



K2060E030 Shaker Kit Selection and Quick Start

This shipment contains _____ K2060E030 Shaker kit(s).
Each kit includes one of each item in this section as noted.

Job # _____

Customer _____



_____ **2060E** Shaker mounted on trunnion base with EasyTurn™ handles. Typically shipped in Pelican case (2060E-CASE)

_____ **2100E21-400** Amplifier with cable to shaker (8 ft with 8 Amp inline fuse) and power cord. Used for 30 lbf output
120 V 220 V
_____ Power Plug type

_____ **2000X03** Shaker accessory kit. Includes:

1	Stinger Kit 2155G12 - 3/32"
2	Stinger Kit 2150G12 - 1/16"
3	Trunnion Bolts - Low Profile
4	10-32 Adaptor
5	Chuck Adaptor ^[1]
6	Stinger Thumb Nuts (qty 6)
7	Chuck and Collet Kit - 1/32", 1/16", 3/32", 1/8" collets
8	Spare Fuse (shaker) ^[2]
9	K2160G - Piano Wire Stinger Kit
10	Wrench - 7/16"
11	Wrench - 3/8"
12	Wrench - 3/8"
13	Hex Wrench - 1/4"

[1] Typically pre-installed on shaker

[2] Spare fuses (amplifier) - when supplied as a system



Optional Amplifier



_____ **2050E05** Optional amplifier with cable to shaker (8 ft with 8 Amp inline fuse) and power cord. Also provides 30 lbf output, but offers selectable voltage or current mode
120 V 220 V
_____ Power Plug type

Available Accessories/Options

- _____ 2050A Lateral Excitation Stand
- _____ PCB 288D01 ICP® Impedance Head
- _____ PCB 208 Series ICP® Force Sensors. Indicate Model: _____
- _____ Type 2120Gxx threaded (10-32) stainless steel rod stingers. Circle length: 9" 12" 18"
- _____ Type 2125Gxx threaded (1/4-28) stainless steel rod stingers. Circle length: 9" 12" 18"
- _____ Model 8032S Air Ride Test Support
- _____ 2060E-CASE Heavy Duty Shipping Case



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Connecting the K2060E030 shaker kit

1. Connect shaker cable to amplifier (see below table)

Shaker Cable Wire Color	Function	2050E05	2100E21-400
Red	Armature	OUT / OUT	OUT / SHAKER +
Orange & Blue	Armature	RET / RET	RET / SHAKER -
White/Black	Interlock	+ / +	+ / Interlock +
White	Interlock	INT / INT	INT / Interlock -
Black	Ground	GND / GND	GND / Earth Ground

2. Connect the shaker cable to shaker.
3. Power amplifier with included power cable
4. Connect input signal via the BNC connector labeled “Signal Input” on the back of the 2100E21-400 or to the BNC connector labeled “AC” on the back of the 2050E05 amplifier.
5. Turn on master power switch and position gain knob to desired setting. **Note:** Master power switch is located on the back of the 2100E21-400 amplifier and on the front of the 2050E05 amplifier.

2100E21-400 User Tips

- As a safety measure, if the gain knob is not in the “mute” position when power is turned on, it will need to be turned to “mute” before amplifier can be used.
- Output clipping error: Anytime the output waveform is clipped due to too much gain or the input amplitude being too high, the LCD screen will flash the “output clipping” message until the clipping stops. This helps avoid unwanted output distortion. During clipping, all menus and buttons remain functional.
- Output interlock: Anytime an error or a fault condition occurs while the amplifier is on, the amplifier will automatically mute and a message will be displayed on the LCD. Consult the “*Troubleshooting Guide*” in the manual to fix any problem that caused the error, and press F1 to clear the error message. If the gain knob is not turned to “mute,” it will have to be turned to “mute” first before the amplifier can be turned back on.

2050E05 User Tips

- Trip indicator flashing: The “TRIP” indicator flashes if the amplifier has been turned on with the gain out of the reset position or if the external (fault open) interlock is open. The amplifier output is inhibited during this interlock condition. The indicator also flashes during a heat sink over-temperature condition. The amplifier output will be compressed if the overheat condition persists but will automatically restore itself after the heat sink temperature drops.
- The output peak voltage bar graph indicates the peak voltage applied to the shaker and will indicate voltage clipping limits and output signal level. It can also be useful in detecting output open circuit problems. The output RMS current level graph indicates the amount of current being delivered to the shaker and can be used to prevent overdriving and subsequent damage to connected loads.

[Videos](#) and [FAQ guides](#) are available online. Feel free to contact The Modal Shop for support at info@modalshop.com or +1 513-351-9919.