

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

➤ **Control a Lightbar - using the Tomar 940L-Siren**

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

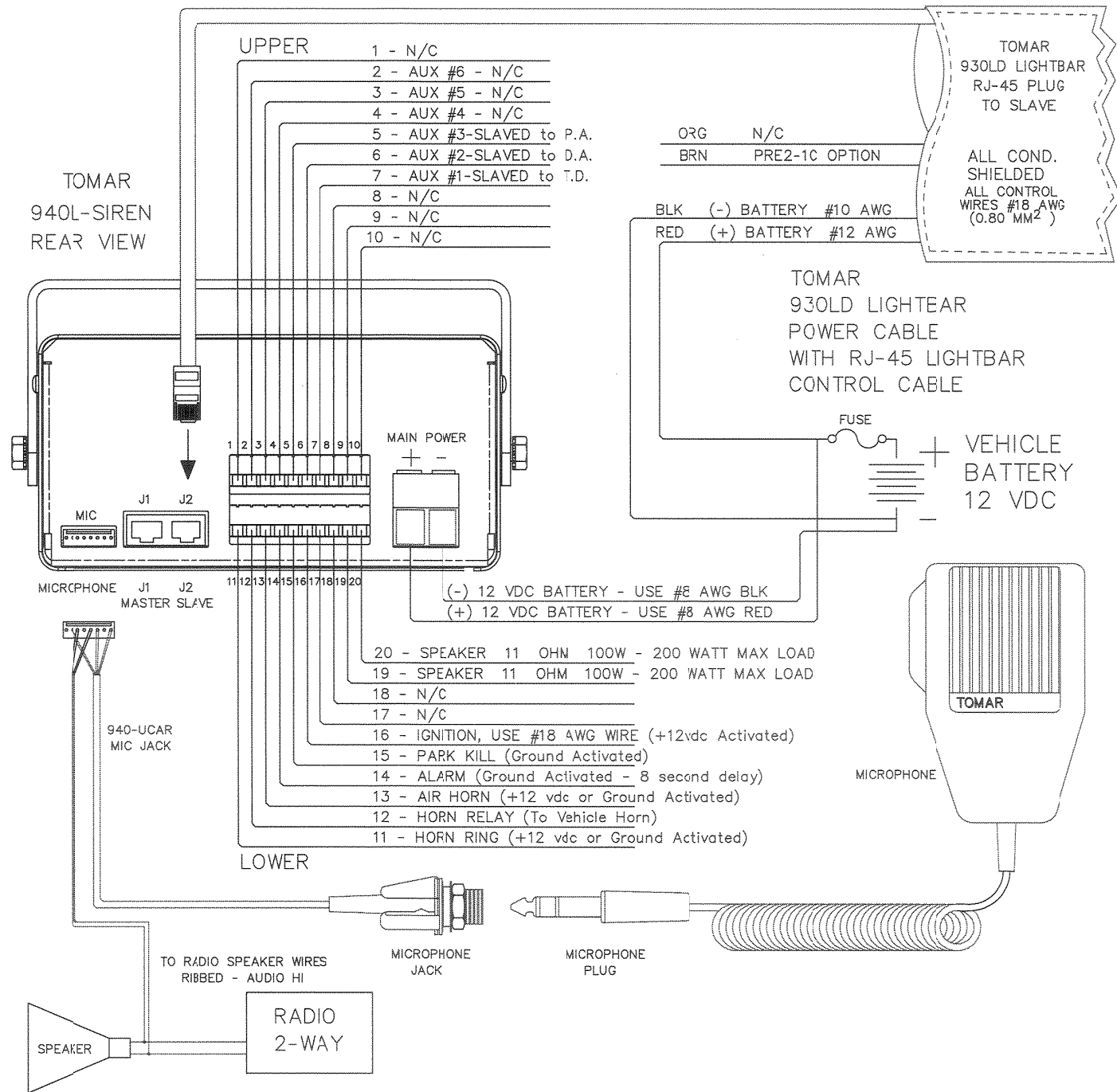


FIGURE 3

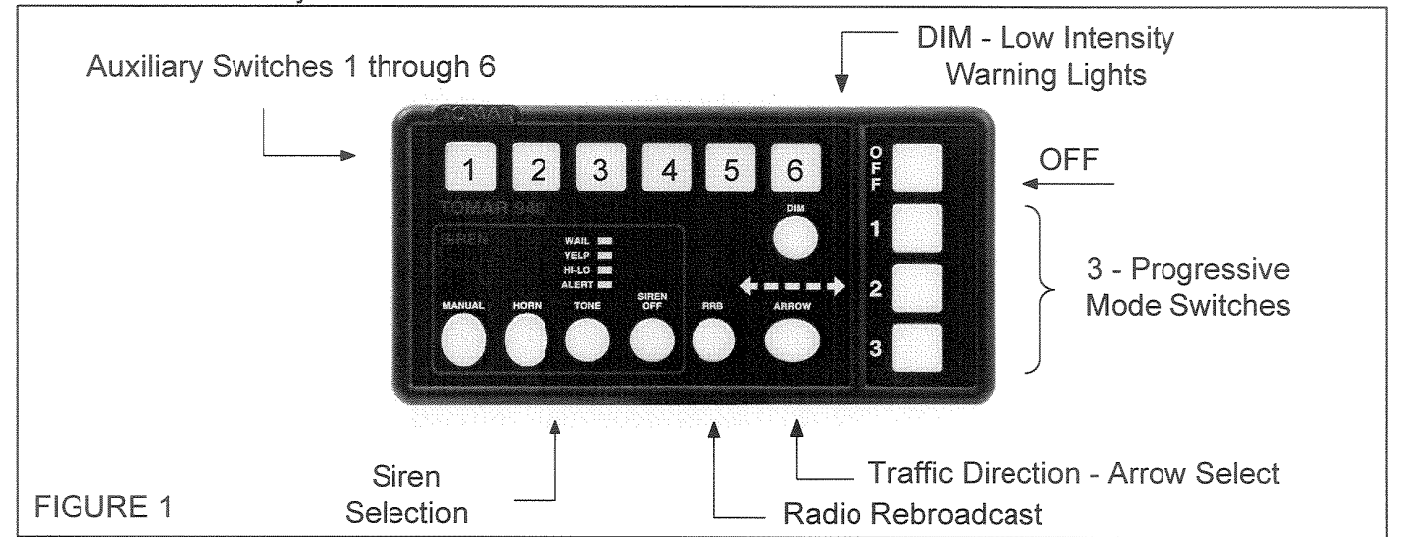


FIGURE 1

➤ **Factory Ready Tomar 940L-Siren**

The 940L-Siren is factory ready for installation and operation of any Tomar 930L or 930NL 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-off and Off. The active Traffic Direction will be demonstrated by the arrow display above the **ARROW** button.

The **ARROW** features can be activated independently, or in conjunction with, the **3-PROGRESSIVE 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, the **ARROW** switch, and all **AUXILIARY** switches. If all three are active, the first press of the **OFF** switch will deactivate the 3-MODE switches, the second press will deactivate the **ARROW** switch, and the third 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 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 940L-DCP Electronic Air Horn.

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

940L-SIREN CONNECTIONS

Figure 2 shows the rear view of the 940L-Siren and its typical connections to a Tomar 930L-4805.
Figure 3 shows the rear view of the 940L-Siren and its typical connections to a Tomar 930LD-4805.

3-PROGRESSIVE MODE Switch Application

Terminal # 10	(5 Amps max.)	(ON = +12 vdc)	MODE 1 (ORANGE for 930L)
Terminal # 9	(10 Amps max.)	(ON = +12 vdc)	MODE 2 (BLUE for 930L)
Terminal # 8	(10 Amps max.)	(ON = +12 vdc)	MODE 3 (WHT/BLK for 930L)

ARROW Switch Application

Terminal # 17	(5 Amps max.)	(ON = +12 vdc)	LEFT ARROW (BRN/WHT for 930L)
Terminal # 18	(5 Amps max.)	(ON = +12 vdc)	RIGHT ARROW (RED/WHT for 930L)

AUXILIARY Switch Application

Terminal # 7	(10 Amps max.)	(ON = +12 vdc)	AUX # 1 (BRN for 930L) (SLAVED for 930LD T.D.)
Terminal # 6	(10 Amps max.)	(ON = +12 vdc)	AUX # 2 (GRY for 930L) (SLAVED for 930LD D.A.)
Terminal # 5	(10 Amps max.)	(ON = +12 vdc)	AUX # 3 (YEL for 930L) (SLAVED for 930LD P.A.)
Terminal # 4	(10 Amps max.)	(ON = +12 vdc)	AUX # 4
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.)	(ON = Grounded, OFF = OPEN)	DIM (GRN for 930L)
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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

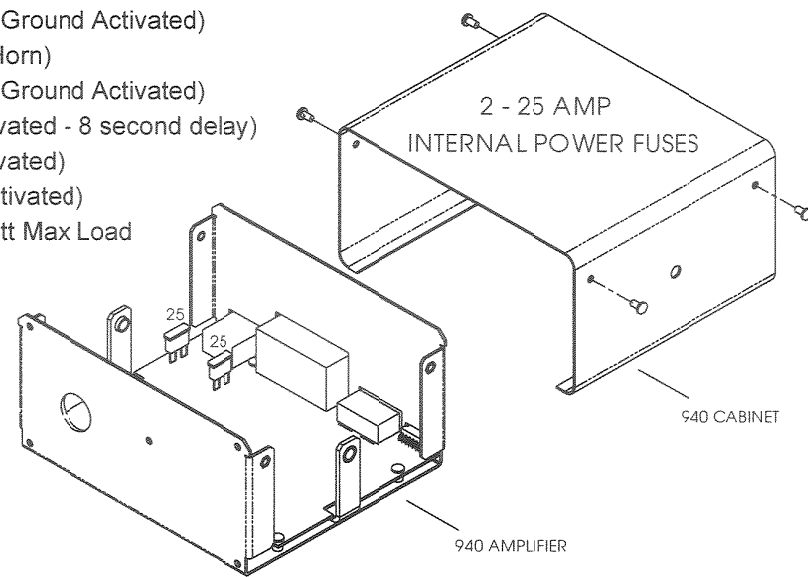
MASTER	940L-DCP Digital Control Panel - for remote connection only
SLAVE	Connect Slave Amplifier Unit or a Tomar 930LD Series Lightbar

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: 940L-SIREN to TOMAR 930L LIGHTBAR

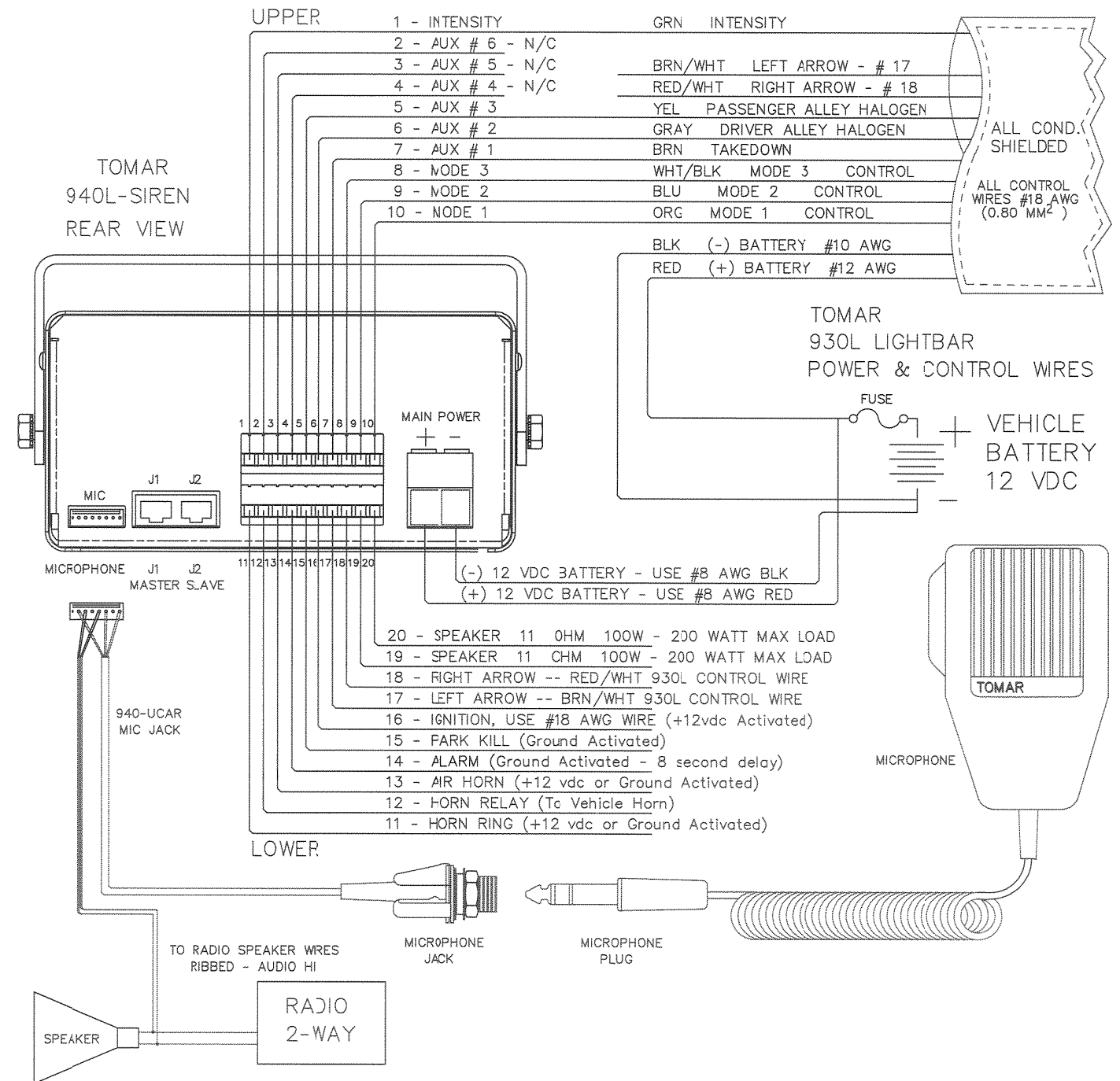


FIGURE 2