

Acoustic-Electric Preamps

Ovation®

OP-30
OP-40
OP-50

Owner's Guide

KAMAN

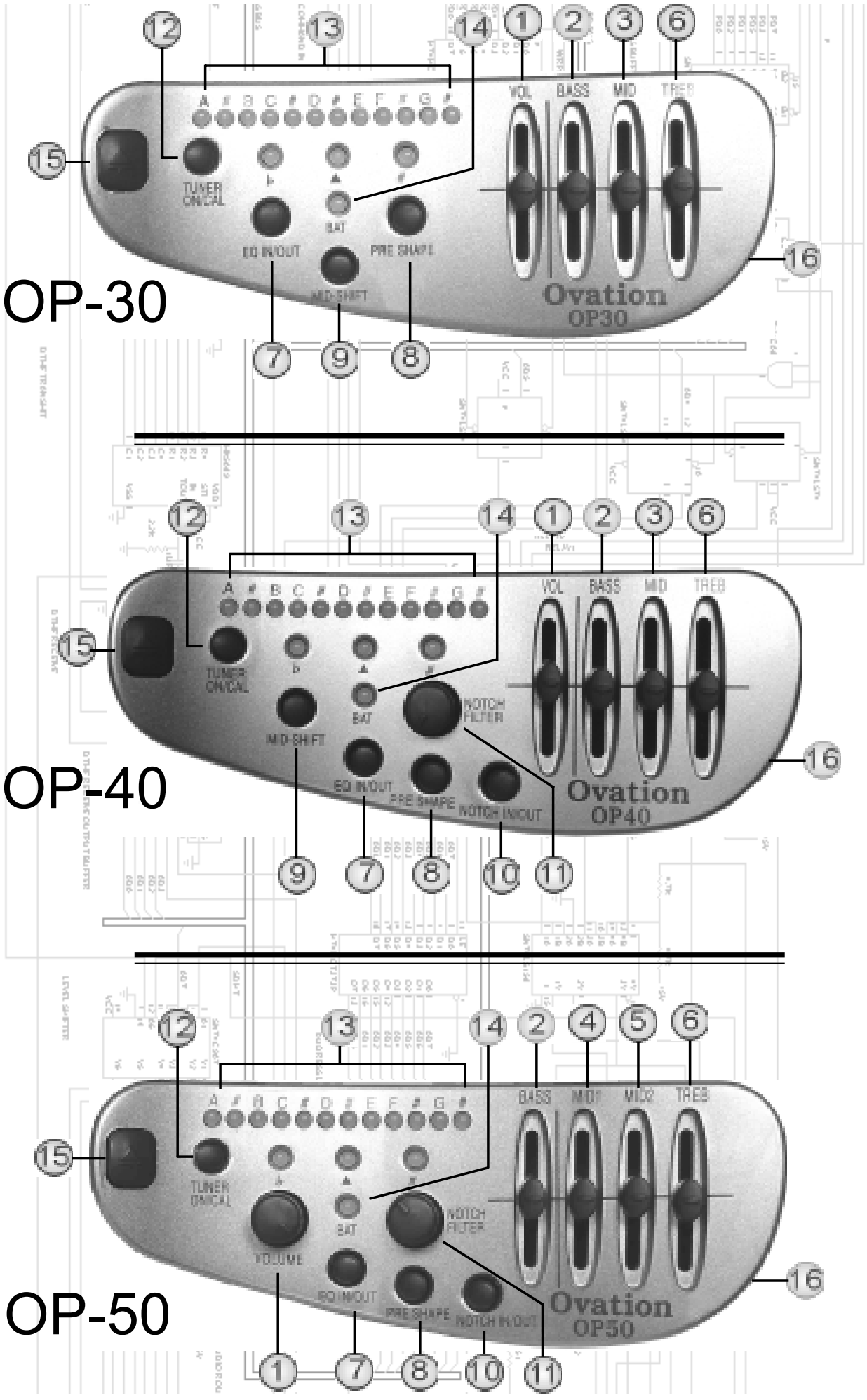
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Your new Ovation guitar is equipped with the latest in a series of preamps that have provided musicians with leading-edge performance designed specifically to complement the unique character of Ovation guitars.

Please refer to the appropriate diagram on the following pages to help acquaint yourself with the features and functions of your instrument.

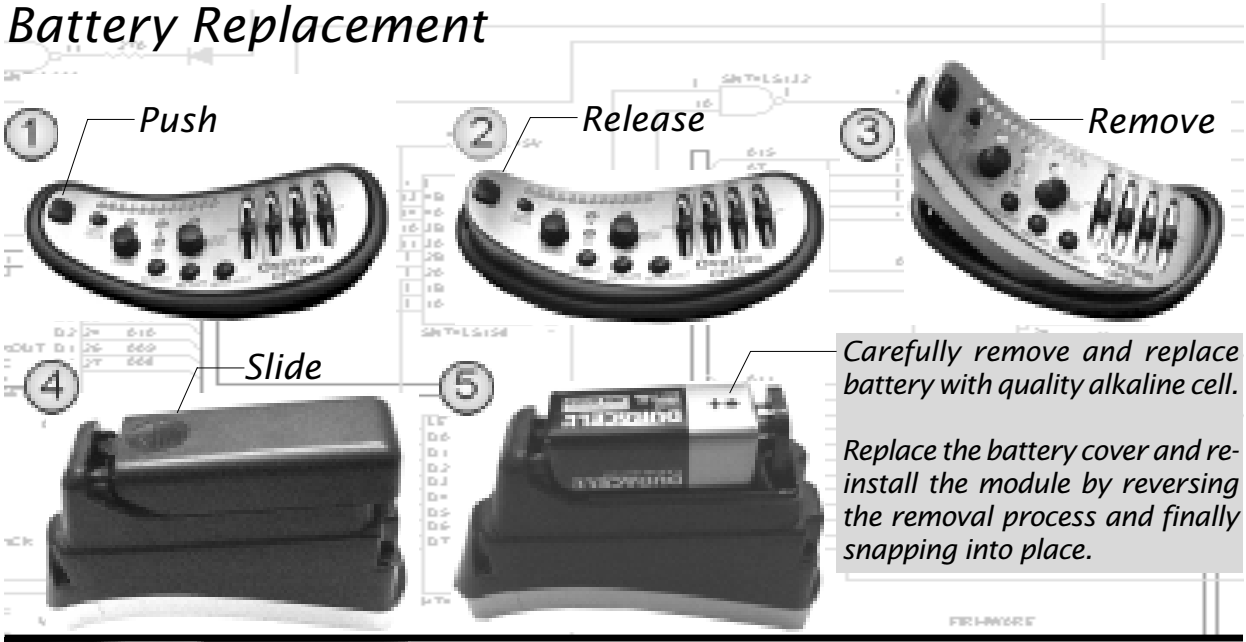
①	*VOLUME:*	*Adjusts the overall output level of the preamp.*
②	*BASS:*	*Adds or subtracts the low frequency content of the signal.*
③	*MID:*	*Controls the amount of a broad range of frequencies in the middle of the sound spectrum of the guitar.*
④	*MID1:*	*Controls the amount of power in lower middle frequencies.*
⑤	*MID2:*	*Controls the amount of power in upper middle frequencies*
⑥	*TREBLE:*	*Adds or subtracts the high frequency content of the signal.*
⑦	*EQ IN/OUT:*	*Engages or bypasses the EQ controls.*
⑧	*PRESHAPE:*	*Engages or bypasses a fixed tone enhancement circuit.*
⑨	*MID SHIFT:*	*Moves the center frequency of the midrange control.*
⑩	*NOTCH SW:*	*Enables or disables the Notch Filter (see ⑪).*
⑪	*NOTCH POT:*	*This control is used to tune a very sharp and deep filter designed to reduce feedback when using high-gain amplification. At a high volume level, your guitar may "feedback" causing a low, steady tone to come from your speakers. With the notch filter enabled, slowly tune this control to the feedback frequency (CW=higher frequency, CCW=lower frequency) until the feedback is reduced.*
⑫	*TUNE/CAL:*	*This switch turns on the built-in tuner for approximately 60 seconds. Press a second time while playing a note and this pitch will become the calibration point for operation (handy when tuning to an "out-of tune" instrument). During the tuning operation the guitar output will be muted. If you finish tuning prior to the 60 second timer returning the tuner to idle (and un-mute), you may press this button again to manually return the preamp to normal operation.*
⑬	*TUNER LEDs:*	*These LEDs indicate the note being played and whether it's sharp or flat. Tune string up or down until the ▲ LED lights.*
⑭	*BAT:*	*When steadily illuminated, indicates that the battery is low and should be changed soon. Also intermittently flashes when plug is inserted into jack to confirm normal operation.*
⑮	*RELEASE:*	*Pressing this button will release the module from its receptacle. Use this button to access to the battery compartment.*
⑯	*MODULE:*	*The preamp is housed within this module and mates to the receptacle mounted in the body. Remove this module to gain access to the battery compartment. See the illustration on the last page for instructions on replacing the battery.*

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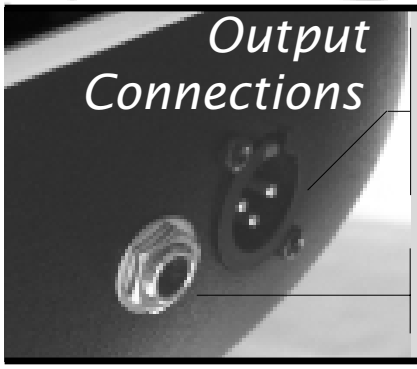
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Battery Replacement



Carefully remove and replace battery with quality alkaline cell.

Replace the battery cover and re-install the module by reversing the removal process and finally snapping into place.



Output Connections

The XLR jack on the OP-50 gives you a professional, balanced-line connection to mixers and high-end acoustic amps. The phantom power capability allows your mixer to power the preamp. Any XLR cable with a ground-to-shell connection (Ovation P/N 9658-0) is required for the auto power-on function. A "dummy plug" (Ovation P/N 9659-0) inserted into the ¼" jack can be used instead, if the proper XLR cable is not available.

The ¼" jack on all models provides an unbalanced, line-level connection to most any amplification system. Inserting a plug into this jack also turns on the preamp system. Please note that the tuner is functional without any connection.

Specifications:

Characteristic	OP-50	OP-40	OP-30
Battery Voltage:	9VDC	9VDC	9VDC
Idle Current:	6mA	6mA	5.1mA
Sleep Current	40µA	40µA	n/a
Battery Low On:	6.7VDC	6.7VDC	6.7VDC
Max. Output @ 1kHz	6VP-P	6VP-P	6VP-P
THD @ 1VP-P Input	<0.2%	<0.2%	<0.1%
S/N Ratio	>95dB	>95dB	>92dB
Frequency Response (-3dB):	40Hz-84kHz	27Hz-90kHz	50Hz-100kHz
Preshape EQ:	+3dB@70Hz -6dB@500Hz +3dB@9kHz	+3dB@70Hz -6dB@500Hz +3dB@9kHz	+3dB@60Hz -6dB@390Hz +3dB@10kHz
Bass EQ Response:	±13dB@87Hz	±11dB@84Hz	±9dB@60Hz
Mid EQ Response:	n/a	±6dB@900Hz	±6dB@970Hz
Mid Shift Response:	n/a	±6dB@400Hz	±11dB@450Hz
Mid 1 Response:	±13dB@580Hz	n/a	n/a
Mid 2 Response:	±10dB@6.7kHz	n/a	n/a
Treble Response:	±10dB@12kHz	±12dB@8.4kHz	±12dB@15kHz
Notch Range:	24-264Hz	24-264Hz	n/a
Notch Depth:	-32dB	-32dB	n/a
Tuner Accuracy:	<1 cent	<1 cent	<1 cent
Tuner Auto-Off:	1 minute	1 minute	1 minute

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Ovation

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