SelecTone®
Wall Mounted Command Unit

Model 300SCW-1

The Federal Signal Model 300SCW-1 SelecTone® Command Unit generates up to four tones or voice communications through a SelecTone system.

Four tones, auxiliary, test and cancel are controlled via an illuminated keypad. Voice transmission is activated by keying the optional hand held microphone.

The Model 300SCW-1 is UL Listed and CSA Certified.

Choose four plug-in tone modules, including the UTM Universal Tone Module or the TM33 Custom Tone Module.

Public address can be accessed from the optional local microphone or via the remote microphone input. Public address has the highest priority, followed by tones 1-4, remote microphone and audio.

“Test” plays tones or voice messages through the monitor speaker only. “Cancel” interrupts any tone.

External dry contacts can be wired into the command unit for automatic remote operation of the signal system.

The Model 300SCW-1 SelecTone Command Unit is the basis for a simple, versatile general signaling system for weather warning, start and dismissal, general alarm, evacuation and paging.

Federal Signal’s SelecTone Model 300SCW-1 Command Unit allows up to four tones and public address capability to be prioritized and broadcast through a SelecTone system.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Sys. Standby Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>300SCW-1</td>
<td>24VDC*</td>
<td>0.50 amps</td>
<td>0.08 amps</td>
</tr>
<tr>
<td>300SCW-1</td>
<td>120VAC 50/60Hz</td>
<td>0.20 amps</td>
<td>0.03 amps</td>
</tr>
<tr>
<td>300SCW-1</td>
<td>240VAC 50/60Hz</td>
<td>0.10 amps</td>
<td>0.02 amps</td>
</tr>
</tbody>
</table>

*With emergency power input.
SELECTONE® COMMAND UNIT (300SCW-1)

**SPECIFICATIONS**

- **Tone Output Levels**
  - Unbalanced Signal Line: 10 Vrms (25 Ohm max.)
  - Balanced Signal Line: 25Vrms (40 Ohm max./15 watt)
- **Signal to Noise Ratio**
  - (≤1.5% THD) Chip Input 67dB
- **Signal Frequency Response**
  - 250Hz to 4.5kHz (typical)
- **Net Weight:** 13.4 lbs. 6.1 kg
- **Shipping Weight:** 15.0 lbs. 6.8 kg
- **Height:** 11.25" 285.8 mm
- **Width:** 16.23" 412.2 mm
- **Depth:** 4.06" 103.1 mm

**HOW TO ORDER**

- Specify model
- Specify up to four Tone Modules:
  - Universal Tone Module (UTM)
  - Custom Tone Module (TM33)
- Specify options:
  - Handheld Microphone (MNC-1)
  - Desktop Microphone (MSB-1)
- Please refer to Model Number Index 300SCW-1 beginning on page 379

**REPLACEMENT PARTS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC Board Assembly, Mother Board</td>
<td>K2001154E</td>
</tr>
<tr>
<td>PC Board Assembly, Switch Board</td>
<td>K2001147A</td>
</tr>
<tr>
<td>PC Board Assembly, Tone Card Connector</td>
<td>K2001164A</td>
</tr>
<tr>
<td>Connector, 17 Position</td>
<td>K140A332A-17</td>
</tr>
<tr>
<td>Connector, 16 Position</td>
<td>K140A332A-16</td>
</tr>
<tr>
<td>Fuse 250V, 1 Amp</td>
<td>K148A155A-01</td>
</tr>
<tr>
<td>Fuse 250V, ½ Amp</td>
<td>K148A155A</td>
</tr>
</tbody>
</table>

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Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
SelecTone®
Supervised Command Unit

Model 300SSC

Federal Signal's Model 300SSC Supervised SelecTone® Command Unit is the heart of a fully supervised plant and employee protection signaling system. A steel enclosure, locking door and a plexiglass window protect the hand-held microphone and local control switches from unauthorized access.

This visual and audible annunciator system alerts any alarm or trouble conditions. All initiating and signal lines, control circuitry and switches are supervised. Up to four audible warning signals, including voice can be broadcast in a SelecTone system.

Signals are prioritized. Local mic has highest priority, followed by tones 1-4 and auxiliary PA. Higher priority signals interrupt lower priority signals.

Two auxiliary relay circuits are programmable to control door locks, fire doors, fan circuits or other process control functions. Circuitry is provided to activate the local municipal box.

The annunciated control panel provides easy control and analysis of system conditions. Tone signals can be tested on a monitor speaker without sounding false alarms or activating peripheral equipment.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Sys. Standby Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>300SSC</td>
<td>24VDC*</td>
<td>1.24 amps</td>
<td>0.13 amps</td>
</tr>
<tr>
<td>300SSC</td>
<td>120VAC 50/60Hz</td>
<td>0.48 amps</td>
<td>0.13 amps</td>
</tr>
</tbody>
</table>

*With emergency power input.
HOW TO ORDER
- Specify model number
- Specify up to four Tone Modules: Universal Tone Module (UTM)
- Specify Connector Kit: Supervised Connector Kit (300CKS)
- Specify options: Remote reset (K8551030B)
- Please refer to Model Number Index 300SSC beginning on page 379

SPECIFICATIONS
Tone Output Levels
- Unbalanced Signal Line: 10 Vrms (25 Ohm max.)
- Balanced Signal Line: 25Vrms (40 Ohm max./15 watt)
Signal to Noise Ratio: (<1.5% THD) Chip Input 67dB
Signal Frequency Response: 250Hz to 4.5KHz (typical)
Net Weight: 43.0 lbs. 20 kg
Shipping Weight: 48.2 lbs. 22 kg
Height: 26.34" 669 mm
Width: 21.25" 540 mm
Depth: 4.44" 113 mm

REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC Board Assembly, Main</td>
<td>K200E904B</td>
</tr>
<tr>
<td>PC Board Assembly, Terminal</td>
<td>K200D903D</td>
</tr>
<tr>
<td>Transformer, Audio</td>
<td>K200A803B</td>
</tr>
<tr>
<td>Transformer, Power</td>
<td>K200A804B</td>
</tr>
<tr>
<td>Resistor, EOLR 2.7K</td>
<td>K200A770A</td>
</tr>
<tr>
<td>Resistor, EOLR 3.9K</td>
<td>K200A771A</td>
</tr>
<tr>
<td>Remote Reset</td>
<td>K8551030B</td>
</tr>
<tr>
<td>Microphone</td>
<td>K137B134A-01</td>
</tr>
</tbody>
</table>
**SelecTone® Activated Relay**

Model 300TAR

The Federal Signal Model 300TAR is activated by swept frequency tone signals from the SelecTone® Command Center. A relay switches power in order to control the operation of selected devices. The 300TAR can be used to activate such devices as emergency lights, lock and unlock doors and exhaust fans. Additional applications include the activation of other circuits such as automatic dialers, digital message centers or PLC inputs.

The tone activated relay is designed to detect emergency dedicated signals emitted by a SelecTone Command Center. Through a twin set of Form C contacts, each rated at 8 Amperes, the 300TAR can switch power to activate up to two devices, eliminating the need for dedicated control lines.

The 300TAR has two modes of operation. In one mode, the unit can be adjusted for specific audio frequencies. The other mode does not discriminate and activates upon any audio signal, including tones or voice.

The 300TAR accepts all connector cards (300CK, 300CKS, AM25CK and AM70CK), allowing its use with today’s most popular audio line voltages.

The 300TAR is encased in a sturdy, die cast aluminum, corrosion-resistant housing. The unit is UL Listed.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Sys. Standby Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>300TAR</td>
<td>24VDC, 50/60Hz</td>
<td>168/180mA</td>
<td>92/93mA</td>
</tr>
<tr>
<td>300TAR</td>
<td>24VAC</td>
<td>56mA</td>
<td>29mA</td>
</tr>
<tr>
<td>300TAR</td>
<td>120VAC, 50/60Hz</td>
<td>64/38mA</td>
<td>61/32mA</td>
</tr>
<tr>
<td>300TAR</td>
<td>240VAC, 50/60Hz</td>
<td>32/19mA</td>
<td>31/17mA</td>
</tr>
</tbody>
</table>

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
TONE ACTIVATED RELAY (300TAR)

HOW TO ORDER
• Specify model and voltage
• Specify signal line voltage (10, 25, or 70Vrms)
• Specify Connector Kit for use in systems
  - Connector Kit (300CK)
  - Supervised Connector Kit (300CKS)
  - 25Vrms Connector Kit (AM25CK)
  - 70Vrms Connector Kit (AM70CK)
• Please refer to Model Number Index 300TAR beginning on page 379

SPECIFICATIONS
- Operating Temperature: -31°F to 150°F  -35°C to 66°C
- Input Signal: 1Vrms 1Vrms
- Input Signal Frequency: Tone 470Hz to 1300Hz +/-15%
  PA 60Hz to 5000Hz +/-15%
- Net Weight: 2.75 lbs. 1.25 kg
- Ship. Weight: 3.15 lbs. 1.43 kg
- Height: 5.63" 14.3 cm
- Width: 4.94" 12.6 cm
- Depth: 3.38" 8.6 cm

REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double Pole Relay</td>
<td>K131207A</td>
</tr>
<tr>
<td>PCB Assembly, 24VDC</td>
<td>K2001306B-01</td>
</tr>
<tr>
<td>PCB Assembly, 120/240VAC</td>
<td>K2001306B</td>
</tr>
</tbody>
</table>

Input audio signal from 300VSC-1, 300SCW-1, 300SSC, 300MB, or 300MC

Controlled Relay Output

Automatic Dialers

Fire Doors

Visual Signals
SelecTone® Command Unit

Model 300VSC-1

The Federal Signal Model 300VSC-1 SelecTone® Command Unit generates up to four tones or voice communications in a SelecTone System. Four tones, auxiliary, test and cancel are controlled via an illuminated keypad. Voice transmission is activated by keying the optional desktop or hand-held microphone.

The Model 300VSC-1 is UL Listed and CSA Certified.

Select up to four plug-in tone modules, including the UTM Universal Tone Module and the TM33 Custom Tone Module.

Public address can be accessed from the local microphone or via the remote microphone input. Audio input allows background music to be played from any 1 volt-peak-to-peak source system. Public address has the highest priority followed by tones 1-4, remote microphone and auxiliary audio.

"Test" plays tones or voice messages through the monitor speaker only. "Cancel" interrupts any tone.

External switches can be wired into the command unit for automatic remote operation of the signal system.

The 300VSC-1 SelecTone Command Unit is the basis for a simple, versatile general signaling system for weather warning, start and dismissal, general alarm, evacuation and paging.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Sys. Standby Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>300VSC-1</td>
<td>24VDC</td>
<td>0.50 amps</td>
<td>0.08 amps</td>
</tr>
<tr>
<td>300VSC-1</td>
<td>120VAC</td>
<td>0.21 amps</td>
<td>0.03 amps</td>
</tr>
<tr>
<td>300VSC-1</td>
<td>240VAC</td>
<td>0.10 amps</td>
<td>0.02 amps</td>
</tr>
</tbody>
</table>

DESIGNED FOR SELECTONE® SYSTEMS

- Produces four prioritized tones and public address
- Remote microphone input
- Multivoltage design accepts 24VDC, 120VAC or 240VAC
- Desktop design
- UL Listed, CSA Certified
- Type 1 enclosure
SELECTONE COMMAND UNIT (300VSC-1)

HOW TO ORDER
• Specify model
• Specify up to four Tone Modules:
  Universal Tone Module (UTM)
  Custom Tone Module (TM33)
• Specify options:
  Handheld Microphone (MNC-1)
  Desktop Microphone (MSB-1)
• Please refer to Model Number Index 300VSC-1 beginning on page 379

SPECIFICATIONS
Tone Output Levels
  Unbalanced Signal Line
    10 Vrms (25 Ohm max.)
  Balanced Signal Line
    25 Vrms (40 Ohm max./15 watt)
  Signal to Noise Ratio
    <1.5% THD Chip Input 67dB
  Signal Frequency Response
    250Hz to 4.5KHz (typical)
Net Weight:
  3.1 lbs. 1.4 kg
Shipping Weight:
  4.2 lbs. 1.9 kg
Height:
  2.44" 62 mm
Width:
  10.5" 267.8 mm
Depth:
  9.25" 235 mm

REPLACEMENT PARTS
<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC Board Assemblies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mother Board</td>
<td>K2001154E</td>
<td>Connectors, 17 Position</td>
<td>K140A332A-17</td>
</tr>
<tr>
<td>Switch Board</td>
<td>K2001147A</td>
<td>Connectors, 16 Position</td>
<td>K140A332A-16</td>
</tr>
<tr>
<td>Tone Card Connector</td>
<td>K2001164A</td>
<td>Fuse 250V, 1 Amp</td>
<td>K148A155A-01</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fuse 250V, ½ Amp</td>
<td>K148A155A</td>
</tr>
</tbody>
</table>
The Federal Signal Model 300VSC-1044SB SelecTone® Command Unit generates up to four tones or voice communications in a SelecTone system. The housing can be mounted in any standard 19” equipment rack. Four tones, auxiliary, test and cancel are controlled via an illuminated keypad. Voice transmission is activated by keying the optional desktop or hand-held microphone.

The Model 300VSC-1044SB is UL Listed and CSA Certified. Select up to four plug-in tone modules, including the UTM Universal Tone Module or the TM33 Custom Tone Module. Public address can be accessed from the optional local microphone or the remote microphone input. Audio input allows background music to be played from any 1 volt peak-to-peak audio source. Public address has the highest priority, followed by tones 1-4, remote microphone and audio.

"Test" plays tones or voice messages through the monitor speaker only. "Cancel" interrupts any tone.

External dry contact closures can be wired into the command unit for automatic remote operation of the signal system.

The 300VSC-1044SB SelecTone Command Unit is the basis for a simple, versatile general signaling system for weather warning, start and dismissal, general alarm, evacuation and paging.

### Spec Sheet:

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Sys. Standby Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>300VSC-1044SB</td>
<td>24VDC</td>
<td>0.50 amps</td>
<td>0.08 amps</td>
</tr>
<tr>
<td>300VSC-1044SB</td>
<td>120VAC 50/60Hz</td>
<td>0.20 amps</td>
<td>0.03 amps</td>
</tr>
<tr>
<td>300VSC-1044SB</td>
<td>240VAC</td>
<td>0.10 amps</td>
<td>0.02 amps</td>
</tr>
</tbody>
</table>

---

**DESIGNED FOR SELECTONE® SYSTEMS**

- Produces four prioritized tones and public address
- Remote microphone input
- Multivoltage design accepts 24VDC, 120VAC or 240VAC
- 19" rack mount
- UL Listed, CSA Certified
- Type 1 enclosure
SELECTONE® COMMAND UNIT (300VSC-1044SB)

SPECIFICATIONS

Tone Output Levels
- Unbalanced Signal Line: 10 Vrms (25 Ohm max.)
- Balanced Signal Line: 25 Vrms (40 Ohm max./15 watt)
- Signal to Noise Ratio: <1.5% THD Chip Input 67 dB
- Signal Frequency Response: 250Hz to 4.5KHz (typical)

Net Weight: 4.3 lbs. 1.95 kg
Shipping Weight: 7.9 lbs. 3.58 kg
Height: 3.5” 88.9 mm
Width: 19” 482.6 mm
Depth: 10” 254 mm

HOW TO ORDER

- Specify model
- Specify up to four Tone Modules:
  - Universal Tone Module (UTM)
  - Custom Tone Module (TM33)
- Specify options:
  - Handheld Microphone (MNC-1)
  - Desktop Microphone (MSB-1)
- Please refer to Model Number Index 300VSC-1044SB beginning on page 379

REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC Board Assemblies</td>
<td></td>
<td>Connectors, 17 Position</td>
<td>K140A332A-17</td>
</tr>
<tr>
<td>Mother Board</td>
<td>K2001154E</td>
<td>Connectors, 16 Position</td>
<td>K140A332A-16</td>
</tr>
<tr>
<td>Switch Board</td>
<td>K2001147A</td>
<td>Fuse 250V, 1 Amp</td>
<td>K148A155A-01</td>
</tr>
<tr>
<td>Tone Card Connector</td>
<td>K2001164A</td>
<td>Fuse 250V, ½ Amp</td>
<td>K148A155A</td>
</tr>
</tbody>
</table>

2645 Federal Signal Dr., University Park, IL 60466 Tel: 708.534.4756 Fax: 708.534.4852 www.federalsignal-indust.com

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
DC STAND-ALONE TONE SIGNALING WITH DC OPERATING VOLTAGE

• Compatible with Federal Signal UTM Tone Module
• Available in 12VDC, 36VDC and 250VDC
• Produces 110dB @ 10' (120dB @ 1m)
• UL and cUL Listed, CSA Certified for indoor/outdoor use
• Type 3R enclosure

The Federal Signal SelecTone® Model 300 is a lightweight and compact, solid-state audible signaling device designed to amplify a pre-selected tone over existing ambient noises. The speaker cone and projector are made of spun aluminum. The internal amplifier circuitry and tone module are contained in a housing of die-cast aluminum. Dust- and moisture-proof gasketing provides protection from the elements. All external components are sealed with gray enamel paint.

The Model 300 is designed for applications which have 12, 36, or 250VDC power supplies. The 250VDC version is UL and cUL Listed and CSA Certified. All models are rated Type 3R for indoor/outdoor use.

The Model UTM (Universal Tone Module) is used with this device to generate one of 32 tones. The Model 300 is designed to be used as a stand-alone, full output unit and cannot be used with a SelecTone Command Unit (public address is not possible).

Internal ballast resistors are provided on 36VDC models. Maximum continuous output is up to 110dB @ 10 feet (120dB @ 1m).

Model 300 speaker/amplifiers are ideally suited for full output tone signaling where voice paging is not a requirement. Typical applications include emergency warning, start and dismissal, general alarm, smelters and cranes.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Sys. Standby Current</th>
<th>Decibels @ 10'</th>
<th>Decibels @ 1m</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>12VDC</td>
<td>1.25 amps</td>
<td>N/A</td>
<td>110</td>
<td>120</td>
</tr>
<tr>
<td>300</td>
<td>36VDC</td>
<td>0.60 amps</td>
<td>N/A</td>
<td>110</td>
<td>120</td>
</tr>
<tr>
<td>300</td>
<td>250VDC</td>
<td>0.72 amps</td>
<td>N/A</td>
<td>110</td>
<td>120</td>
</tr>
</tbody>
</table>
**SPECIFICATIONS**

- Operating Temperature: 
  - -31°F to 161°F
  - -35°C to 72°C
- Net Weight: 
  - 5 lbs.
  - 2.3 kg
- Shipping Weight: 
  - 6.1 lbs.
  - 2.8 kg
- Height: 
  - 12.25”
  - 311 mm
- Width: 
  - 7.94”
  - 201.7 mm
- Depth: 
  - 8.25”
  - 210 mm

**HOW TO ORDER**

- Specify model number and voltage
- Specify Tone Module
- Universal Tone Module (UTM)
- Please refer to Model Number
- Index 300 beginning on page 378

**REPLACEMENT PARTS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amplifier, 12VDC</td>
<td>K200B467</td>
</tr>
<tr>
<td>Amplifier, 36VDC</td>
<td>K200B533</td>
</tr>
<tr>
<td>Amplifier, 250VDC</td>
<td>K2001903A</td>
</tr>
<tr>
<td>Voice Coil</td>
<td>K8593035A</td>
</tr>
<tr>
<td>Speaker Assembly</td>
<td>K8593040A</td>
</tr>
</tbody>
</table>
PROVIDES SPEAKER/AMPLIFIER TERMINATION WITH SELECTONE® COMMAND UNITS

- 300CK — required by every speaker/amplifier used with command units 300MB, 300MC, 300SCW-1, 300VSC-1, or 300VSC-1044SB
- 300CKS — required by every speaker/amplifier used with the Federal Signal supervised command unit 300SSC
- UL and cUL Listed, CSA Certified, CSFM Approved

Federal Signal’s Models 300CK and 300CKS are the connector kits that allow SelecTone® speaker/amplifiers to be used with SelecTone Command Units.

When creating a SelecTone system based on a Command Center, rather than individual tone modules, each SelecTone speaker/amplifier requires a connector kit.

The Model 300CK connector kit is a circuit board which is installed in the tone module receptacle of a SelecTone speaker/amplifier, making it possible to transfer audio signals from the command unit to the individual speaker/amplifier.

Similarly, the Model 300CKS Supervised Connector Kit is required for each speaker/amplifier in a supervised SelecTone system. Model 300CKS receives the audio signal from the Model 300SSC command unit and conducts the signal to the speaker/amplifier.

Connector kits are required for every SelecTone speaker/amplifier unit in a SelecTone employee alarm and communication system. The Model 300CK is used in non-supervised SelecTone systems with Models 300MB, 300MC, 300VSC-1, 300VSC-1044SB and 300SCW-1. The Model 300CKS supervised connector kit is used with the Model 300SSC supervised command unit.
SELECTONE® CONNECTOR KITS (300CK/300CKS)

Model 300CK

A 300CK is required with every speaker/amplifier (Models 50GC, 300GC, 302GC, etc.) when used with Models 300MB, 300MC, 300VSC-1 or 300SCW-1 Command Units. (Optionally, an AM25CK could be used in place of the 300CK to create a "balanced" line)

Model 300CKS

The 300CKS is required with every speaker/amplifier (Models 50GC, 300GC, 302GC, etc.) when used with Model 300SSC Supervised Command Unit.

SPEAKER/AMPLIFIER

Connector kits are used instead of tone modules when Selectone speaker/amplifiers are used in a Selectone® system, rather than individually. Connector kits are customer installed in the tone module receptacle of each speaker/amplifier.

300CK INTERCONNECTIONS from
300SCW-1, 300VSC-1, 300VSC-
1044SB, 300MB, 300MC
(300CK installed in speaker/amplifier)

Common

Signal

300CKS INTERCONNECTIONS
from 300SSC
(300CKS installed in speaker/amplifier)

Common

Signal

Power Supervision

End of Line Resistors installed...

HOW TO ORDER

• Please refer to Model Number Index
  300CK/300CKS beginning on page 378
Federal Signal's Model 300GC SelecTone Speaker Amplifier is designed to produce crisp, clear tones, digital voice messages and live public address in harsh environments with high ambient noise levels.

The rugged speaker cone and projector are constructed of spun aluminum. The internal circuitry, tone module, and gain control are contained in a housing constructed of die-cast aluminum. All surfaces are sealed with powder-coat paint. Dust- and moisture-proof gaskets provide protection from the elements.

The 300GC is UL Listed for indoor and outdoor use. It has been designed, tested and approved for use in Type 3R applications.

Internal gain control allows output adjustment from 86dB to a maximum of 110dB at 10 feet.

SelcTone Speaker Amplifiers are used individually or as part of a plant-wide emergency notification system. The Model UTM Universal Tone Module, with 32 tones, or the TM33 Custom Tone Module is plugged into a single SelcTone Speaker Amplifier for stand-alone use or into a SelcTone Command Unit for plant-wide signaling.

For plant-wide signaling, a Connector Kit is installed into each SelcTone Speaker Amplifier and wired to a central controller. SelcTone Command Units and CommCenter Digital Message Centers broadcast tones, voice messages, melodies and live public address to an unlimited number of SelcTone Speaker Amplifiers.

Typical applications for SelcTone include emergency warning, plant evacuation, start and dismissal, public address, and process control signaling.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Sys. Standby Current</th>
<th>Decibels @ 10'</th>
<th>Decibels @ 1m</th>
</tr>
</thead>
<tbody>
<tr>
<td>300GC</td>
<td>24VDC</td>
<td>0.55 amps</td>
<td>0.06 amps</td>
<td>110</td>
<td>120</td>
</tr>
<tr>
<td>300GC</td>
<td>24VAC 50/60Hz</td>
<td>1.25 amps</td>
<td>0.13 amps</td>
<td>110</td>
<td>120</td>
</tr>
<tr>
<td>300GC</td>
<td>120VAC 50/60Hz</td>
<td>0.27 amps</td>
<td>0.03 amps</td>
<td>110</td>
<td>120</td>
</tr>
<tr>
<td>300GC</td>
<td>240VAC 50/60Hz</td>
<td>0.12 amps</td>
<td>0.02 amps</td>
<td>110</td>
<td>120</td>
</tr>
</tbody>
</table>

*Final UL 1480 approval pending,
SELECTONE® AUDIBLE SIGNALING DEVICE (300GC)

SPECIFICATIONS

- Operating Temperature: -31°F to 161°F
- Net Weight:
  - DC: 4.5 lbs. / 2.0 kg
  - AC: 5.0 lbs. / 2.3 kg
- Shipping Weight:
  - DC: 5.4 lbs. / 2.5 kg
  - AC: 6.3 lbs. / 2.9 kg
- Height: 12.25" / 311.2 mm
- Width: 7.94" / 201.7 mm
- Depth: 8.25" / 210 mm

HOW TO ORDER

- Specify model number and voltage
- Specify Tone Module for stand alone operation:
  - Universal Tone Module (UTM)
  - Custom Tone Module (TM33)
- Specify Connector Kit for use in systems (Call Factory for system design assistance):
  - Connector Kit (300CK)
  - Supervised Connector Kit (300CKS)
  - 25Vrms Connector Kit (AM25CK)
  - 70Vrms Connector Kit (AM70CK)
- Please refer to Model Number Index 300GC beginning on page 378

REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amplifier Assembly</td>
<td>K200B528</td>
</tr>
<tr>
<td>Transformer, 120VAC</td>
<td>K120B121K-05</td>
</tr>
<tr>
<td>Transformer, 240VAC</td>
<td>K120B128E-01</td>
</tr>
<tr>
<td>Speaker Assembly</td>
<td>K8593040A</td>
</tr>
<tr>
<td>Voice Coil, Series C</td>
<td>K8593035A</td>
</tr>
</tbody>
</table>
SelecTone® Audible Signaling Device

Model 302GC

Federal Signal's Model 302GC SelecTone Speaker Amplifier is designed to produce crisp, clear tones, digital voice messages and live public address in harsh environments with high ambient noise levels.

The rugged speaker cone and projector are constructed of spun aluminum. The internal circuitry, tone module, and gain control are contained in a housing constructed of die-cast aluminum. All surfaces are sealed with powder-coat paint. Dust- and moisture-proof gaskets provide protection from the elements.

The 302GC is UL Listed for indoor and outdoor use. It has been designed, tested and approved for use in Type 3R applications.

Internal gain control allows output adjustment from 90dB to a maximum of 114dB at 10 feet.

SelecTone Speaker Amplifiers are used individually or as part of a plant-wide emergency notification system. The Model UTM Universal Tone Module, with 32 tones, or the TM33 Custom Tone Module is plugged into a single SelecTone Speaker Amplifier for stand-alone use or into a SelecTone Command Unit for plant-wide signaling.

For plant-wide signaling, a Connector Kit is installed into each SelecTone Speaker Amplifier and wired to a central controller. SelecTone Command Units and CommCenter Digital Message Centers broadcast tones, voice messages, melodies and live public address to an unlimited number of SelecTone Speaker Amplifiers.

Typical applications for SelecTone include emergency warning, plant evacuation, start and dismissal, public address, and process control signaling.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Sys. Standby Current</th>
<th>Decibels @ 10'</th>
<th>Decibels @ 1m</th>
</tr>
</thead>
<tbody>
<tr>
<td>302GC</td>
<td>24VDC</td>
<td>1.10 amps</td>
<td>0.03 amps</td>
<td>114</td>
<td>124</td>
</tr>
<tr>
<td>302GC</td>
<td>24VAC 50/60Hz</td>
<td>2.50 amps</td>
<td>0.09 amps</td>
<td>114</td>
<td>124</td>
</tr>
<tr>
<td>302GC</td>
<td>120VAC 50/60Hz</td>
<td>0.50 amps</td>
<td>0.13 amps</td>
<td>114</td>
<td>124</td>
</tr>
<tr>
<td>302GC</td>
<td>240VAC 50/60Hz</td>
<td>0.20 amps</td>
<td>0.07 amps</td>
<td>114</td>
<td>124</td>
</tr>
</tbody>
</table>

*Final UL 1480 approval pending,
SELECTONE® AUDIBLE SIGNALING DEVICE (302GC)

REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amplifier Assembly</td>
<td>K200B683A</td>
</tr>
<tr>
<td>Speaker Assembly</td>
<td>K8593041A</td>
</tr>
<tr>
<td>Transformer, 120VAC</td>
<td>K120B224D</td>
</tr>
<tr>
<td>Transformer, 240VAC</td>
<td>K120B232C</td>
</tr>
<tr>
<td>Voice Coil, Series C</td>
<td>K8593036A</td>
</tr>
</tbody>
</table>

HOW TO ORDER

- Specify model number and voltage
- Specify Tone Module for stand alone operation
  - Universal Tone Module (UTM)
  - Custom Tone Module (TM33)
- Specify Connector Kit for use in systems (Call Factory for system design assistance)
  - Connector Kit (300CK)
  - Supervised Connector Kit (300CKS)
  - 25Vrms Connector Kit (AM25CK)
  - 70Vrms Connector Kit (AM70CK)
- Please refer to Model Number Index 302GC beginning on page 379

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>DC</th>
<th>AC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-31°F to 161°F</td>
<td>-35°C to 72°C</td>
</tr>
<tr>
<td>Net Weight</td>
<td>5.9 lbs.</td>
<td>2.7 kg</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>7.2 lbs.</td>
<td>3.3 kg</td>
</tr>
<tr>
<td>Height</td>
<td>14.0”</td>
<td>356 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>7.3 lbs.</td>
<td>3.3 kg</td>
</tr>
<tr>
<td>Width</td>
<td>10.5”</td>
<td>266.7 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>11.0”</td>
<td>279 mm</td>
</tr>
</tbody>
</table>

Net Weight: 5.9 lbs. (2.7 kg) for DC, 7.2 lbs. (3.3 kg) for AC
Shipping Weight: 7.3 lbs. (3.3 kg) for DC, 8.5 lbs. (3.9 kg) for AC
Height: 14.0” (356 mm) for DC, 10.5” (266.7 mm) for AC, 11.0” (279 mm) for AC
Width: 5.63” (143 mm) for DC
Depth: 3.38” (85.85 mm) for DC
SelectTone® Audible Signaling Device

Model 50GC

Federal Signal's Model 50GC SelectTone Speaker Amplifier is designed to produce crisp, clear tones, digital voice messages and live public address.

In the Model 50GC a short, folded re-entrant horn is interposed between the diaphragm and surrounding air space. This design provides optimal dB output and very good frequency response.

The 50GC is UL Listed. It has been designed, tested and approved for use in Type 3R applications. When installed with the Model WB Weatherproof Backbox, the 50GC is suitable for use outdoors.

Internal gain control allows output adjustment from 64dB to a maximum of 88dB at 10 feet.

SelectTone Speaker Amplifiers are used individually or as part of a plant-wide emergency notification system. The Model UTM Universal Tone Module, with 32 tones, or the TM33 Custom Tone Module is plugged into a single SelectTone Speaker Amplifier for stand-alone use or into a SelectTone Command Unit for plant-wide signaling.

For plant-wide signaling, a Connector Kit is installed into each SelectTone Speaker Amplifier and wired to a central controller. SelectTone Command Units and CommCenter Digital Message Centers broadcast tones, voice messages, melodies and live public address to an unlimited number of SelectTone Speaker Amplifiers.

The compact size and attractive appearance of the Model 50GC make it ideal for use in offices, hallways, reception, and plant areas where ambient noise levels are not exceedingly high, and even sound dispersal is desired. Emergency signaling and paging are common applications.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Sys. Standby Current</th>
<th>Decibels @ 10'</th>
<th>Decibels @ 1m</th>
</tr>
</thead>
<tbody>
<tr>
<td>50GC</td>
<td>24VDC</td>
<td>0.07 amps</td>
<td>0.025 amps</td>
<td>88</td>
<td>98</td>
</tr>
<tr>
<td>50GC</td>
<td>24VAC 50/60Hz</td>
<td>0.22 amps</td>
<td>0.095 amps</td>
<td>88</td>
<td>98</td>
</tr>
<tr>
<td>50GC</td>
<td>120VAC 50/60Hz</td>
<td>0.04 amps</td>
<td>0.027 amps</td>
<td>88</td>
<td>98</td>
</tr>
<tr>
<td>50GC</td>
<td>230/240VAC 50/60Hz</td>
<td>0.02 amps</td>
<td>0.013 amps</td>
<td>88</td>
<td>98</td>
</tr>
</tbody>
</table>
SELECTONE® AUDIBLE SIGNALING DEVICE (50GC)

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-31°F to 161°F</td>
</tr>
<tr>
<td>Net Weight</td>
<td>1.7 lbs.</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>2.2 lbs.</td>
</tr>
<tr>
<td>Height</td>
<td>4.50&quot;</td>
</tr>
<tr>
<td>Width</td>
<td>4.50&quot;</td>
</tr>
<tr>
<td>Depth</td>
<td>3.44&quot;</td>
</tr>
<tr>
<td>Net Weight</td>
<td>0.8 kg</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>1.0 kg</td>
</tr>
<tr>
<td>Height</td>
<td>114 mm</td>
</tr>
<tr>
<td>Width</td>
<td>114 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>87 mm</td>
</tr>
</tbody>
</table>

**HOW TO ORDER**

- Specify model and voltage
- Specify Tone Module for stand alone operation
  - Universal Tone Module (UTM)
  - Custom Tone Module (TM33)
- Specify Connector Kit for use in systems (Call factory for system design assistance)
  - Connector Kit (300CK)
  - Supervised Connector Kit (300CKS)
  - 25Vrms Connector Kit (AM25CK)
  - 70Vrms Connector Kit (AM70CK)
- Specify options:
  - Knock-out Back Box (NBL)
  - Weatherproof Back Box (WB)
  - Grille (FG)
  - Flush Mount Back Box (FBL)
- Please refer to Model Number Index 50GC beginning on page 378
SelecTone® Audible Signaling Device

Model 50GCB

Federal Signal's Model 50GCB SelecTone Speaker Amplifier is designed to produce crisp, clear tones, digital voice messages and live public address. Designed to mount in ceilings, the 50GCB features a seven-inch white grille over a 4” speaker amplifier.

Internal gain control allows output adjustment from 64dB to a maximum of 88dB at 10 feet.

SelecTone Speaker Amplifiers are used individually or as part of a plant-wide emergency notification system. The Model UTM Universal Tone Module, with 32 tones, or the TM33 Custom Tone Module is plugged into a single SelecTone Speaker Amplifier for stand-alone use or into a SelecTone Command Unit for plant-wide signaling.

For plant-wide signaling, a Connector Kit is installed into each SelecTone Speaker Amplifier and wired to a central controller, a SelecTone Command Unit or a CommCenter Digital Message Center. SelecTone Command Units and CommCenter Digital Message Centers can broadcast tones, voice messages, melodies and live public address to an unlimited number of SelecTone Speaker Amplifiers.

The 50GCB is designed for areas without high ambient noise levels, such as offices, hallways and receptions areas. The baffle allows the four-inch speaker to be installed easily in any suspended ceiling plenum with a Model R4NB backbox. The white grill of the 50GCB is attractive in most decors.

Emergency signaling or paging are common applications for SelecTone.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Sys. Standby Current</th>
<th>Decibels @ 10'</th>
<th>Decibels @ 1m</th>
</tr>
</thead>
<tbody>
<tr>
<td>50GCB</td>
<td>24VDC</td>
<td>0.07 amps</td>
<td>0.025 amps</td>
<td>88</td>
<td>98</td>
</tr>
<tr>
<td>50GCB</td>
<td>24VAC 50/60Hz</td>
<td>0.22 amps</td>
<td>0.095 amps</td>
<td>88</td>
<td>98</td>
</tr>
<tr>
<td>50GCB</td>
<td>120VAC 50/60Hz</td>
<td>0.04 amps</td>
<td>0.027 amps</td>
<td>88</td>
<td>98</td>
</tr>
</tbody>
</table>

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
SELECTONE® AUDIBLE SIGNALING DEVICE (50GCB)

HOW TO ORDER

- Specify model and voltage
- Specify Tone Module for stand alone operation
  Universal Tone Module (UTM)
  Custom Tone Module (TM33)
- Specify Connector Kit for use in systems (Call factory for system design assistance)
  Connector Kit (300CK)
  Supervised Connector Kit (300CKS)
  25Vrms Connector Kit (AM25CK)
  70Vrms Connector Kit (AM70CK)
- Specify options:
  Back Box (R4NB)
- Please refer to Model Number Index 50GCB beginning on page 378

SPECIFICATIONS

- Operating Temperature: -31°F to 161°F
- Net Weight: 1.6 lbs. 0.73 kg
- Shipping Weight: 2.3 lbs. 1.04 kg
- Depth: 2.53" 64.3 mm
- Diameter: 7.23" 183.6 mm

Tone Module Slot
Gain Control

White Baffle Grille
SelecTone® Extension Module

Model EM3

The Federal Signal Model EM3 SelecTone® Extension Module is designed to add multi-tone capability to an individual SelecTone unit and can be used with Models 300, 300GC, and 302GC.

The die-cast aluminum alloy housing has the same dimensions as the main amplifier housing of the above mentioned models and is sealed with gray enamel paint. The EM3’s internal components are protected from the elements by dust- and moisture-proof seals.

The EM3 Extension Module requires no power supply of its own. Its internal components are a wiring terminal strip, edge connector slots for three Model UTM* tone modules and an interface to connect to a SelecTone 300, 300GC, or 302GC signaling device.

With the EM3, three functions can be simultaneously monitored rather than one. Tone activation and selection is accomplished by user-supplied, normally-open dry contacts.

Where voice communication is not necessary and the application requirements dictate up to three tone signals, the EM3 Extension Module allows a single SelecTone audible signal to fill those needs.

Adding Federal Signal’s Model EM3 to a SelecTone speaker/amplifier allows a single unit to produce up to three distinct tones.

*The EM3 is not compatible with the TM33 Tone Module.
SELECTONE® EXTENSION MODULE (EM3)

HOW TO ORDER
• Specify model number
• Specify number of Universal Tone Modules (UTM), up to three
• Please refer to Model Number Index EM3 beginning on page 378

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-31°F to 161°F</td>
<td>-35°C to 72°C</td>
</tr>
<tr>
<td>Net Weight:</td>
<td>1.0 lbs.</td>
<td>0.45 kg</td>
</tr>
<tr>
<td>Shipping Weight:</td>
<td>2.2 lbs.</td>
<td>1.0 kg</td>
</tr>
<tr>
<td>Height:</td>
<td>5.63&quot;</td>
<td>142.9 mm</td>
</tr>
<tr>
<td>Width:</td>
<td>4.94&quot;</td>
<td>125.4 mm</td>
</tr>
<tr>
<td>Depth:</td>
<td>3.38&quot;</td>
<td>85.7 mm</td>
</tr>
</tbody>
</table>

Accepts up to 3 Tone Modules (purchased separately)

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
SelecTone® Custom Tone Module

Model TM33

Federal Signal's Model TM33 Digital Tone Module provides audio input for any SelecTone® speaker/amplifier. The tone module holds a single pre-recorded voice message, tone or melody.

The user selects from a library of standard pre-recorded messages, tones or melodies, or creates a customized recording.

Each tone module contains a 16-second non-volatile EE-PROM (electronically erasable/programmable read only memory) chip. The Model TM33 can either be set to play through once and stop or loop continuously.

This solid state digital device will work with Federal Signal speaker/amplifiers (including 50GC, 50GCB, 300GC, 300GCX, 302GC, 302GCX, 300X, 302X, 304GC, 314GC, 304GCX, 314GCX, 304X, and 314X) and the 300VSC-1, 300SCW-1, 300VSC-1044SB SelecTone Command Panels*.

The TM33's digital messaging capabilities are ideal for emergency evacuation announcements. Clear, concise, pre-determined instructions or custom tones can be broadcast.

Manufacturing facilities often require an audible signal to indicate status (i.e. standby, shut down, operational, etc.). Simple pre-recorded melodies can indicate these situations, while voice messages can warn operators.

Many industrial facilities utilize public address systems to broadcast repetitive pre-recorded information. The Model TM33 provides high-quality audio output in these applications.

Federal Signal's TM33 Custom Tone Module provides the user with the option of producing a completely customized digital message, in any language, without paying a “custom” price.

*Not compatible with the EM3 Extension Module
CUSTOM TONE MODULE (TM33)

STANDARD LIBRARY FOR TM33 AND COMMCENTER CHIPS

VOICE MESSAGES

"An automatic guided vehicle is approaching. Please step aside."
"System is now in auto shutdown mode."
"Lockout has been removed, system is coming on line."
"Check status light for current system condition."
"Auto shut down has begun. Raw materials must be replenished and system reset."
"You have entered a restricted area."
"The automatic doors are closing. Please stand clear."
"The overhead door is closing. Please stand clear."
"Safety glasses must be worn in this area at all times."
"This is a hard hat area."
"A forklift is approaching. Please stand clear."
"Attention! We will be testing the fire alarm system shortly. This is only a test."
"Attention! For the next thirty seconds a test will be conducted of the emergency evacuation system. This is only a test."
"Warning, this machine is about to start up. Please stand clear."
TM3 followed by "Please take shelter immediately. This is a severe weather alert."
TM11 followed by "Please evacuate the building. This is not a test."
TM5 followed by "Tornado alert. Report to your designated area."
TM12 followed by "All clear. Return to work area."

NOVELTY MELODIES

Camp Town Races
Doggie in the Window
Maple Leaf Rag
The Entertainer
Worms Crawl In

SAINTS COME MARCHING IN
La Cucaracha
Merrily We Roll Along
The Mulberry Bush

CLASSICAL MELODIES

Bach
Fugue in "D" Minor
Fugue in "A" Minor
Beethoven
Sth Symphony
Sonata Theme
Chopin
Minuet Waltz
Polonaise in "A" Minor
Greig
Dance Caprice
Concerto in "A" Minor
Rackoczy
March
Stauss
Blue Danube
Tchaikovsky
Concerto in "B" Flat Minor
Rossini
William Tell Overture

FOLK MELODIES

Coventry Carol
Cradle Song
Dance Macabre
Dixie Land
Lightly Row
London Bridge
Go Tell Aunt Rhody
Greensleeves
Henry Martin
Home on the Range

Love's Complaint
Morning Song
Oh Suzannah
Oh Wondrous Enchantment
Prince Igor
Suwanee River
Watchman's Song

ETHNIC MELODIES

Irish Jig
J'ai Du Bon Taboc
My Bonnie
Norwegian Dance
The Horn Pipe

PATRIOTIC MELODIES

Battle Hymn of the Republic
My Country 'tis of Thee
Taps

TONES AND SIGNALS

TM1
Conventional Siren (Wail)
TM2
Rapid Siren (Yelp)
TM3
Alternating High-Low
TM4
Bell, Struck Rapidly
TM5
Descending High to Low, repeated (Yeow)
TM6
Steady Horn
TM7
Slow Intermittent Horn (Beep)
TM8
Rapid Intermittent Horn (Stutter)
TM9
Slow Ascending Low to High, Repeated (Slow Whoop)
TM11
NFPA* Temporal Coded Slow Whoop
TM12
Westminster Chime
TM13
Radiation Alarm
TM14
Air Horn
TM15
Single Strike Chime
TM16
Rapid Siren (Phaser)
TM17
Alternating High/Low
TM18
Extremely Rapid Siren (Warble)

*National Fire Protection Association

HOW TO ORDER

1. Specify Model, see Model Number Index TM33 on page 378
2. Choose Message Source
   a. Select from Standard Library Above
   b. Send script to Federal Signal to be recorded in studio (additional charge incurred)
   c. Send field-recorded cassette tape recording to Federal Signal to be transferred to chip
   d. Field record message using the Federal Signal model 300MCDK recorder/playback unit.

2645 Federal Signal Dr., University Park, IL 60466  Tel: 708.534.4756  Fax: 708.534.4852  www.federalsignal-indust.com
Federal Signal’s Universal Tone Module (UTM) is a microcontroller-based tone generator capable of producing 32 different tones. The UTM is the key component of a SelecTone® System or a single SelecTone device. Tone selection is made by setting five DIP switches.

Housed in a plastic cover impregnated with stainless steel fibers, the circuitry is shielded from RFI (radio frequency interference) and EMI (electro-magnetic interference). The edge connector allows for quick and simple installation.

The UTM can be substituted for any of the 13 SelecTone Tone Modules (TM Series).

In addition to working with the entire SelecTone line of speaker/amplifier products, the Model UTM is compatible with the EM3 Extension Module, 300VSC-1 Command Unit, 300VSC-1044SB Command Unit, 300SCW-1 Command Unit and 300SSC Supervised Command Unit.

Federal Signal’s UTM provides crisp, clear digital signals easily distinguished from the ambient noise of commercial, institutional and industrial environments.
### Universal Tone Module (UTM)

**Diagram:**
- **RFI/EMI Shielded Cover**
- **Edge Connector**
- **Dimensions:**
  - 3.25’/82.6 mm
  - 2.25’/57.2 mm
  - 8.4’/21.3 mm

**Tone Module Specifications:**
- **Dimensions:** 3.25’/82.6 mm x 2.25’/57.2 mm x 8.4’/21.3 mm
- **Edison/BSA Connector**
- **RFI/EMI Shielded Cover**

<table>
<thead>
<tr>
<th>DIP Switch</th>
<th>Tone</th>
<th>Sound</th>
<th>Frequency</th>
<th>Repetition Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>↑↑↑↑↑</td>
<td>Wall</td>
<td>TM1</td>
<td>Conventional Siren</td>
<td>560-1055Hz</td>
</tr>
<tr>
<td>↑↑↑↑↓</td>
<td>Yelp</td>
<td>TM2</td>
<td>Rapid Siren</td>
<td>560-1055Hz</td>
</tr>
<tr>
<td>↑↑↑↓↓</td>
<td>Hi-Low</td>
<td>TM3</td>
<td>Alternating Hi and Low</td>
<td>561Hz and 760Hz</td>
</tr>
<tr>
<td>↑↑↓↓↓</td>
<td>Bell</td>
<td>TM4</td>
<td>Bell, Struck Rapidly</td>
<td>801Hz</td>
</tr>
<tr>
<td>↑↓↓↓↓</td>
<td>Yeow</td>
<td>TM5</td>
<td>Descending High to Low, Repeated</td>
<td>545Hz and 1296Hz</td>
</tr>
<tr>
<td>↑↓↓↓↓</td>
<td>Horn</td>
<td>TM6</td>
<td>Steady Horn</td>
<td>470Hz</td>
</tr>
<tr>
<td>↑↓↓↓↓</td>
<td>Beep</td>
<td>TM7</td>
<td>Slow Intermittent Horn</td>
<td>470Hz</td>
</tr>
<tr>
<td>↑↓↓↓↓</td>
<td>Stutter</td>
<td>TM8</td>
<td>Rapid Intermittent Horn</td>
<td>470Hz</td>
</tr>
<tr>
<td>↑↓↑↑↑</td>
<td>Slow Whoop</td>
<td>TM9</td>
<td>Slow Ascending Low to High, Repeated</td>
<td>424Hz and 1163Hz</td>
</tr>
<tr>
<td>↑↓↑↑↑</td>
<td>Gradual Horn</td>
<td>TM10</td>
<td>Steady Horn, Gradually Increasing in Volume</td>
<td>514Hz</td>
</tr>
<tr>
<td>↑↑↑↑↑</td>
<td>Temporal Slow Whoop</td>
<td>TM11</td>
<td>NFPA Coded Slow Whoop</td>
<td>424Hz and 774Hz</td>
</tr>
<tr>
<td>↑↑↑↑↓</td>
<td>Westminster Chime</td>
<td>TM12</td>
<td>Westminster Chime</td>
<td>Musical Tone</td>
</tr>
<tr>
<td>↑↑↓↓↓</td>
<td>Evac</td>
<td>TM13</td>
<td>Amplitude Modulated Siren</td>
<td>479Hz</td>
</tr>
<tr>
<td>↑↑↓↓↓</td>
<td>Air Horn</td>
<td>TM14</td>
<td>Steady Horn</td>
<td>400Hz and 800Hz</td>
</tr>
<tr>
<td>↑↑↑↓↓</td>
<td>Chime</td>
<td>TM15</td>
<td>Single Strike Chime</td>
<td>Musical Tone</td>
</tr>
<tr>
<td>↑↑↑↓↓</td>
<td>Phaser</td>
<td>TM16</td>
<td>Rapid Siren</td>
<td>600-1200Hz</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Alternating Hi/Low</td>
<td>TM17</td>
<td>Alternating High-to-Low</td>
<td>363Hz and 518Hz</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Warble</td>
<td>TM18</td>
<td>Extremely Rapid Siren</td>
<td>560-1055Hz</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Alert</td>
<td>TM19</td>
<td>Slow Sweep Tone</td>
<td>400-1560Hz</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Euro-Police</td>
<td>TM20</td>
<td>Alternating Hi and Low</td>
<td>969Hz and 800Hz</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Euro-Fire</td>
<td>TM21</td>
<td>Sweep Tone</td>
<td>900-800Hz</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Euro-Slow Whoop</td>
<td>TM22</td>
<td>Slow Sweep Tone</td>
<td>650-1290Hz</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Euro-General</td>
<td>TM23</td>
<td>Intermittent Horn</td>
<td>969Hz</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Euro-Toxic</td>
<td>TM24</td>
<td>Steady Horn</td>
<td>969Hz</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Euro-Police II</td>
<td>TM25</td>
<td>Slow Alternating Hi and Low</td>
<td>554Hz and 440Hz</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Euro-Stutter</td>
<td>TM26</td>
<td>Intermittent Bleep</td>
<td>2840Hz</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Euro-Sweep</td>
<td>TM27</td>
<td>Sweep Tone</td>
<td>1163 - 397Hz</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Ringer</td>
<td>TM28</td>
<td>Continuous Ringing Tone</td>
<td>560Hz and 326Hz</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Buzzer</td>
<td>TM29</td>
<td>Buzzer Tone</td>
<td>1318Hz and 760Hz</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Attention</td>
<td>TM30</td>
<td>Extremely Rapid Siren</td>
<td>Multiple Frequency</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Multi-Tone</td>
<td>TM31</td>
<td>Extremely Rapid Siren</td>
<td>Multiple Frequency</td>
</tr>
<tr>
<td>↓↑↑↑↑</td>
<td>Caution</td>
<td>TM32</td>
<td>Extremely Rapid Siren</td>
<td>Multiple Frequency</td>
</tr>
</tbody>
</table>
EXPANDS PUBLIC ADDRESS SYSTEM CAPACITY

- Interfaces SelecTone® speaker/amplifiers with an existing paging system
- Works in 25 or 70Vrms systems
- Creates a “balanced line” SelecTone System
- Allows the use of higher gauge wire in a SelecTone System
- UL and cUL Listed, CSA Certified, CSFM Approved

SelecTone® Connector Kits

Models AM25CK and AM70CK

The Models AM25CK and AM70CK are connector kits which allow the use of SelecTone® speaker/amplifiers (1Vrms devices) to be used in any public address system (25 or 70Vrms).

Using these connectors and the 25Vrms output from the 300VSC-1, 300VSC-1044SB, 300SCW-1, 300MB or 300MC SelecTone Command Center creates a true “balanced line” system which will filter all extraneous noise from the audio lines.

Expanding a centrally amplified public address system often requires the addition of another control amplifier. With the appropriate connector kits and SelecTone speaker/amplifiers, the system can easily be expanded, without the costly addition of a central amplifier.

Public address equipment manufacturers do not offer a wide selection of explosion-proof products. Now adding a Class I, Division 1, or Class I, Division 2 device to an existing central PA system is simple; select either a 300X, 300GCX, or 302GCX speaker/amplifier and the appropriate connector kit.

SelecTone typically require a minimum of 18-gauge twisted pair, isolated from the AC line. With an AM series connector kit and the 25Vrms output of the SelecTone control, a balanced line is created which filters induced line noise. This also allows the installer to use smaller gauge wire without the risk of poor intelligibility.

Federal Signal’s SelecTone Connector Kits allow existing public address systems to be expanded with SelecTone speaker/amplifiers — no additional central amplifier is required.
SELECTONE® CONNECTOR KITS (AM25CK/AM70CK)

HOW TO ORDER

- Please refer to Model Number Index AM25CK/AM70CK beginning on page 378
STAND ALONE SIGNALING, PLANT WIDE SIGNALING AND PUBLIC ADDRESS

- Command Units, Speaker/Amplifiers, Tone Cards and Connector Kits
- Available in 24VDC, 24VAC, 120VAC and 240VAC
- Indoor, outdoor and hazardous location models
- UL Listed, cUL Listed, CSA Certified

SelecTone systems cover the full range of industrial communication applications; start and dismissal, emergency evacuations, process control signaling, voice messages and public address. The SelecTone product family includes all the equipment necessary for a comprehensive industrial signaling and communications system; dependable, high-quality Command Units, weatherproof, dust-and watertight, hazardous location and explosion proof Speaker/Amplifiers, Tone Modules with pre-recorded digital voice messages, tones or melodies, and the Connector Kits that make it all work together. Every model is designed with the greatest care for long life in harsh, industrial environments.

SelecTone Speaker/Amplifiers are self-amplified speakers designed to broadcast pre-recorded tones, voice messages, melodies and live public address. Because the communication signal is amplified by each device, rather than by costly central amplifiers, the expense of running high-powered audio lines in conduit is eliminated. Each Speaker/Amplifier is designed for long life in harsh industrial environments. Systems provide limitless expansion for future grown. A range of models with outputs from 88dB to 114dB are available to overcome industrial noise levels. Each has an integrated volume control. SelecTone Speaker/Amplifiers can be used to expand existing public address systems without adding central amps. Systems are fault tolerant – if one devices fails, the others continue to operate. Each Speaker/Amplifier can also be used for stand-alone signaling applications.

SelecTone Command Units are the centerpiece of a total plant communication strategy. Each Command unit provides central control of four tones and public address. Each is equipped with local and remote microphone access and tone initiation. Auxiliary audio inputs support background music. Communication is prioritized with local microphone as highest, followed by tones 1 through 4, remote microphone, then auxiliary audio. An on-board amp supports a local speaker. Rack mount, wall mount and desktop models are available.
Connector Cards tie the SelecTone system together. Installed in each Speaker/Amplifier, Connector Cards provide communication with the SelecTone Command Unit. They can also be used to add SelecTone Speaker/Amplifiers to existing centrally amplified public address systems. Each Connector Card is designed to create a balanced line audio system for superior noise suppression and clear communication.

Tone Modules offer tones, messages and melodies for every application, location and event. The Universal Tone Module (UTM) provides a selection of 32 distinct tones for use in plant-wide communication systems with a SelecTone Command Unit and a limitless number of Speaker/Amplifiers or for use in stand along applications with a single Speaker/Amplifier. Tones are easily selected via DIP switches and the modules are designed for quick plug-in installation. When a custom voice message, tone or melody is the solution, Federal Signal offers the TM33 Custom Tone Module. Users can select from a library of thousands of messages and melodies or they can provide a tape, script or digital sound file for professional recording in any language.

In large facilities with existing ethernet networks, EAR Ethernet Audio Receivers can be used to distribute audio and control signals throughout the facility.

**SELECTONE PRODUCTS**

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal Tone Module</td>
<td>156</td>
</tr>
<tr>
<td>Custom Tone Module</td>
<td>158</td>
</tr>
<tr>
<td>Connector Kits</td>
<td>162-164</td>
</tr>
<tr>
<td>Speaker/Amplifiers</td>
<td>166-182</td>
</tr>
<tr>
<td>Command Units</td>
<td>184-190</td>
</tr>
<tr>
<td>Relay Activation</td>
<td>192</td>
</tr>
</tbody>
</table>
**SelecTone® Explosion-Proof Audible Signaling Device**

**Model 300X**

Federal Signal’s Model 300X SelecTone® Speaker Amplifier is designed to produce crisp, clear tones, digital voice messages and live public address in harsh environments with high ambient noise levels.

The rugged speaker cone and projector are constructed of spun aluminum. The internal circuitry, tone module, and gain control are contained in a housing constructed of die-cast aluminum. All surfaces are sealed with powder-coat paint. Dust- and moisture-proof gaskets provide protection from the elements.

The 300X is UL Listed and CSA Certified for Class 1, Division 1, Groups B, C & D. It has been designed, tested and approved for use in Type 3R applications.

Internal gain control allows output adjustment from 80dB to a maximum of 104dB at 10 feet.

SelecTone Speaker Amplifiers are used individually or as part of a plant-wide emergency notification system. The Model UTM Universal Tone Module, with 32 tones, or the TM33 Custom Tone Module is plugged into a single SelecTone Speaker Amplifier for stand-alone use or into a SelecTone Command Unit for plant-wide signaling.

For plant-wide signaling, a Connector Kit is installed into each SelecTone Speaker Amplifier and wired to a central controller. SelecTone Command Units and CommCenter Digital Message Centers broadcast tones, voice messages, melodies and live public address to an unlimited number of SelecTone Speaker Amplifiers.

Applications for SelecTone include emergency warning, plant evacuation, start and dismissal, public address, and process control.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Sys. Standby Current</th>
<th>Decibels @ 10’</th>
<th>Decibels @ 1m</th>
</tr>
</thead>
<tbody>
<tr>
<td>300X</td>
<td>24VDC</td>
<td>0.50 amps</td>
<td>0.06 amps</td>
<td>104</td>
<td>114</td>
</tr>
<tr>
<td>300X</td>
<td>24VAC 50/60Hz</td>
<td>1.30 amps</td>
<td>0.13 amps</td>
<td>104</td>
<td>114</td>
</tr>
<tr>
<td>300X</td>
<td>120VAC 50/60Hz</td>
<td>0.27 amps</td>
<td>0.03 amps</td>
<td>104</td>
<td>114</td>
</tr>
<tr>
<td>300X</td>
<td>240VAC 50/60Hz</td>
<td>0.13 amps</td>
<td>0.02 amps</td>
<td>104</td>
<td>114</td>
</tr>
</tbody>
</table>

*Final UL 1480 approval pending.*

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**DESIGNED FOR EXPLOSION-PROOF ENVIRONMENTS**

- Available in 24VAC/DC and 120/240VAC
- Built-in gain control
- Produces 80dB to 104dB @ 10’ (90dB to 114dB @ 1m)
- UL* and cUL Listed, CSA Certified, CSFM Approved
- Type 3R enclosure
EXPLOSION-PROOF AUDIBLE SIGNALING DEVICE (300X)

SPECFICATIONS

Operating Temperature
-31°F to 161°F
-35°C to 72°C

Net Weight:
24VAC 17.15 lbs. 7.78 kg
120/240VAC 18 lbs. 8.16 kg

Shipping Weight:
24VAC 18.8 lbs. 8.53 kg
120/240VAC 19.8 lbs. 8.98 kg

Height: 14.75" 375 mm
Width: 8.88" 225 mm
Depth: 14.75" 375 mm

REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amplifier, 120VAC</td>
<td>K200C511</td>
</tr>
<tr>
<td>Amplifier, 24VDC</td>
<td>K200C511-01</td>
</tr>
<tr>
<td>Amplifier, 240VAC</td>
<td>K200C511-02</td>
</tr>
<tr>
<td>Driver</td>
<td>K132139A</td>
</tr>
<tr>
<td>Transformer, 120VAC</td>
<td>K120B121K-06</td>
</tr>
<tr>
<td>Transformer, 240VAC</td>
<td>K120B128E-01</td>
</tr>
<tr>
<td>Speaker, Projector</td>
<td>K8283C431-0R</td>
</tr>
<tr>
<td>Speaker, Cone</td>
<td>K8283B430-01</td>
</tr>
</tbody>
</table>

HOW TO ORDER

- Specify model number and voltage
- Specify Tone Module for stand alone operation
  - Universal Tone Module (UTM)
  - Custom Tone Module (TM33)
- Specify Connector Kit for use in systems (Call Factory for system design assistance)
  - Connector Kit (300CK)
  - Supervised Connector Kit (300CKS)
  - 25Vrms Connector Kit (AM25CK)
  - 70Vrms Connector Kit (AM70CK)
- Please refer to Model Number Index 300X beginning on page 379
SelecTone®
Explosion-Proof
Audible Signaling Device

Model 302X

Federal Signal's Model 302X SelecTone Speaker Amplifier is designed to produce crisp, clear tones, digital voice messages and live public address in harsh environments with high ambient noise levels.

The rugged speaker cone and projector are constructed of spun aluminum. The internal circuitry, tone module, and gain control are contained in a housing constructed of die-cast aluminum. All surfaces are sealed with powder-coat paint. Dust- and moisture-proof gaskets provide protection from the elements.

The 302X is UL Listed and CSA Certified for Class 1, Division 1, Groups B, C & D. It has been designed, tested and approved for use in Type 3R applications.

Internal gain control allows output adjustment from 90dB to a maximum of 114dB at 10 feet.

SelecTone Speaker Amplifiers are used individually or as part of a plant-wide system. The Model UTM Universal Tone Module, with 32 tones, or the TM33 Custom Tone Module is plugged into a single SelecTone Speaker Amplifier for stand-alone use or into a SelecTone Command Unit for plant-wide signaling.

For plant-wide signaling, a Connector Kit is installed into each SelecTone Speaker Amplifier and wired to a central controller. SelecTone Command Units and CommCenter Digital Message Centers broadcast tones, voice messages, melodies and live public address to an unlimited number of SelecTone Speaker Amplifiers.

Typical applications for SelecTone include emergency warning, plant evacuation, start and dismissal, public address, and process control signaling.
EXPLOSION-PROOF AUDIBLE SIGNALING DEVICE (302X)

HOW TO ORDER

• Specify model number and voltage

• Specify Tone Module for stand alone operation
  Universal Tone Module (UTM)
  Custom Tone Module (TM33)

• Specify Connector Kit for use in systems (Call Factory for system design assistance)
  Connector Kit (300CK)
  Supervised Connector Kit (300CKS)
  25Vrms Connector Kit (AM25CK)
  70Vrms Connector Kit (AM70CK)

• Please refer to Model Number Index 302X beginning on page 378

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amplifier, 24VAC/VDC</td>
<td>K200C511-03</td>
</tr>
</tbody>
</table>

Operating Temperature: -31°F to 161°F, -35°C to 72°C
Net Weight: 20 lbs. 9.1 kg
Shipping Weight: 23 lbs. 10.4 kg
Height: 18.75" 476 mm
Width: 16.50" 419 mm
Depth: 21.25" 540 mm

REPLACEMENT PARTS

- Spun Aluminum Projector
- Rubber Speaker Protector
- Spun Aluminum Housing
- Cast Aluminum Explosion Proof Housing
- Adjustable Mounting Bracket
- 17/32" Diameter Mounting Holes
- 87/8"/225.4 mm
- 85/16"/211.1 mm
- 166/16"/415.9 mm
- 203/4"/527 mm

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SelecTone® Standby Battery/Back-up Power Supplies

Models PS250 and PS600

Federal Signal Power Supplies provide nominal 12VDC or 24VDC power that is switch selectable. The PS250 and PS600 are designed for use as standby battery back-up during a power outage. Both power supplies operate from a 120VAC, 60Hz power source (240VAC available upon request).

The steel enclosure is designed to mount on a wall or substantial vertical surface (indoor only). A key lock is provided to discourage unauthorized access – simple lock installation is required.

The power supply sub-assembly, which recharges the batteries, includes solid-state circuitry that provides DC operating voltage to units in a SelecTone® system, while maintaining a charge level on the batteries.

Both units can also be used as a primary 12V or 24V power source for other devices/systems.

Model PS250
The Model PS250 battery package includes two sealed lead-acid, gelled electrolyte batteries connected in series. Model PS250 is rated for seven amp-hours of capacity at 2.5 ampere. The PS250 is UL Listed.

Model PS600
The Model PS600 includes two 12-volt sealed, lead-acid, gelled electrolyte batteries, connected in series. Model PS600 batteries are rated for 12 amp-hours. This unit has a six ampere capacity. Model PS600 is UL Listed.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Output Current</th>
<th>Output Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS250</td>
<td>120VAC</td>
<td>2.5 amps</td>
<td>12/24VDC</td>
</tr>
<tr>
<td>PS600</td>
<td>120VAC</td>
<td>6 amp</td>
<td>12/24VDC</td>
</tr>
<tr>
<td>PS250</td>
<td>240VAC</td>
<td>1.25 amps</td>
<td>12/24VDC</td>
</tr>
<tr>
<td>PS600</td>
<td>240VAC</td>
<td>3 amp</td>
<td>12/24VDC</td>
</tr>
</tbody>
</table>
**SELECTONE® BACK-UP POWER SUPPLIES (PS250/PS600)**

**SPECIFICATIONS**
- Operating Temperature: 32°F to 120°F (0°C to 49°C)
- Net Weight:
  - PS250: 10.25 lbs. (4.65 kg)
  - PS600: 12.65 lbs. (5.74 kg)
- Shipping Weight:
  - PS250: 12.10 lbs. (5.49 kg)
  - PS600: 14.50 lbs. (6.58 kg)
- Height: 15.50” (394 mm)
- Width: 12.50” (318 mm)
- Depth: 4.50” (115 mm)

**HOW TO ORDER**
- Specify model number
- Specify options:
  - 120/240VAC Transformer (K120819A)
- Please refer to Model Number Index PS250/600 beginning on page 381

**REPLACEMENT PARTS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-volt, 12 amp-hour Battery (Model PS600)</td>
<td>K155190A</td>
</tr>
<tr>
<td>12-volt, 7 amp-hour Battery (Model PS250)</td>
<td>K155189A</td>
</tr>
<tr>
<td>PC Board (Model PS600)</td>
<td>K2001312A</td>
</tr>
<tr>
<td>PC Board (Model PS250)</td>
<td>K2001313A</td>
</tr>
<tr>
<td>120/240VAC Transformer</td>
<td>K120819A</td>
</tr>
</tbody>
</table>
SelecTone® Hazardous Location Audible Signaling Device

Model 300GCX

Federal Signal's Model 300GCX SelecTone Speaker Amplifier is designed to produce tones, digital voice messages and live public address in harsh environments with high ambient noise levels.

The rugged speaker cone and projector are constructed of spun aluminum. The amplification circuitry, tone module, and gain control are contained in a housing constructed of die-cast aluminum. All surfaces are sealed with powder-coat paint. Dust- and moisture-proof gaskets provide protection from the elements.

The 300GCX is UL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F & G, and Class III. It has been tested and approved for use in Type 4X applications.

Internal gain control allows output adjustment from 86dB to a maximum of 110dB at 10 feet.

SelecTone Speaker Amplifiers are used individually or as part of a plant-wide emergency notification system. The Model UTM Universal Tone Module, with 32 tones, or the TM33 Custom Tone Module is plugged into a single SelecTone Speaker Amplifier for stand-alone use or into a SelecTone Command Unit for plant-wide signaling.

For plant-wide signaling, a Connector Kit is installed into each SelecTone Speaker Amplifier and wired to a central controller, SelecTone Command Unit or CommCenter Digital Message Center. Command Units and CommCenters broadcast tones, voice messages, melodies and live public address to an unlimited number of SelecTone Speaker Amplifiers.

Applications for SelecTone include emergency warning, evacuation, start/dismissal, public address, and process control signaling.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Sys. Standby Current</th>
<th>Decibels @ 10'</th>
<th>Decibels @ 1m</th>
</tr>
</thead>
<tbody>
<tr>
<td>300GCX</td>
<td>24VDC</td>
<td>0.55 amps</td>
<td>0.06 amps</td>
<td>110</td>
<td>120</td>
</tr>
<tr>
<td>300GCX</td>
<td>24VAC 50/60Hz</td>
<td>1.25 amps</td>
<td>0.13 amps</td>
<td>110</td>
<td>120</td>
</tr>
<tr>
<td>300GCX</td>
<td>120VAC 50/60Hz</td>
<td>0.27 amps</td>
<td>0.03 amps</td>
<td>110</td>
<td>120</td>
</tr>
<tr>
<td>300GCX</td>
<td>240VAC 50/60Hz</td>
<td>0.14 amps</td>
<td>0.02 amps</td>
<td>110</td>
<td>120</td>
</tr>
</tbody>
</table>

*Final UL 1480 approval pending,
HAZARDOUS LOCATION AUDIBLE SIGNALING DEVICE (300GCX)

**REPLACEMENT PARTS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amplifier Assembly</td>
<td>K200B528-01</td>
</tr>
<tr>
<td>Voice Coil, Series C</td>
<td>K8593035A</td>
</tr>
<tr>
<td>Transformer, 120VAC</td>
<td>K120B121K-05</td>
</tr>
<tr>
<td>Transformer, 240VAC</td>
<td>K120B128E-01</td>
</tr>
<tr>
<td>Speaker Assembly</td>
<td>K8593082A</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

Operating Temperature: -31°F to 161°F  
Net Weight:  
- 24V: 5.9 lbs. 2.65 kg  
- 120V: 6.3 lbs. 2.83 kg  
Shipping Weight:  
- 24V: 6.5 lbs. 2.95 kg  
- 120V: 6.8 lbs. 3.06 kg  
Height: 12.25” 311 mm  
Width: 7.94” 201.7 mm  
Depth: 8.25” 210 mm

**HOW TO ORDER**

- Specify model number and voltage
- Specify Tone Module for stand alone operation  
  Universal Tone Module (UTM)  
  Custom Tone Module (TM33)  
- Specify Connector Kit for use in systems (Call factory for system design assistance)  
  Connector Kit (300CK)  
  Supervised Connector Kit (300CKS)  
  25Vrms Connector Kit (AM25CK)  
  70Vrms Connector Kit (AM70CK)
- Please refer to Model Number Index 300GCX beginning on page 379

2645 Federal Signal Dr., University Park, IL 60466    Tel: 708.534.4756    Fax: 708.534.4852    www.federalsignal-indust.com

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
**SelecTone® Hazardous Location Audible Signaling Device**

**Model 302GCX**

Federal Signal's Model 302GCX SelecTone Speaker Amplifier is designed to produce tones, digital voice messages and live public address in harsh environments with high ambient noise levels.

The rugged speaker cone and projector are constructed of spun aluminum. The amplification circuitry, tone module, and gain control are contained in a housing constructed of die-cast aluminum. All surfaces are sealed with powder-coat paint. Dust- and moisture-proof gaskets provide protection from the elements.

The 302GCX is UL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F & G, and Class III. It has been tested and approved for use in Type 4X applications.

Internal gain control allows output adjustment from 90dB to a maximum of 114dB at 10 feet.

SelecTone Speaker Amplifiers are used individually or as part of a plant-wide emergency notification system. The Model UTM Universal Tone Module, with 32 tones, or the TM33 Custom Tone Module is plugged into a single SelecTone Speaker Amplifier for stand-alone use or into a SelecTone Command Unit for plant-wide signaling.

For plant-wide signaling, a Connector Kit is installed into each SelecTone Speaker Amplifier and wired to a central controller, SelecTone Command Unit or CommCenter Digital Message Center. Command Units and CommCenters broadcast tones, voice messages, melodies and live public address to an unlimited number of SelecTone Speaker Amplifiers.

Applications for SelecTone include emergency warning, evacuation, start/dismissal, public address, and process control signaling.

---

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Standby Current</th>
<th>Decibels @ 10'</th>
<th>Decibels @ 1m</th>
</tr>
</thead>
<tbody>
<tr>
<td>302GCX</td>
<td>24VDC 50/60Hz</td>
<td>1.10 amps</td>
<td>0.03 amps</td>
<td>114</td>
<td>124</td>
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<tr>
<td>302GCX</td>
<td>24VDC 50/60Hz</td>
<td>2.50 amps</td>
<td>0.09 amps</td>
<td>114</td>
<td>124</td>
</tr>
<tr>
<td>302GCX</td>
<td>120VAC 50/60Hz</td>
<td>0.50 amps</td>
<td>0.13 amps</td>
<td>114</td>
<td>124</td>
</tr>
<tr>
<td>302GCX</td>
<td>240VAC 50/60Hz</td>
<td>0.20 amps</td>
<td>0.07 amps</td>
<td>114</td>
<td>124</td>
</tr>
</tbody>
</table>

*Final UL 1480 approval pending.*

---

**DESIGNED FOR USE IN HAZARDOUS LOCATIONS**

- Reliable, solid-state circuitry
- Available in 24VAC/DC, 120VAC and 240VAC
- Built-in gain control
- Produces 90dB to 114dB @ 10' (100dB to 124dB @ 1m)
- UL* and cUL Listed, CSA Certified for indoor/outdoor use, CSFM Approved
- Type 4X enclosure
- External mounting tabs

*Final UL 1480 approval pending.*

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Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
HAZARDOUS LOCATION AUDIBLE SIGNALING DEVICE (302GCX)

**Replacement Parts**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amplifier Assembly</td>
<td>K200B683A-02</td>
</tr>
<tr>
<td>Voice Coil, Series C</td>
<td>K8593036A</td>
</tr>
<tr>
<td>Speaker Assembly</td>
<td>K8593083A</td>
</tr>
<tr>
<td>Transformer, 120VAC</td>
<td>K120B224D</td>
</tr>
<tr>
<td>Transformer, 240VAC</td>
<td>K120B232C</td>
</tr>
</tbody>
</table>

**Specifications**

- **Operating Temperature:** -31°F to 161°F (-35°C to 72°C)
- **Net Weight:**
  - 24V: 6.3 lbs. (2.9 kg)
  - 120V/240V: 7.6 lbs. (3.5 kg)
- **Shipping Weight:**
  - 24V: 7.4 lbs. (3.4 kg)
  - 120V/240V: 8.8 lbs. (4.0 kg)
- **Height:** 14.00” (356 mm)
- **Width:** 10.5” (266.7 mm)
- **Depth:** 11.0” (279 mm)

**How to Order**

- Specify model number and voltage
- Specify Tone Module for stand alone operation
  - Universal Tone Module (UTM)
  - Custom Tone Module (TM33)
- Specify Connector Kit for use in systems (Call factory for system design assistance)
  - Connector Kit (300CK)
  - Supervised Connector Kit (300CKS)
  - 25Vrms Connector Kit (AM25CK)
  - 70Vrms Connector Kit (AM70CK)
- Please refer to Model Number Index 302GCX beginning on page 379
SelecTone® Audible Signaling Devices

Models 54GC and 54GCB

Federal Signal’s Model 54GC and 54GCB SelecTone Speaker Amplifiers are designed to provide crisp, clear tones in supervised alarm notification systems.

In the Models 54GC, a short, folded re-entrant horn is interposed between the diaphragm and surrounding air space. This design provides optimal dB output and very good frequency response.

The 54GC is UL Listed. It has been designed, tested and approved for use in Type 3R applications. When installed with the Model WB Weatherproof Backbox, the 54GC is suitable for use outdoors. The compact size and attractive appearance of the Model 54GC makes it ideal for use in offices, hallways, reception and plant areas where ambient noise levels are not exceedingly high, and even sound dispersal is desired.

The 54GCB is designed for areas without high ambient noise levels, such as offices, hallways and reception areas. The baffle allows the four-inch speaker to be installed easily in any suspended ceiling plenum with a Model R4NB backbox. The white grill of the 54GCB is attractive in most decors.

Internal gain control allows output adjustment from 64dB to a maximum of 88dB at 10 feet.

SelecTone Speaker Amplifiers are used individually or as part of a plant-wide emergency notification system. The Model UTM Universal Tone Module, with 32 tones is plugged into a single SelecTone Speaker Amplifier for stand-alone use or into a SelecTone Command Unit for plant-wide signaling.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Sys. Standby Current</th>
<th>Decibels @ 10'</th>
<th>Decibels @ 1m</th>
</tr>
</thead>
<tbody>
<tr>
<td>54GC</td>
<td>24VDC</td>
<td>0.07 amps</td>
<td>0.025 amps</td>
<td>88</td>
<td>98</td>
</tr>
<tr>
<td>54GCB</td>
<td>24VDC</td>
<td>0.07 amps</td>
<td>0.025 amps</td>
<td>88</td>
<td>98</td>
</tr>
</tbody>
</table>

DESIGNED FOR INDOOR AND OUTDOOR USE

- Solid-state circuitry
- Available in 24VDC
- Built-in gain control
- Produces 64dB to 88dB @ 10' (74dB to 98dB @ 1m)
- UL and cUL Listed, CSA Certified, CSFM Approved
- Flush or surface mount
- Type 3R enclosure
- 4-wire supervisable power circuit
SELECTONE® AUDIBLE SIGNALING DEVICE (54GC & 54GCB)

**SPECIFICATIONS**

**54GC**
- Operating Temperature: -31°F to 161°F
- Net Weight: 1.7 lbs.
- Shipping Weight: 2.2 lbs.
- Height: 4.5”
- Width: 4.50”
- Depth: 3.44”

**54GCB**
- Operating Temperature: -31°F to 161°F
- Net Weight: 1.6 lbs.
- Shipping Weight: 2.3 lbs.
- Depth: 2.53”
- Diameter: 7.23”

**HOW TO ORDER**
- Specify Model
- Specify Tone Module for stand alone operation
  - Universal Tone Module (UTM)
- Specify Connector Kit for use in systems. (Call factory for system design assistance.)
  - Connector Kit (300CK)
  - Supervised Connector Kit (300CKS)
  - 25VRMS Connector Kit (AM25CK)
- Specify Options:
  - Knock-out Back Box (NBL)
  - Weatherproof Back Box (WB)
  - Grille (FG)
  - Flush Mount Back Box (FBL)
  - Ceiling Back Box (R4NB)
- Please refer to Model Number Index 54GC/54GCB beginning on page 383
PLANT-WIDE WARNING AND VOICE COMMUNICATION

- Built-in gain control
- 304GC produces 86dB to 110dB @ 10’ (96dB to 120dB @ 1m)
- 314GC produces 90dB to 114dB @ 10’ (100dB to 124dB @ 1m)
- Available in 24VDC
- UL and cUL Listed, CSFM Approved
- Type 3R enclosure
- 4-wire supervisable power circuit

SelecTone® Audible Signaling Device

Models 304GC and 314GC

The Federal Signal Models 304GC and 314GC Amplified Speakers are designed to produce crisp, clear tones in supervised alarm notification systems. These amplified speakers can broadcast tones generated by a tone card installed into the speaker (the plug-in 32-tone UTM) or by a central tone source in a voice evacuation or paging system. When live public address or voice messages are required, plug-in Connector Cards (AM25CK or AM70CK) interface with the VRMS of the EVAC panel.

Both speaker amplifiers are compatible with fire alarm and suppression supervised control panels and power boosters.

The speaker cone and projector are constructed of rugged spun aluminum. The solid-state amplifier circuit is protected in a die-cast aluminum housing. Dust- and moisture-proof gaskets provide protection from the elements. All external surfaces are sealed with gray powder coat paint. The 304GC is easily installed on any flat surface.

Both the 304GC and 314GC are UL and cUL listed for use indoors and out.

The rugged construction and high output of the Models 304GC and 314GC make it ideal for use in harsh environments with high ambient noise levels. The 304GC produces up to 110dB at ten feet (120dB at 1 meter) and the 314GC produces up to 114dB at ten feet (124dB at 1 meter). Both models feature an internal gain control for adjustment to the suit area.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Sys. Standby Current</th>
<th>Decibels @ 10’</th>
<th>Decibels @ 1m</th>
</tr>
</thead>
<tbody>
<tr>
<td>304GC</td>
<td>24VDC</td>
<td>0.55 amps</td>
<td>0.06 amps</td>
<td>110</td>
<td>120</td>
</tr>
<tr>
<td>314GC</td>
<td>24VDC</td>
<td>1.10 amps</td>
<td>0.03 amps</td>
<td>114</td>
<td>124</td>
</tr>
</tbody>
</table>

Courtesy of Steven Engineering, Inc. - 230 Ryan Way, South San Francisco, CA 94080-6370 - Main Office: (650) 588-9200 - Outside Local Area: (800) 258-9200 - www.stevenengineering.com
### Replacement Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>304GC</strong></td>
<td></td>
</tr>
<tr>
<td>Amplifier Assembly</td>
<td>K200B528C-02</td>
</tr>
<tr>
<td>Voice Coil</td>
<td>K110A703</td>
</tr>
<tr>
<td>Speaker Assembly</td>
<td>K8593040A</td>
</tr>
<tr>
<td><strong>314GC</strong></td>
<td></td>
</tr>
<tr>
<td>Amplifier Assembly</td>
<td>K200B683A-03</td>
</tr>
<tr>
<td>Voice Coil</td>
<td>K288A146A</td>
</tr>
<tr>
<td>Speaker Assembly</td>
<td>K8593041A</td>
</tr>
</tbody>
</table>

### Specifications

#### 304GC
- **Operating Temperature:** -31°F to 161°F
- **Net Weight:** 4.5 lbs.
- **Shipping Weight:** 5.4 lbs.
- **Height:** 12.25”
- **Width:** 7.94”
- **Depth:** 8.25”

#### 314GC
- **Operating Temperature:** -31°F to 161°F
- **Net Weight:** 5.9 lbs.
- **Shipping Weight:** 7.3 lbs.
- **Height:** 14.0”
- **Width:** 10.5”
- **Depth:** 11.0”

### How to Order
- Specify model number and voltage
- Tone Card (UTM)
- Specify Connector Kit for use in systems
  - Connector Kit (300CK)
  - Supervised Connector Kit (300CKS)
  - 25VRMS Connector Kit (AM25CK)
- Please refer to Model Number Index 304GC/314GC beginning on page 383
SelecTone®
Explosion-Proof
Audible Signaling
Device

Models 304X and 314X

The Federal Signal Model 304X and 314X Explosion Proof Amplified Speakers are designed to produce crisp, clear tones in supervised alarm notification systems. Both models are compatible with fire alarm, voice evacuation, suppression supervised control panels, and power boosters.

These amplified speakers can broadcast tones generated by a Tone Card installed into the speaker (the plug-in 32-tone UTM) or by a central tone source in a voice evacuation or paging system. When live public address or voice messages are required, plug-in Connector Cards (AM25CK or AM70CK) interface with the VRMS of the EVAC panel.

The speaker cone and projector are constructed of rugged spun aluminum. The solid-state amplifier circuit is protected in a die-cast aluminum housing. Dust- and moisture-proof gaskets provide protection from the elements. All external surfaces are sealed with gray powder coat paint. A heavy-duty swivel mount bracket allows the installer to direct the output effectively.

The 304X and 314X are UL Listed for Class I, Division 1, Groups B, C & D.

The rugged construction and high output of the Model 304X and 314X make them ideal for use in harsh environments with high ambient noise levels. The 304X produces up to 104dB at ten feet (114dB @ 1 meter) and the 314X produces up to 114dB at ten feet (124dB @ 1 meter). Both models feature an internal gain control for adjustment to suit area.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Sys. Standby Current</th>
<th>Decibels @ 10’</th>
<th>Decibels @ 1m</th>
</tr>
</thead>
<tbody>
<tr>
<td>304X</td>
<td>24VDC</td>
<td>0.55 amps</td>
<td>0.06 amps</td>
<td>104</td>
<td>114</td>
</tr>
<tr>
<td>314X</td>
<td>24VDC</td>
<td>1.1 amps</td>
<td>0.03 amps</td>
<td>114</td>
<td>124</td>
</tr>
</tbody>
</table>
EXPLOSION-PROOF AUDIBLE SIGNALING DEVICE (304X/314X)

HOW TO ORDER

- Specify model number
- Tone Card (UTM)
- Specify Connector Kit for use in systems
  - Connector Kit (300CK)
  - Supervised Connector Kit (300CKS)
  - 25 VRMS Connector Kit (AM25CK)

- Please refer to Model Number Index
  304X/314X beginning on page 383

SPECIFICATIONS

**304X**
- Operating Temperature: -31°F to 161°F (-35°C to 72°C)
- Net Weight: 17.15 lbs. (7.78 kg)
- Shipping Weight: 18.8 lbs. (8.53 kg)
- Height: 14.75" (375 mm)
- Width: 8.88" (225 mm)
- Depth: 14.75" (375 mm)

**314X**
- Operating Temperature: -31°F to 161°F (-35°C to 72°C)
- Net Weight: 23 lbs. (10.4 kg)
- Shipping Weight: 26 lbs. (11.8 kg)
- Height: 18.56" (471 mm)
- Width: 16.38" (416 mm)
- Depth: 20.75" (528 mm)

REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>304X</strong></td>
<td></td>
</tr>
<tr>
<td>Amplifier</td>
<td>K2001111A</td>
</tr>
<tr>
<td>Driver</td>
<td>K132139A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>314X</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Amplifier</td>
<td>K200C511-03</td>
</tr>
<tr>
<td>Driver</td>
<td>K132140B</td>
</tr>
</tbody>
</table>
**Selectone® Hazardous Location Audible Signaling Device**

Models 304GCX and 314GCX

Federal Signal Models 304GCX and 314GCX Hazardous Location Amplified Speakers are designed to produce crisp, clear tones in supervised alarm notification systems. Both speakers amplifiers are compatible with fire alarm, voice evacuation, suppression supervised control panels and power boosters.

These amplified speakers can broadcast tones generated by a Tone Card installed into the speaker (the plug-in 32-tone UTM) or by a central tone source in a voice evacuation or paging system. When live public address or voice messages are required, plug-in Connector Cards (AM25CK or AM70CK) interface with the audio output of the EVAC panel.

The speaker cone and projector are constructed of rugged spun aluminum. The solid-state amplifier circuit is protected in a die-cast aluminum housing. Dust and moisture-proof gaskets provide protection from the elements. All external surfaces are sealed with gray powder coat paint. The 304GCX and 314GCX are easily installed with external mounting tabs.

The 304GCX and 314GCX are UL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F & G; and Class III.

The rugged construction and high output of the Model 304GCX and 314GCX make it ideal for use in harsh environments with high ambient noise levels. The 304GCX produces up to 110dB at ten feet (120dB at 1 meter) and the 314GCX produces up to 114dB at ten feet (124dB at 1 meter). Both models feature an internal gain control for adjustment to suit area.

**DESIGNED FOR USE IN HAZARDOUS LOCATIONS**

- Reliable, solid-state circuitry
- Available in 24VDC
- Built-in gain control
- 304GCX produces 86dB to 110dB @ 10’ (96dB to 120dB @ 1m)
- 314GCX produces 90db to 114dB @10’ (100dB to 124dB @ 1m)
- UL Listed, cUL Listed for indoor/outdoor use, CSFM Approved
- Type 4X enclosure
- External mounting tabs
- 4-wire supervisable power circuit

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Operating Current</th>
<th>Standby Current</th>
<th>Decibels @ 10’</th>
<th>Decibels @ 1m</th>
</tr>
</thead>
<tbody>
<tr>
<td>304GCX</td>
<td>24VDC</td>
<td>0.55 amps</td>
<td>0.06 amps</td>
<td>110</td>
<td>120</td>
</tr>
<tr>
<td>314GCX</td>
<td>24VDC</td>
<td>1.10 amps</td>
<td>0.03 amps</td>
<td>114</td>
<td>124</td>
</tr>
</tbody>
</table>

By: Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
HAZARDOUS LOCATION AUDIBLE SIGNALING DEVICE (304GCX/314GCX)

**SPECIFICATIONS**

### 304GCX

- **Operating Temperature:** -31°F to 161°F
- **Net Weight:** 5.9 lbs.
- **Shipping Weight:** 6.5 lbs.
- **Height:** 12.25”
- **Width:** 7.94”
- **Depth:** 8.25”

### 314GCX

- **Operating Temperature:** -31°F to 161°F
- **Net Weight:** 6.3 lbs.
- **Shipping Weight:** 7.4 lbs.
- **Height:** 14.00”
- **Width:** 10.5”
- **Depth:** 11.0”

**HOW TO ORDER**

- Specify model number and voltage
- Tone Card (UTM)
- Specify Connector Kit for use in systems: Connector Kit (300CK) Supervised Connector Kit (300CKS) 25VRMS Connector Kit (AM25CK)
- Please refer to Model Number Index 304GCX/314GCX beginning on page 383

**REPLACEMENT PARTS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>304GCX</strong></td>
<td></td>
</tr>
<tr>
<td>Amplifier Assembly</td>
<td>K200B683A-02</td>
</tr>
<tr>
<td>Voice Coil, Series C</td>
<td>K8593035A</td>
</tr>
<tr>
<td>Speaker Assembly</td>
<td>K8593082A</td>
</tr>
<tr>
<td><strong>314GCX</strong></td>
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<tr>
<td>Amplifier Assembly</td>
<td>K200B683A-04</td>
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<tr>
<td>Voice Coil, Series C</td>
<td>K8593036A</td>
</tr>
<tr>
<td>Speaker Assembly</td>
<td>K8593083A</td>
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