

# SERIES 3800 VEHICLE INTERCOM SYSTEM



PROVEN · ESTABLISHED · TRUSTED

A vehicle intercom system that provides a solution for enhanced safety,  
hearing protection, and clear communication.



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# SERIES 3800

## VEHICLE INTERCOM SYSTEM

Series 3800 Vehicle Intercom Systems are engineered to solve the problem of communicating in high noise environments, especially those associated with emergency operations during call response and at the scene. They enable personnel on the apparatus to communicate clearly, without interference from vehicle noise, including sirens. They have the option of connecting to mobile radios, allowing all personnel to listen to the radio and selected stations to transmit over the radio.

**Modular Design** - Rugged and serviceable. Reduces costly downtime on installation or module replacement. Very cost effective.

**Weather Tight** - All system components are designed for use in severe weather. All modules are manufactured using rugged, heavy gauge, polycarbonate (-80°F to +212°F) housings with integral mounting feet.

**Industry Standard** - In use worldwide by emergency service departments, the Series 3800 Vehicle Intercom System is an extremely versatile "workhorse" able to accommodate most vehicle and system design requirements.

**Versatile** - Can be installed on Fire Apparatus, Ambulances, Rescue Boats, Utility and Construction vehicles of all types. If it rolls, floats or flies... or not, David Clark Company has a solution to help you cope with high noise environments.



### U3800 MASTER STATION

The "heart" of the system. One each is required per system. The U3800 will accommodate two headsets and should be placed where radio transmit function is not required. Adjusts automatically for 12 or 24 VDC power source. Contains system on/off, master volume control, two headset jacks with listen level controls, power input connector and two remote output connectors. Draws less than 600 milliampere current. 8-1/4" L x 5-3/4" W x 4-3/4" D.



### U3801 REMOTE HEADSET STATION

This simple headset station is used to expand the system, usually at the end of a series of headset stations. There are no output connectors to connect additional modules. It has one headset jack and a listen level control. Use where radio transmit is not required. 3-1/4" L x 4-3/4" W x 3" D.



### U3802 REMOTE HEADSET STATION

Expands the system beyond the master station. Contains one headset jack and listen level control, system input connector and two system output connectors. Provides a path for "daisy-chaining" to additional headset stations. 5-3/8" L x 4-1/4" W x 3" D.



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### U3803 REMOTE JUNCTION MODULE

A passive module containing four identically wired connectors for expanding the number of headset stations utilized in the system. A U3803 may be added to the system wherever C38-XX Jumper Cords are to be interconnected.

5-1/4" L x 5-1/4" W x 2-3/8" D.



### U3805 RADIO CORD JUNCTION MODULE

Recommended for systems utilizing two or more radio interface headset stations. It is a passive module that permits multiple Series 3800 Radio Interface Modules (a maximum of four) to be connected to one radio. The U3805 provides one output to a mobile radio, one primary input from a Series 3800 Radio Interface Module, and three secondary inputs from Series 3800 Radio Interface Modules.

6-3/4" L x 5-1/4" W x 2-3/8" D.

Note: With modifications, the U3805 also accepts input from model C3019 Utility Radio Adapters.



### U3806 DUAL HEADSET INTERCOM STATION

Expands the system beyond the master station. Contains two headset jacks, each with listen level control, system input connector and two system output connectors. Provides a path for "daisy-chaining" to additional headset stations.

6-3/4" L x 4-1/4" W x 3-1/16" D.



### U3810 RADIO INTERFACE MODULE

Adds the transmit and receive functions of a mobile radio to the David Clark Series 3800 Intercom System. Use of this module is recommended for two- or three-person systems only. The U3810 has one radio push-to-talk (PTT) switch, one system input connection, one radio input connection and two connectors for optional remote PTT.

5-1/4" L x 5-1/4" W x 2-3/4" D.

Note: All intercom traffic is transmitted when PTT is engaged.



### U3811 RADIO INTERFACE MODULE

Provides *isolated* radio transmit function for one headset and radio receive function for all users. Contains one radio PTT switch, one headset jack and listen level control, one system input connection and one radio input connection.

5-1/4" L x 3-5/8" W x 3-1/16" D.



### U3812 DUAL RADIO INTERFACE MODULE

Designed to connect two separate radios to a David Clark Series U3800 Intercom System. The priority reception feature enables the user to select which radio's receive audio will have precedence by simply connecting the priority radio to the priority radio input connector. Contains one C38-XX system connector, two connectors for radio input (C3821), and two connectors for optional remote PTTs.

8-1/2" L x 5-3/4" W x 4-1/8" D.

Note: All intercom traffic is transmitted when PTT is engaged.

Note: All Radio Interface Headset Station Modules provide radio transmit isolation with the exception of the U3810 and the U3812.



**U3813 RADIO INTERFACE MODULE (use with H7042 Headset only)**

Is designed to combine the transmit/receive functions of a mobile radio with the David Clark Series 3800 Intercom System. The U3813 contains one headset jack, one listen level control, one PTT switch, one radio input connector (C3821), two intercom connectors (C38-XX) and a remote PTT connector that allows the use of an optional Footswitch (40071G-04) or other remote PTTs.

7" L x 4-1/3" W x 3-1/8" D.

*Note: The U3813 Radio Interface Module and the U3817 Remote Headset Station are the only Series 3800 Modules that accept the H7042 Headset. The H7042 Headset is designed for use with certain older portable radios and requires a David Clark Company 7000 Series Adapter specific to the portable radio brand and model.*



**U3814 MULTI RADIO INTERFACE MODULE**

Is designed to connect up to four radios to a David Clark Series 3800 Intercom System. Contains one headset jack with listen level control, one radio volume control, one four-position radio select switch, one radio PTT, four connectors for radio input (C3821), two system connectors (C38-XX), one connector for speaker cut-out option, and one connector for optional C3023 Belt Station, Footswitch (40071G-04) or other remote PTT. A red LED indicator over the PTT switch will light, indicating transmission over the selected radio.

Provides isolated radio transmit function for one headset and radio receive function for all users on the system.

8-1/2" L x 5-1/4" W x 3-1/8" D.



**U3815 RADIO INTERFACE MODULE**

Combines the transmit/receive functions of a mobile radio with the David Clark Series 3800 Intercom System. This module has one headset jack with listen level control, one PTT switch, one radio input connector (C3821), two intercom connectors (C38-XX) and one connector allowing use of an optional Footswitch (40071G-04) or other remote PTT.

7" L x 4-1/3" W x 3-1/8" D.



**U3815A RADIO INTERFACE MODULE**

Same features as U3815, but remote PTT connection will accept 40071G-04 Footswitch or C3023 Belt Station. 7" L x 4-1/3" W x 3-1/8" D.



**U3816 DUAL RADIO INTERFACE HEADSET STATION**

The standard choice when connecting the 3800 Intercom System to two radios. Provides two connectors to mobile radios (C3821), two intercom system connections (C38-XX), one headset jack with listen level control, two radio receive level controls, two PTT switches and two remote PTT connections (corresponding to each of the mobile radios). The remote PTT connectors will accept C3023 Belt Stations or Footswitches (40071G-04).

8-1/2" L x 5-1/4" W x 3-1/8" D.



**U3817 REMOTE HEADSET STATION (use with H7042 Headset only)**

Expands the system beyond the master station. Contains one headset jack and listen level control, system input connector and two system output connectors. Provides a path for "daisy-chaining" to additional headset stations.

5-3/8" L x 4-1/4" W x 3" D.

*Note: The U3813 Radio Interface Module and the U3817 Remote Headset Station are the only Series 3800 Modules that accept the H7042 Headset. The H7042 Headset is designed for use with certain older portable radios and requires a David Clark Company 7000 Series Adapter specific to the portable radio brand and model.*

# CORDS/ADAPTERS/ACCESSORIES



## C3820 POWER CORD

Connects U3800 to power source, 20-foot, two-conductor shielded cable with two-pin MS connector. Power end has stripped and tinned conductors. Fuse Kit included.



## C3821 RADIO CORD

Connects radios to radio interface module. 21-foot, six-conductor shielded cable with six-pin MS connector. Radio end has stripped and tinned conductors.



## C38-12, -25, -50, -75, -100 JUMPER CORDS

Connects modules and U3800. Four-conductor shielded cable with four-pin MS connectors on each end. (Number after dash indicates length in feet.)



## C3019 UTILITY RADIO ADAPTER

Provides interface between any David Clark Series 3000 Noise-attenuating Headset and most mobile radios. Ideal for radio interface at the pump panel. Has radio PTT switch and listen level control. A 15-foot (extended) coil cord allows increased mobility.



## 18352G-16 CONNECTOR KIT

Accepts C3019 Utility Radio Adapter. Use as panel or bulkhead mount. A Protector Cap (13238P-01) is recommended. Six-conductor cable is available. (Order per foot - P/N 09271P-13.)



## C3023 BELT STATION

Provides intercom and radio transmit capability. Has radio PTT switch and listen level control. May be used with U3814, U3815A, & U3816. A 15-foot (extended) coil cord allows increased mobility.



## 40071G-04 FOOTSWITCH

May be used with U3813, U3814, U3815, U3815A & U3816. (Option for Remote Push-to-Talk with Mobile Radios)



## 40107G-01 RADIO INTERFACE ADAPTER

Use if adapting to a Motorola Spectra, Syntor X9000, or Maratrac w/A7 heads. Mates with five-pin connector 09227P-81.



## 40666G-01 HEADSET ADAPTER

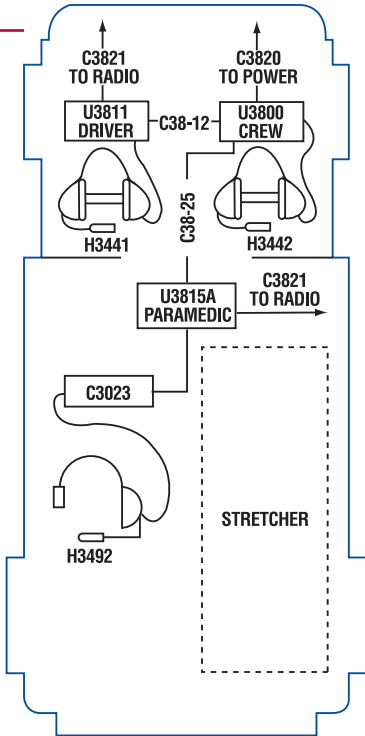
Allows 6000 and 4200 Series Headsets to be used with 3800 System Headset Stations. (Exception: do not use with U3813 or U3817).

# SERIES 3800 VEHICLE INTERCOM SYSTEM

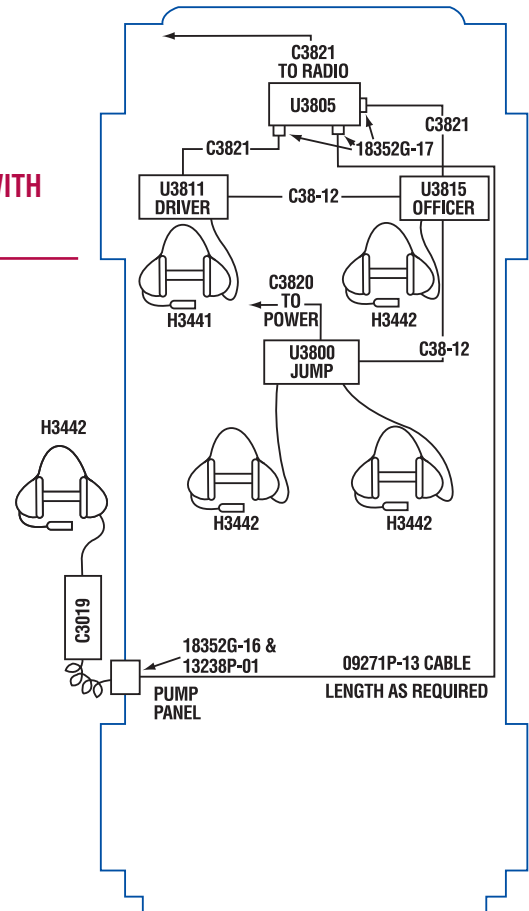
## REPRESENTATIVE APPLICATIONS

Call us at 1-800-298-6235 for assistance in configuring a system for your specific application.

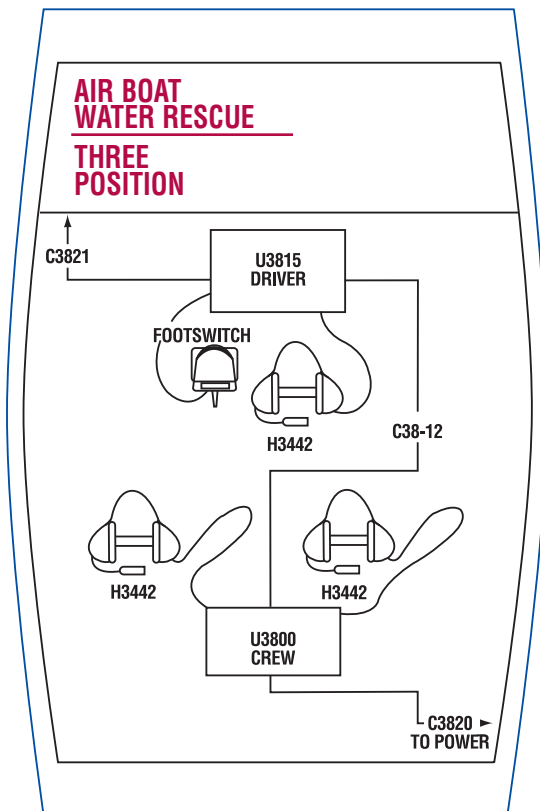
### AMBULANCE THREE POSITION



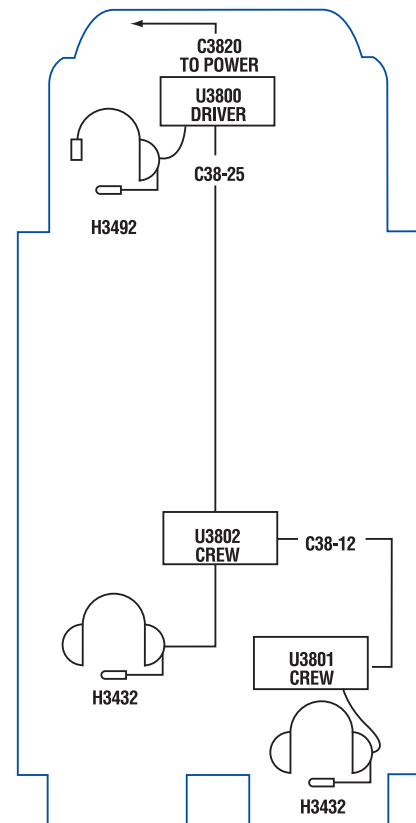
### ENGINE WITH PUMP PANEL FIVE POSITION



### AIR BOAT WATER RESCUE THREE POSITION



### PAINT STRIPING VEHICLE THREE POSITION



# SERIES 3800 VEHICLE INTERCOM SYSTEM PRODUCT MATRIX



|  | MODULES   | HEADSET JACKS | LISTEN LEVEL   | MODULE CONNECTORS   | SWITCHES                               | NOTES FOR USE  |
|--|---|---------------|--|---|--|--|
|  | <b>U3800</b><br>MASTER STATION<br>18745G-01                       | 2             | System master volume control, 2 individual headset volume controls | Connector for power cord (C3820)<br>2 connectors for C38-XX jumper cords  | system on/off                          | One each required for system. Place where radio transmit function is not required. Will accommodate two headsets.                                      |
|  | <b>U3801</b><br>HEADSET INTERCOM STATION<br>18746G-01             | 1             | 1 headset volume control   | 1 connector for C38-XX jumper cord  |  | Intercom position only. Use at end of intercom chain. Use where radio transmit function is not required.   |
|  | <b>U3802</b><br>HEADSET INTERCOM STATION<br>18776G-01             | 1             | 1 headset volume control   | 3 connectors for C38-XX jumper cords  |  | Intercom position only. Connections provided for "daisy-chaining" to additional headset stations. Use where radio transmit function is not required.   |
|  | <b>U3803</b><br>JUNCTION MODULE<br>18843G-01                      |               |  | Pass through<br>4 connectors for C38-XX jumper cords  |  | Passive module with 4 input/outputs for connecting jumper cords to additional headset stations.  |
|  | <b>U3805</b> RADIO CORD<br>JUNCTION MODULE<br>40135G-01           |               |  | 1 connector for radio input (C3821) • 1 connector for primary input from Series 3800 radio interface module • 3 connectors for secondary input from Series 3800 radio interface modules or C3019 Utility Radio Adapter (slight modification required) |  | Recommended for cleaner installation of systems containing 2 or more radio interface headset stations.   |
|  | <b>U3806</b> DUAL HEADSET<br>INTERCOM STATION<br>40578G-01        | 2             | 2 individual headset volume controls                               | 3 connectors for C38-XX jumper cords  |  | Same as U3802, but accommodates 2 headsets.  |
|  | <b>U3810</b> RADIO INTERFACE<br>MODULE/PTT<br>18884G-01           |               |  | 1 connector for radio input (C3821)<br>1 connector for C38-XX jumper cord<br>2 connectors for optional remote PTT   | 1 radio PTT                            | For applications where PTT brings all intercom communications over radio. Usually utilized in small (2-3 person) systems.*                             |
|  | <b>U3811</b> RADIO INTERFACE<br>MODULE<br>18932G-01               | 1             | 1 headset volume control   | 1 connector for radio input (C3821)<br>1 connector for C38-XX jumper cord   | 1 radio PTT                            | For location requiring radio transmit function that does not require daisy-chaining to additional headset station.**                                   |
|  | <b>U3812</b> DUAL RADIO<br>INTERFACE MODULE<br>18938G-01          |               |  | 1 connector for C38-XX jumper cord<br>2 connectors for input to each radio (C3821)<br>2 connectors for optional remote PTT  | 2 radio PTT<br>1 primary override      | For systems requiring interface to 2 radios. Select override feature allows one radio's receive audio to override the 2nd radio's receive audio.*      |
|  | <b>U3814</b> MULTI RADIO<br>INTERFACE MODULE<br>40324G-01         | 1             | 1 radio volume<br>1 headset volume control                         | 2 connectors for C38-XX jumper cords • 4 connectors for input to each radio (C3821)<br>1 connector for optional belt station, footswitch or other remote PTT<br>1 connector for speaker cut-out option  | 1 radio PTT<br>1 radio selector switch | Use U3814 for location requiring transmit function for up to 4 radios.**   |
|  | <b>U3815</b><br>RADIO INTERFACE MODULE<br>40136G-01               | 1             | 1 headset volume control   | 2 connectors for C38-XX jumper cords<br>1 connector for radio input (C3821)<br>1 connector for optional 40071G-04 footswitch or remote PTT  | 1 radio PTT                            | Same as U3811 but provides additional connector for daisy-chaining to additional headset stations. Also allows use of 40071G-04 footswitch.**          |
|  | <b>U3815A</b><br>RADIO INTERFACE MODULE<br>40136G-02              | 1             | 1 headset volume control   | 2 connectors for C38-XX jumper cords<br>1 connector for radio input (C3821)<br>1 connector for optional C3023 belt station or 40071G-04 belt station or remote PTT  | 1 radio PTT                            | Same as U3815 but allows use of C3023 PTT belt station. For locations requiring user's mobility; C3023 belt station has 15' coil cord and radio PTT.** |
|  | <b>U3816</b> DUAL RADIO<br>INTERFACE HEADSET STATION<br>40535G-01 | 1             | 2 radio volume<br>1 headset volume control                         | 2 connectors for C38-XX jumper cords • 2 connectors for radio input (C3821)<br>2 connectors for optional C3023 belt station or 40071G-04 footswitch or remote PTT (1 for each radio)  | 2 radio PTT                            | Standard choice for system interface to 2 radios. Only headset plugged into headset station will be heard over radio when PTT is engaged.              |
|  | <b>U3813</b><br>RADIO INTERFACE MODULE<br>40108G-01               | 1             | 1 headset volume control   | 2 connectors for C38-XX jumper cords<br>1 connector for radio input (C3821)<br>1 connector for optional 40071G-04 footswitch, or other remote PTT   | 1 radio PTT                            | Compatible with headsets used for certain portable radios. Low impedance. (Use with 7000 Series headsets only).**<br><i>See note on page four.</i>     |
|  | <b>U3817</b><br>HEADSET INTERCOM STATION<br>40317G-01             | 1             | 1 headset volume control   | 3 connectors for C38-XX jumper cords  |  | Same as U3802 but must be used only with 7000 Series headsets. Use where radio transmit function is not required.<br><i>See note on page four.</i>     |

\*Consult factory before using in system.

\*\*Only headset plugged into headset station will be heard over radio when PTT is engaged.

# SERIES 3400 HEADSETS

Over-the-head-style



## MODEL H3432 HEADSET/MICROPHONE

Over-the-Head Style.

- Microphone: Noise-cancelling M-7A Electret (nominal 50 ohm).
- Boom: Hybrid boom assembly for precise microphone positioning.
- Rotates for left or right side placement.
- Earphone: Lightweight dynamic (nominal 300 ohm) wired in series.
- Cord: Shielded 4-conductor, 5' Coil.
- Plug: PJ-051.
- Microphone on/off button.
- NRR: 23dB.

Over-the-head-style



## MODEL H3492 HEADSET/MICROPHONE

Single Ear.

- Microphone: Noise-cancelling M-7A Electret (nominal 50 ohm).
- Boom: Hybrid boom assembly for precise microphone positioning.
- Rotates for left or right side placement.
- Earphone: Lightweight dynamic (nominal 300 ohm) wired in series.
- Cord: Shielded 4-conductor, 5' Coil.
- Plug: PJ-051.
- Microphone on/off button.

Behind-the-head-style



## MODEL H3442 HEADSET/MICROPHONE

Designed to be worn under helmets or safety caps.

- Microphone: Noise-cancelling M-7A Electret (nominal 50 ohm).
- Boom: Hybrid boom assembly for precise microphone positioning.
- Rotates for left or right side placement.
- Earphone: Lightweight dynamic (nominal 300 ohm) wired in series.
- Cord: Shielded 4-conductor, 5' Coil.
- Plug: PJ-051.
- Microphone on/off button.
- NRR: 23dB.

Behind-the-head-style



## MODEL H3441 HEADSET/MICROPHONE

Single receiver, slotted dome. Designed to be worn under helmets or safety caps.

- Microphone: Noise-cancelling M-7A Electret (nominal 50 ohm).
- Boom: Hybrid boom assembly for precise microphone positioning.
- Rotates for left or right side placement.
- Earphone: Lightweight dynamic (nominal 300 ohm) wired in series.
- Cord: Shielded 4-conductor, 5' Coil.
- Plug: PJ-051.
- Microphone on/off button.

# SERIES 6000 HEADSET

Behind-the-head-style



Other Styles Available

## MODEL H6040 HEADSET/MICROPHONE

- Microphone: Noise-cancelling M-77 Electret.
- Boom: Full flex for precise microphone positioning. Can be positioned for left or right side microphone placement.
- Earphone: Lightweight dynamic (nominal 275 ohm) wired in parallel.
- Cord: Shielded 4-conductor, 36" straight.
- Plug: U-174/U.

*NOTE: If a Series 6000 Headset is to be integrated into the 3800 System, an adapter, P/N 40666G-01, must be used. Not to be used with the U3817 Remote Headset Station or the U3813 Radio Interface Module.*

# SERIES 7000 HEADSET

Behind-the-head-style



Other Styles Available

## MODEL H7042 HEADSET/MICROPHONE

Designed to be worn under helmets or safety caps.

- Microphone: Dynamic Noise-cancelling M101/DC (nominal 7 ohm).
- Boom: Has three different adjustment points for perfect microphone placement. Can be rotated to position microphone on left or right side.
- Earphone: Lightweight dynamic (nominal 19 ohm) wired in parallel.
- Cord: Shielded 4-conductor, 5' Coil.
- Plug: U-174/U

*NOTE: If a headset compatible with portable radios (Series 7000, low impedance) is to be integrated into the 3800 System, the U3817 Remote Headset Station and the U3813 Radio Interface Module are the only Series 3800 modules that accept LOW IMPEDANCE HEADSETS.*

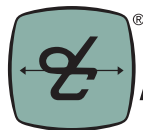
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**MARINE INTERCOM SYSTEMS**



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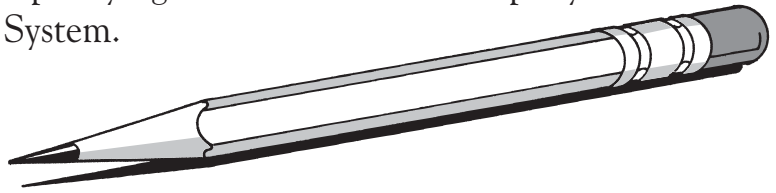
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# SERIES 3800 Vehicle Intercom System Specification Form

Use this drawing as a guide for specifying the David Clark Company Series 3800 Vehicle Intercom System.



The following questions need to be answered:

- Which positions to have intercom and radio *receive*?

(Indicate with (R) placement on the vehicle layout)

- Which positions to have intercom radio *transmit and receive*?

(Indicate with (T/R) placement on the vehicle layout)

- How many mobile radios?

(Indicate brand & model) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Please include:**

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Firm: \_\_\_\_\_

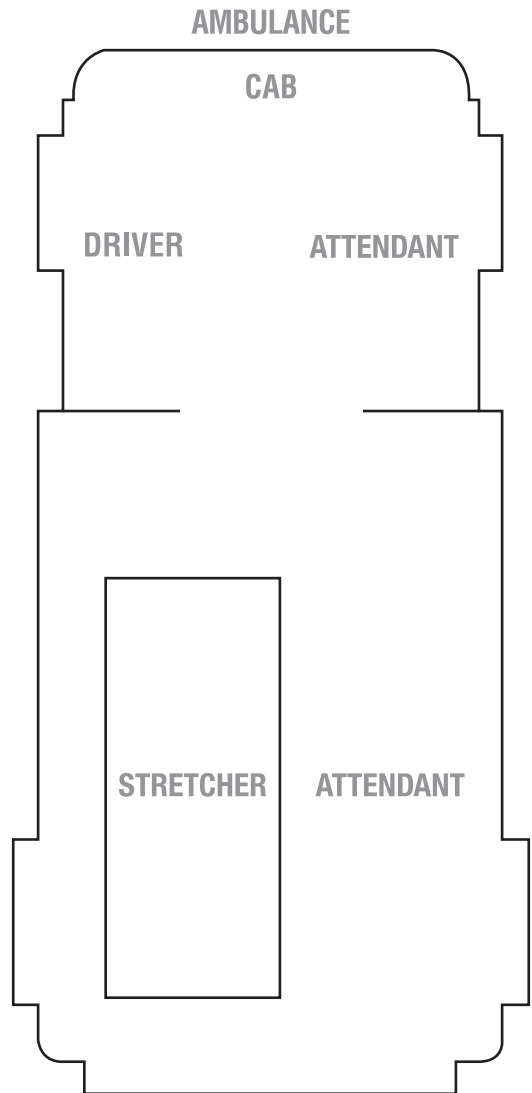
Address: \_\_\_\_\_

City \_\_\_\_\_ State: \_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-Mail: \_\_\_\_\_

**Please return to: FAX: 508-753-5827**

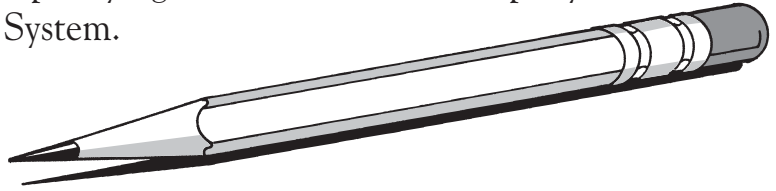


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# SERIES 3800 Vehicle Intercom System Specification Form

Use this drawing as a guide for specifying the David Clark Company Series 3800 Vehicle Intercom System.



The following questions need to be answered:

- Which positions to have intercom radio *transmit* and *receive*?  
(Indicate with (T/R) placement on the vehicle layout) i.e. Driver, Officer
- Which positions to have intercom and radio *receive*?  
(Indicate with (I/R) placement on the vehicle layout) i.e. Jump Seats
- Which positions to have radio *transmit* and *receive*-no intercom?  
(Indicate with (R) placement on the vehicle layout) i.e. Pump Panel

• How many mobile radios?  
(Indicate brand & model) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Please include:**

Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Firm: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City \_\_\_\_\_ State: \_\_\_\_ Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

**Please return to: FAX: 508-753-5827**



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