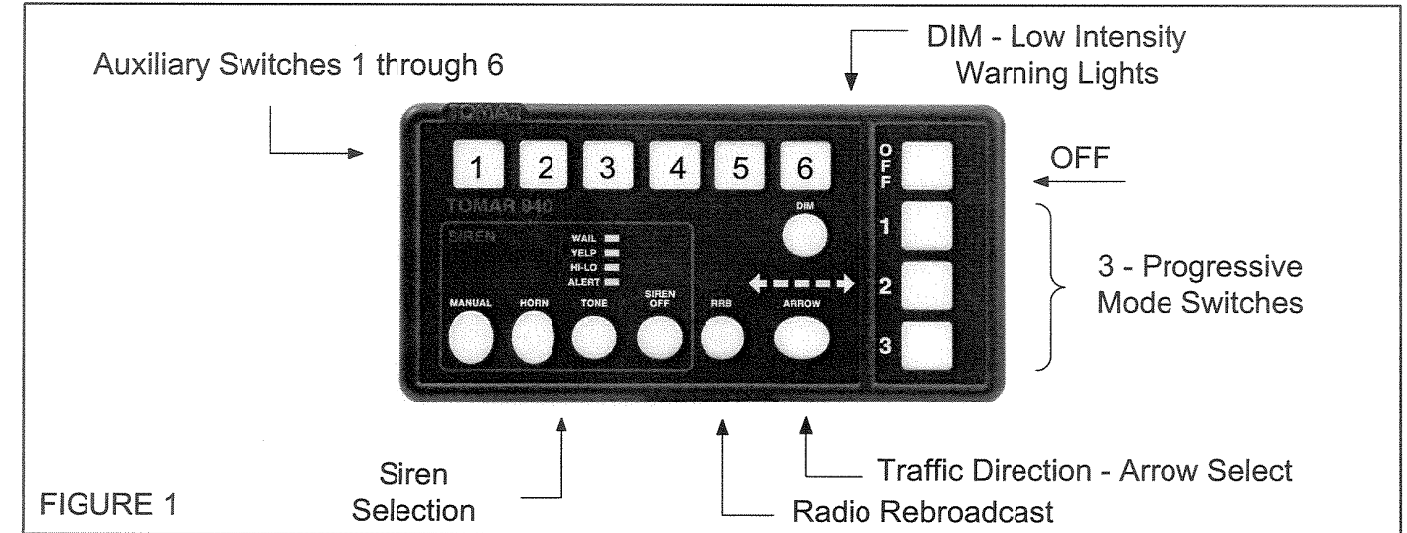


Tomar 940N-Siren Operation & Installation Instructions Emergency Vehicle Warning Lightbar & Auxiliary Accessory Control System

➤ Control a Lightbar - using the Tomar 940N-Siren

The 940N-Siren can operate any Tomar 930N or 930NH Lightbar. The comprehensive 940N-DCP Digital Control Panel factory default programming allows for easy installation and connection of Lightbar control wires and auxiliary accessories.



➤ Factory Ready Tomar 940N-Siren

The 940N-Siren is factory ready for installation and operation of any Tomar 930N or 930NH Lightbars.

AUXILIARY switches # 1 through 5 are Toggle-On-Off, AUXILIARY switch # 6 is Momentary.

The **3-PROGRESSIVE MODE** switches are Toggle-On-Off. Mode 1 activates (1) control wire, Mode 2 activates (1 & 2) control wires and Mode 3 activates (1, 2 & 3) control wires.

The **ARROW** is a Toggle-On-3 Cycle-Off button. The initial Traffic Direction mode is Left Arrow, followed by Right Arrow, Center-out and Off. The active Traffic Direction will be demonstrated by the arrow display above the ARROW button.

The **3-PROGRESSIVE MODE** and **ARROW** features override each other, Activating a Mode switch will deactivate the Arrow function and activating the Arrow function will deactivate the Mode switches.

The **DIM** switch is a Toggle-On-Off and is illuminated when Low Intensity Warning Light is activated.

The **OFF** switch will deactivate the active switches in the following order; 3-MODE switches or ARROW switch, and all AUXILIARY switches. The first press of the OFF switch will deactivate the 3-MODE switches or the ARROW switch, and the second press will deactivate all the AUXILIARY switches. When programmed as RRB/MIC volume control, the AUXILIARY # 6 can not be deactivated by the OFF switch.

The **SIREN OFF** button is a Toggle-On-Off and is illuminated when OFF. With SIREN OFF, the MANUAL tone (Manual WAIL) and HORN may still be activated. The SIREN TONE and MANUAL secondary tone are only activated in Mode 3 and will be Off or On based on the last state of the SIREN OFF button.

The **TONE** button selects one 1 of 4 tones WAIL, YELP, HI-LO or ALERT. The initial tone is WAIL. The last tone selected will remain the initial tone until the operator selects another.

The **MANUAL** button, when the SIREN Tone is not activated, will momentarily sound the MANUAL WAIL Tone. When the SIREN Tone is activated, the MANUAL button will momentarily sound the associated secondary tone. For example the factory default secondary tone for WAIL is YELP. The 4 TONE positions (WAIL, YELP, HI-LO and ALERT) all have an associated secondary tone. Pressing the MANUAL button a second time, while the secondary tone is operating, will return the unit to the primary tone.

The **HORN** button is a Momentary switch which activates the 940N-DCP Electronic Air Horn.

The **RRB** (RADIO REBROADCAST) Toggle-On-Off button when activated will transmit radio or dispatch audio through the siren amplifier.

940N-SIREN CONNECTIONS

Figure 2 shows the rear view of the 940N-Siren and its typical connections.

3-PROGRESSIVE MODE Switch Application

Terminal # 10	(5 Amps max.)	(ON = +12 vdc)	MODE 1 (ORANGE)
Terminal # 9	(10 Amps max.)	(ON = +12 vdc)	MODE 2 - Auxiliary
Terminal # 8	(10 Amps max.)	(ON = +12 vdc)	MODE 3 - Auxiliary

ARROW Switch Application

Terminal # 17	(5 Amps max.)	(ON = +12 vdc)	LEFT ARROW (WHT/BLK)
Terminal # 18	(5 Amps max.)	(ON = +12 vdc)	RIGHT ARROW (BLU)

AUXILIARY Switch Application

Terminal # 7	(10 Amps max.)	(ON = +12 vdc)	AUX # 1 (BRN)
Terminal # 6	(10 Amps max.)	(ON = +12 vdc)	AUX # 2 (RED/WHT)
Terminal # 5	(10 Amps max.)	(ON = +12 vdc)	AUX # 3 (GRY)
Terminal # 4	(10 Amps max.)	(ON = +12 vdc)	AUX # 4 (YEL)
Terminal # 3	(10 Amps max.)	(ON = +12 vdc)	AUX # 5
Terminal # 2	(10 Amps max.)	(ON = +12 vdc)	AUX # 6

MAXIMUM of 25 Amps load combined for above Output Terminals # 2 through # 10, # 17 & # 18

DIM Switch Application

Terminal # 1	(150ma max.)	(Profile N1; ON = OPEN, OFF = Grounded)	DIM (GRN)
			(Profile N2 Factory Default; OFF = OPEN, ON = Grounded)

Additional SIREN AMP Terminal Connections

Terminal # 11	Horn Ring	(+12 VDC or Ground Activated)
Terminal # 12	Horn Relay	(To Vehicle Horn)
Terminal # 13	Air Horn	(+12 VDC or Ground Activated)
Terminal # 14	Alarm	(Ground Activated - 8 second delay)
Terminal # 15	Park Kill	(Ground Activated)
Terminal # 16	Ignition	(+12 VDC Activated)
Terminal # 19 & 20	Speaker	11 ohm 100-200 Watt Max Load

Microphone Pin Connections

PIN # 1	N/C
PIN # 2	PTT HI
PIN # 3	AUDIO HI
PIN # 4	N/C
PIN # 5	AUDIO LO
PIN # 6	AUDIO OUT / DC BIAS
PIN # 7	N/C
PIN # 8	PTT LOW

RJ-45 MASTER - SLAVE PORTS

MASTER	940N-DCP Digital Control Panel - for remote connection only
SLAVE	Connect Slave Amplifier Unit

SIREN TONES

Associated MANUAL Secondary Tone

WAIL	YELP
YELP	Hyper-YELP
HI-LO	Hyper-HI-LO
ALERT	Hyper-ALERT

NOTE: SIREN TONES and Associated MANUAL Secondary Tones are, by factory default, activated in Mode 3 operation only.

Example: 940N-SIREN AMP to TOMAR 930N or 930NH LIGHTBAR

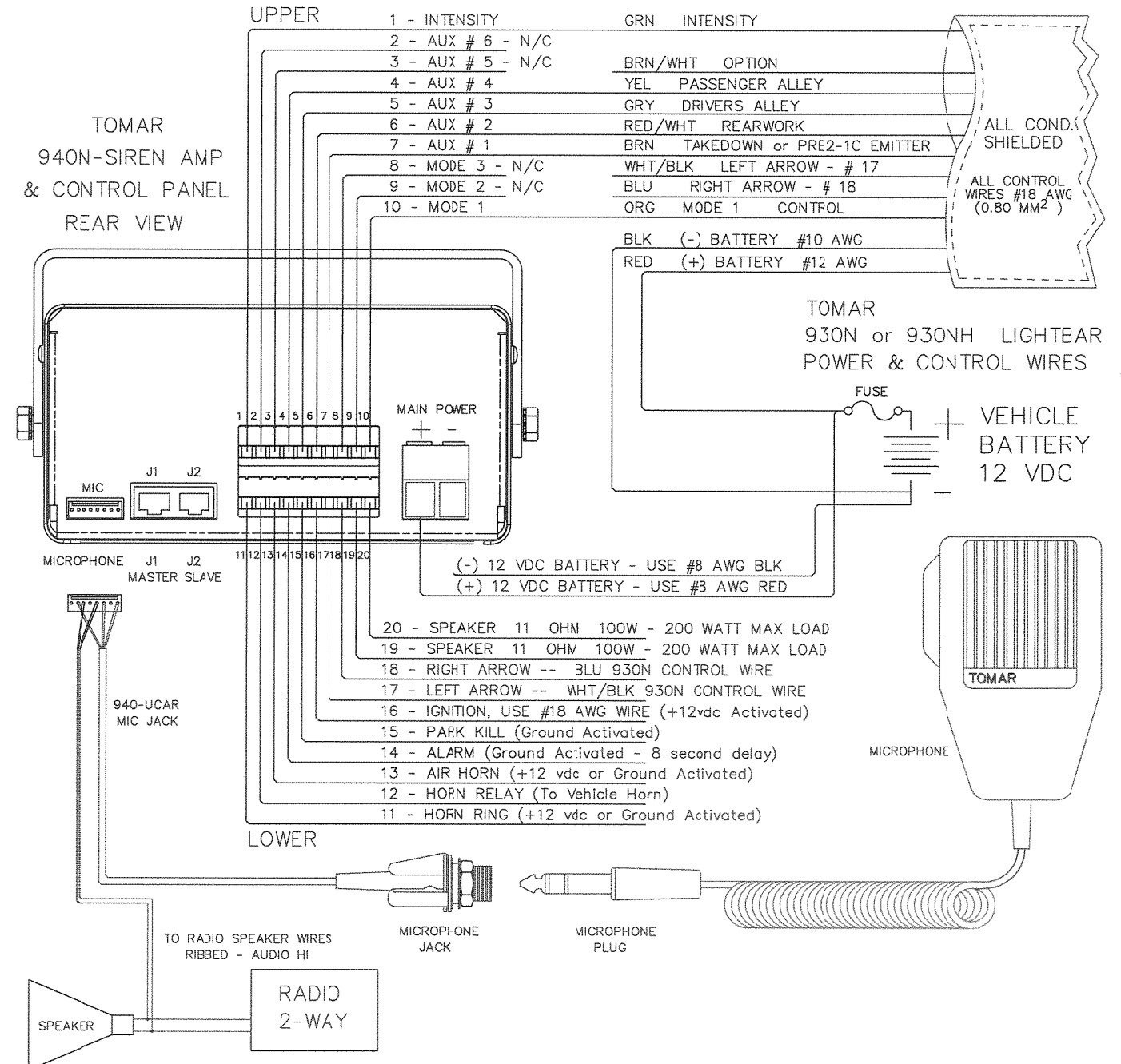


FIGURE 2