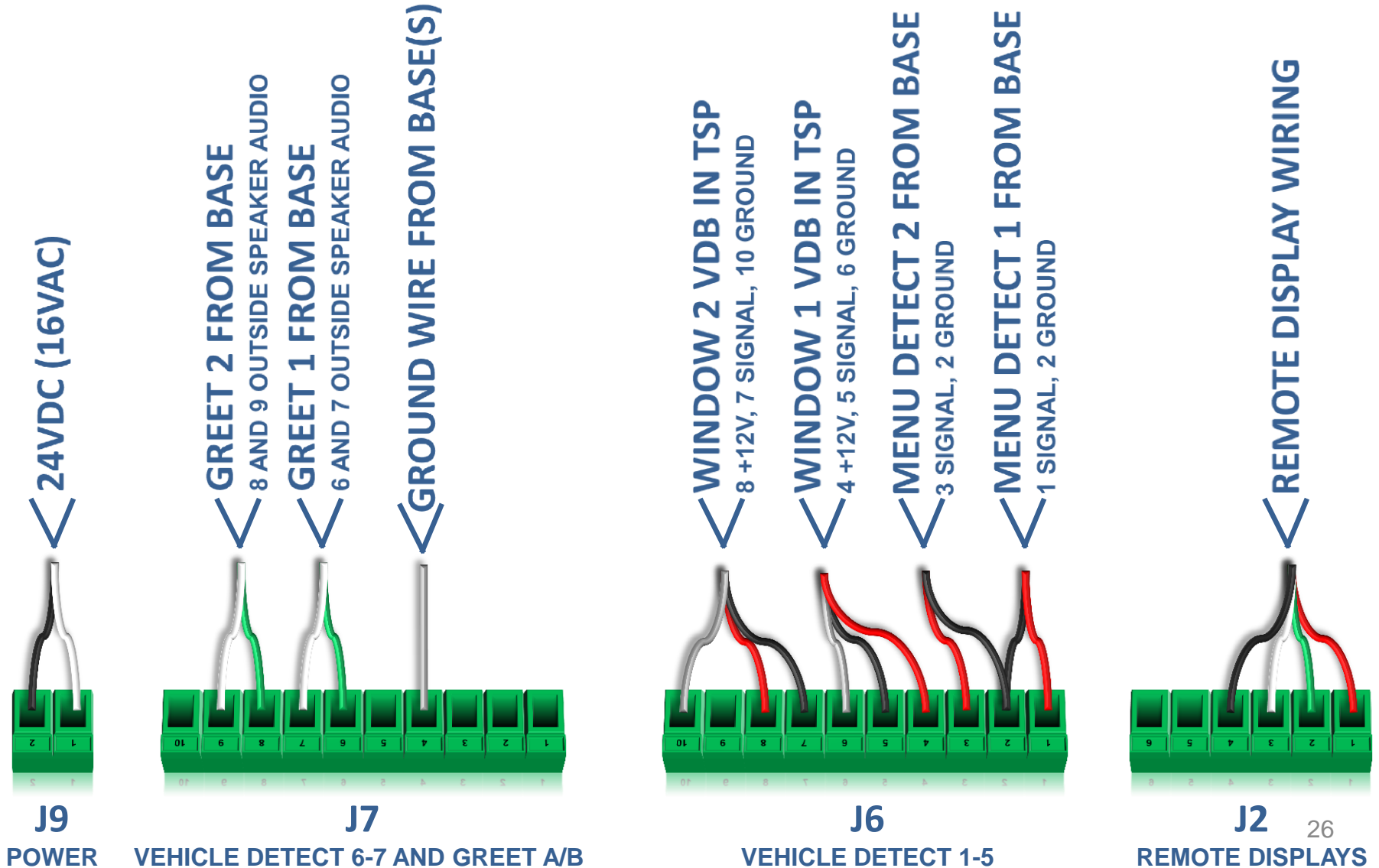




TSP WIRING (SINGLE LANE, 2 WINDOWS)



TSP WIRING (DUAL LANE)



TSP WIRING (Y LANE)

