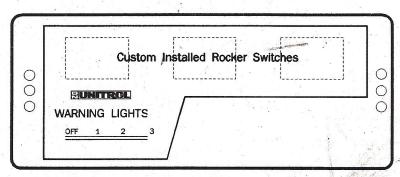
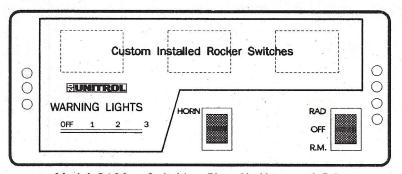
RUNITROL

INSTALLATION

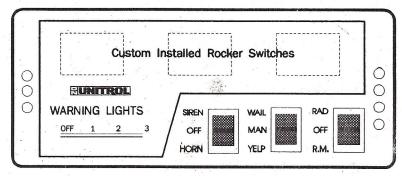
Custom 9000 Controllers



Model 9000: Switching Only. No Sound Functions.



Model 9100: Switching Plus Air Horn and P.A.



Model 9200: Switching Plus Full-Function Siren P.A.

PRELIMINARIES & INDEXES

1-800-854-3375

Call our toll-free number when problems arise. Assistance is available Monday through Friday, 8:00 AM to 4:30 PM *Pacific Coast Time*.

Please be ready to furnish your model number. It appears on the small label at upper right of the rear faceplate.

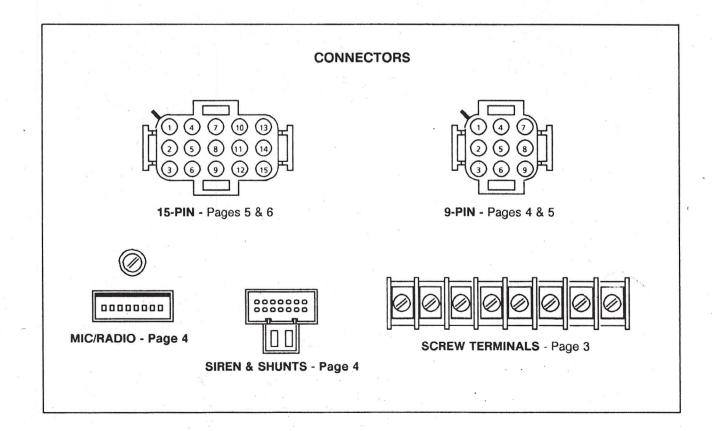
ROCKER ACCESSORY SWITCHES

Rocker switches are custom installed and wired according to the factory's understanding of your requirements.

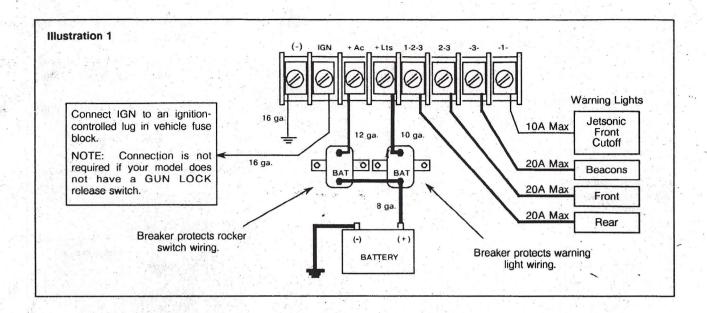
Examine switch functions before starting installation (see "OPERATION" sheet). Do not start installation if the model you received differs from what you ordered.

WIRE NAMES & CONNECTIONS

AIR HORN SW Pag	e 5
AUDIO IN and AUDIO OUT	6
BLX, BL, BUX, BUL	5
CAR HORN	5
GUN LOCK	5
HDLT FLSHR	5
HORN RING	5
NEUT, SW	5
ON1 [‡] , ON2 +, ON3 + & ON4 +, ON5 + & ON6 +	
ON1- & ON2	
PUSH1 & PUSH2	
RADIO POWER	
STROBE DIM	4
TRUNK	6



WARNING LIGHT & SIREN CONNECTIONS



SCREW TERMINAL CONNECTIONS

Use Wire Sizes Recommended In Illustration 1

(-): Ground negative input. If used for lightbar ground, use 10 ga, wire and connect direct to battery (-) post.

IGN: Supplies ignition input for GUN LOCK release switch.

- (+) Ac: Supplies Positive (+12V) input for rocker accessory switches. Use in-line breaker. Add drain of all floodlights or accessories that will operate at one time. Use breaker that equals or slightly exceeds total.
- (+) Lts: Supplies Positive (+12V) input for slide-bar switch. Use 10 ga. wire and in-line breaker. Add all of warning lights that operate in slide-bar position 3. Use breaker that equals or slightly exceeds total.
- **1-2-3, 2-3, -3- & -1-**: Terminals supply Positive (+) voltage for warning lights. Numbers indicate slide-bar positions that supply power.

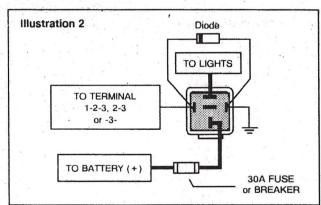
TYPICAL WARNING LIGHT CONNECTIONS

- 1-2-3 Rear or secondary lights.
- 2-3 Front or primary lights.
- -3- Rotary beacons or additional lights.
- -1- Front flasher cutoff (for Federal Jetsonic lightbar).

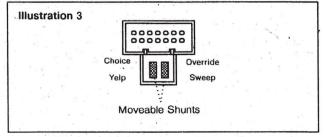
WARNING: Do not exceed 20 ampere load at any light control terminal. Install relay for higher loads. See illustration 2 which shows bottom view of a commonly available Bosch or Potter Brumfield 30A type.

The diode shown across relay control terminals (1N4009) is required to prevent damage to electronic

components from backward spikes. Overload relays purchased from Unitrol (Part #K5) are supplied with the diode attached.



SIREN/P.A. CONNECTOR



9100 and 9200 Models: Connector accepts one end of #CA90 cable. Other end plugs into Model 90 Siren/P.A. Amplifier. Refer to amplifier Installation Manual for power and speaker connections, and sound settings.

SHUNTS: Shunts change basic siren functions as described on Page 4.

SIREN & MIC/RADIO CONNECTORS

SHUNTS - Continued

Sweep or **Override Shunt**: Factory-set for Sweep^R operation during WAIL and YELP.

Pulling shunt off and moving it a step upward makes siren change to a Second Sound instead of Sweep. The Second Sound operates for 5-seconds after which the siren automatically returns to normal operation.

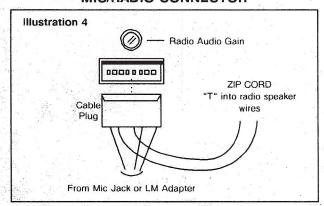
The Second Sound of Wail is YELP. The Second Sound of Yelp is FUTURA (fast Yelp).

Yelp or Choice Shunt: Factory-set so siren will Yelp in YELP switch setting.—Pulling shunt off and moving it a step upward will make the siren produce one of the following choices instead of Yelp:

Wail Hi-Lo (Two-Tone or Ultra Hi-Lo) Hetro^R (fast Hi-Lo) Futura (fast Yelp).

Sounds listed above are selected with "CHOICE" switches inside the Omega 90 Amplifier. Full details appear in the Omega 90 Installation Manual. Phone Unitrol for quick-set information.

MIC/RADIO CONNECTOR



Supplies connections for a separate or radio microphone and for Radio Rebroadcast.

FOR SEPARATE MICROPHONE: Install remote mic jack in 3/8" diameter hole. <u>Securely</u> connect Black jack wire to vehicle chassis (-). Fully insert microphone plug into jack. Insert cable plug into Mic/Radio connector.

FOR RADIO MICROPHONE: Mount Series LM Adapter where wanted. Plug radio microphone into Adapter jack. Plug one Adapter cable into radio's microphone jack. Plug other cable into 8-pin connector.

FOR RADIO REBROADCAST: Locate two wires running between the radio and radio speaker. "T" into each wire with small (18 ga.) wire. Connect other end of wires to zip cord coming from 8-pin plug.

9-PIN CONNECTOR

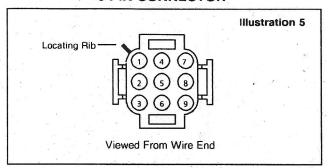
Note: Some LM adapters supply radio audio from the mic connector. Zip cord will not be needed or installed.

GAIN CONTROL ADJUSTMENT: Loudness of incoming radio calls over the outside speaker is regulated with the radio's volume control.

The Gain Control is set for "typical" radio volume control settings. It can be rotated counter clockwise (quieter) or clockwise (louder) to compensate for lower/higher radio volume control settings.

Refer to Omega 90 Installation Manual for complete details.

9-PIN CONNECTOR



Your Model Will Not Have All Wires & Functions Listed Below

Pin 1 - STROBE DIM

Wire can emit Ground or Positive. Control switch can be momentary or maintained depending on information supplied to Unitrol prior to manufacture.

CONNECTION: Connect STROBE DIM to strobe dim control circuit using 18 ga. wire.

Pin 2 - RADIO POWER

Wire and related control switch supplies combination of ignition/battery power for radio. Radio is normally ignition-controlled to prevent excessive battery drain.

The opposite switch position operates the radio direct-from-battery so calls can be transmitted and received without keys.

CONNECTIONS: Locate +12V control sections of transmit and receive sections. Tie both together and connect to RADIO POWER wire. Current Limit: 15 amperes.

Pins 3 & 4 - SP1 & SP2 or AUDIO IN & AUDIO OUT For SP1 & SP2 wires, see special instruction sheet enclosed. For AUDIO IN & AUDIO OUT wires, see back page item marked "MODEL 9000 ONLY".

Continued On Page 5

9-PIN CONNECTOR - Continued

Pin 5 - NEUT SW

Supplies "Siren Kill" (siren stops) when vehicle is shifted to Park or Neutral.

CONNECTION: Locate the one wire from the vehicle neutral switch that runs to the vehicle computer. Wire exhibits Positive (+) voltage when car is in a drive gear, Negative (-) voltage when car is in Neutral or Park. T-connect NEUT SW wire into neutral switch wire using 18 ga. wire.

Pin 6 - HDLT FLSHR

Supplies + 12V to a headlight flasher or warning light in slide-bar Positions 2 and 3. Power stops when vehicle is shifted to Park or Neutral gear (NEUT SW wire must be connected as described above).

CONNECTION: Connect to (+) 12V control terminal or control wire of headlight flasher. **Current Limit: 15A**. If load exceeds 15A, install relay (see Illustration 2).

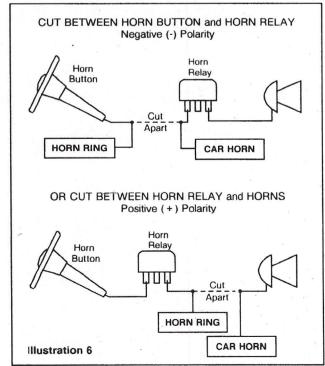
Pin 7 - AIR HORN SW

Wire operates the Omega air horn from an external momentary switch (not supplied).

CONNECTION: Install pushbutton switch, Connect one switch terminal to ground (-). Connect other switch terminal to AIR HORN SW wire. Use 18 ga. wire.

Pins 8 & 9 - HORN RING & CAR HORN

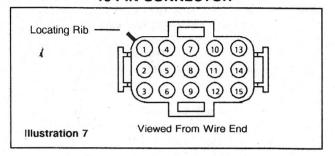
Wires supply horn ring (horn button) control of the siren. Transfer occurs in slide-bar Position 3. Horn circuit can



15-PIN CONNECTOR

be cut apart between the horn ring and horn relay or between the horn relay and horn as shown in Illustration 6. Compensation for (+) or (-) polarity is automatic.

15-PIN CONNECTOR

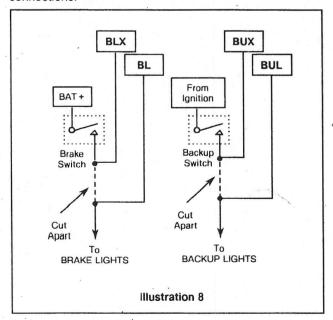


Your Model Will Not Have All Wires & Functions Listed Below

See "Operation" sheet for switch locations. Functions described below are listed in alphabetical sequence.

Pins 1, 2, 3 & 4 - BLACKOUT (BLX, BL, BUX & BUL) Wires provide for brake and backup light cutoff (Blackout). BL wires are for brake lights, BU wires are for backup lights.

Connect as shown in Illustration 8 below. Call Unitrol for updated information on Ford Crown Victoria brake light connections.



Pin 5 - GUN LOCK

Connect to electric gun lock solenoid using 18 ga. wire. Switch is functional only when vehicle ignition is on. See Page 6 for Unitrol Gun Lock Timer connections.

UNITROL

15-PIN CONNECTOR - Continued

UNITROL GUN LOCK TIMER CONNECTIONS

RED: To screw terminal marked (+) Acc BLACK: To screw terminal marked (-) WHITE: T-connect into GUN LOCK wire

Pin 6 - TRUNK

Connect to trunk release solenoid. Control switch is wired from battery.

Pins 7 through 12 - **ON1** + thru **ON6** + Wires supply power for takedown and alley lights, signs and other accessories. Current Limit: 15A per wire.

Pins 11 & 12 Alternates - ON1- & ON2-ON1- and ON2- supply ground for accessories requiring ground control instead of Positive (+) voltage.

Pins 13 & 14 - **PUSH1**, **PUSH2**Connect to lock/unlock or raise/lower solenoids.

15 - **SP3**: Special function. See separate instruction sheet.

Model 9000 Only 9-Pin Connector

Pins 3 & 4 - AUDIO IN & AUDIO OUT

Wires supply radio audio to a separate outside speaker (not a siren speaker).

CONNECTIONS:

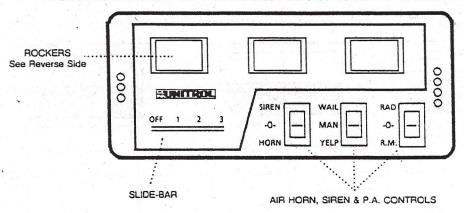
- 1: Install outside speaker where wanted.
- 2: Locate the two wires that run between the radio and radio speaker. T-connect an 18 ga. wire into each radio speaker wire.
- 3: Connect one (either one) of the two T-connected wires to one terminal of the outside speaker (either terminal).
- 4: Connect AUDIO OUT to remaining speaker terminal.
- 5: Connect AUDIO IN to remaining T-connected wire.

OPERATION

WARNING LIGHT, SIREN & P.A. CONTROLS

Omega Custom 9000 Series Model Number:

MODEL 9200 ILLUSTRATED. MODELS 9000 AND 9100 DO NOT HAVE SIREN SWITCHES.



WARNING LIGHTS

Each slide-bar position turns on progressively more warning lights. Position 3 turns on maximum lights and activates the siren (9200 Models only). Left-side indicator lights display slide-bar positions.

SIREN

MAN: Siren operates manually by pressing and releasing SIREN switch. Quick tap gives short burst.

WAIL: Siren operates in Wail. SIREN switch setting operates Sweep^R.

YELP: Siren operates in Yelp. SIREN switch setting operates Sweep^R.

(SWEEP - Siren changes multiple sounds automatically. Started and stopped by pressing SIREN switch).

AIR HORN

Press HORN setting. Functional at all times.

PUBLIC ADDRESS

Separate Microphone: Press microphone Push-To-Talk button and talk No other switching is required.

Radio Microphone: First press R.M. setting of RAD/R.M switch. Then press microphone Push-To-Talk button. Red indicator light shows when microphone cannot transmit radio calls.

OUTSIDE RADIO

Press RAD setting. Regulate volume of outside speaker with radio's Volume Control.

FLASHER KILL

Headlight flasher or warning light stops operating when vehicle is shifted to Park or Neutral gear.

POSSIBLE OTHER FUNCTIONS

Items below involve optional-use connections or adjustments. Boxed items involve additional equipment.

HORN RING SIREN CONTROL: Vehicle horn ring (horn button) performs same functions as SIREN switch:

SECOND SOUND: SIREN switch or horn ring operates Second Sound for 5-seconds instead of Sweep^R.

CHOICE SOUND: YELP siren setting operates Hi-Lo, Hetro or Futura instead of Yelp.

SIREN KILL: Siren stops (resets to MANUAL) when vehicle is shifted to Park or Neutral gear.

BURGLAR/HEAT ALARM: Siren-loud tone occurs 8seconds after unauthorized person opens door or trunk or when K9 carrier interior reaches 100°F.

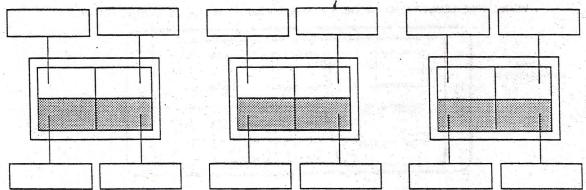
AIR HORN: An external foot or pushbutton switch operates the Omega Air Horn in addition to the HORN switch.

operational at all times.

ROCKER SWITCH OPERATION

Model Number:

■ Symbol: Indicates a momentary (Spring Return) Rocker



EXPLANATION OF ROCKER POSITIONS

Black Squares Indicate Functions In Your Model

BLACKOUT	□ RADIO
Stops normal operation of brake and backup lights.	RADIO position operates radio direct-from-battery. Radio is otherwise ignition-controlled.
☐ BYPAS\$	
All automatic siren sounds and functions can be operat-	
ed independent of the slide-bar switch.	☐ RAISE & LOWER
	Raises/lowers electric windows or elevated lights.
☐ GUN LOCK	***
Releases gun lock only when vehicle ignition is "on". If	RMSK
Unitrol Gun Lock Timer has been installed, release pow-	Radio microphone Push-To-Talk switch, when pressed,
er is sustained for 8-seconds after rocker is released	kills siren operation.
(permits one-hand gun removal).	
	☐ SPEAKER
LOCK & UNLOCK	Incoming radio calls are switched to a separate speaker
Locks/unlocks rear electric door locks.	outside the vehicle. Inside radio speaker operates at all
	times.
ON1+, ON2+, ON3+, ON4+, ON5+, ON6+	
Switches supply Positive (+) voltage for takedown and	☐ STROBE DIM
alley lights, map light, signs and other accessories.	Operates strobe dimming circuit in lightbar.
□ ON1-, ON2	☐ TRUNK
Switches supply Ground (-) to operate an accessory.	Releases trunk lid. Switch is functional at all times.
□PUSH1, PUSH2, PUSH3, PUSH4 Momentary rocker position supplies +12. Switch is	ection (