

**MODEL 306FR**  
**INSTRUCTION SHEET FOR FEDERAL SIGNAL FIELD CHIP RECORDER**  
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Address all communications and shipments to:



**FEDERAL SIGNAL CORPORATION**

## **INSTRUCTION SHEET FOR FEDERAL SIGNAL FIELD CHIP RECORDER MODEL 306FR**

### **A. GENERAL.**

The Model 306FR is designed to allow end users to record and playback their own messages. One IC can accommodate 6 messages of 20 second length each. Position 1 has the highest priority and position 6 has the lowest priority. The message IC can be re-recorded 100 times. The board will automatically stop recording after 20 seconds. In playback mode the message will repeat until halted.

The “Status” red LED indicates that the PCB is operating properly. “Ready” green LED indicates the PCB is ready to record or playback a message or tone. The “Recording/Playback” yellow LED indicates that the PCB is recording or playing back a message or tone.

### **B. UNPACKING.**

The package contains the 306FR PCB, speaker assembly, instruction sheet and 9 Volt battery.

After unpacking the equipment, examine it for damage that may have occurred in transit. If the equipment has been damaged, do not attempt to operate it. File a claim immediately with the carrier stating the extent of the damage. Carefully check all envelopes, shipping labels and tags before removing or destroying them. Retain the ant-static bag for storage.

#### **NOTE**

The Storage Chip and the CommCenter’s circuitry can be destroyed or damaged by static discharge. Observe anti-static procedures when installing or servicing a CommCenter.

To remove the storage chip (IC7) from the 306MX, gently pry the IC out of its socket. To install the storage chip, insert it into the desired IC socket on the printed circuit board. Ensure that the notch on the edge of the new storage chip is facing in the same direction as the old one and that all IC pins are properly inserted in the socket—not bent under.

#### **CAUTION**

Test the CommCenter after any maintenance is performed.

### **C. RECORD MESSAGES.**

Refer to figure 1 for board layout.

To operate the board, plug the speaker into J1; this will allow you to hear the results. Insert a 9V alkaline battery into the battery holder. With the power OFF, lift the handle on the IC4 socket; insert the IC (128413) into the socket lower the handle.

Power ON the board with SW1, located in the lower left corner of the board. Up is the ON position. The red D3 “Status” LED will illuminate.

1. Press the SW6 “Reset” button to begin.
2. Set the SW3 to “Record”.
3. Set the appropriate message location with SW2 “Message Selection”. Move the switch to the ON position to choose the memory location for the message. Location 1 will have the highest priority. The green “Ready” LED will illuminate.
4. Press SW4 “Ready” button. The green “Ready” LED will turn off and “Recording/Playback” LED will illuminate. The board is now recording from MIC1 so speak into the microphone normally. The board will record for 20 seconds. The yellow “Recording” LED will turn off and the green “Ready” LED will illuminate.
5. Return SW2 to all OFF. The green “Ready” LED will turn off.

6. To record another message repeat steps #2 - #5.
7. Turn OFF power.

#### **D. PLAYBACK MESSAGES.**

Refer to figure 1 for board layout.

Plug the speaker into J1; this will allow you to hear the results. Insert a 9V alkaline battery into the battery holder. With the power OFF, lift the handle on the IC3 socket; insert the IC (128413) into the socket and lower the handle.

Power ON the board with SW1, located in the lower left corner of the board. Up is the ON position. The red D3 "Status" LED will illuminate.

1. Press SW6 "Reset" button to begin.
2. Set SW3 to "Play".
3. Set appropriate message location with SW2 "Message Selection". Move switch to the ON position to choose memory location to playback. The green "Ready" LED will illuminate.
4. Press SW4 "Ready" button. The green "Ready" LED will turn off and the "Record\Playback" LED will illuminate. The board will now begin to playback the message from the desired location. The board will repeat the message until halted. To halt the message, place the "Message Selection" switch to the OFF position.
5. Return SW2 to all OFF. The green "Ready" LED will turn off.
6. To playback another message repeat steps #3 - #5.
7. Turn OFF power.

#### **E. SPECIFICATIONS.**

Operating Voltage Range	9VDC
Operating Current	80ma
Power	0.72 Watts
Operating Temperature	0°F to 70° F
Dimensions (HWL)	1.35" x 4.80" x 3.55"

#### **F. SERVICE.**

Federal Signal will service your equipment or provide technical assistance with any problems that cannot be handled locally.

Any units returned to Federal Signal for service, inspection, or repair must be accompanied by a Return Material Authorization. This R.M.A. can be obtained from the local distributor or manufacturer's representative.

At this time a brief explanation of the service requested, or the nature of the malfunction, should be provided.

Address all communications and shipments to:

Electrical Products  
 Service Department  
 Signal Division  
 Federal Signal Corporation  
 2645 Federal Signal Drive  
 University Park, IL 60466-3195

#### **G. REPLACEMENT PARTS/ACCESSORIES.**

Description	Part No.
PCB	K2001898
Message Chip	K128413

