

RICOCHET SIX HEAD REMOTE POWER SUPPLY



The cable management and programming features of RICOCHET power supply allow for faster and cleaner installations while enhancing the choice of flash patterns and strobe head selection.

STROBE HEAD SELECTION

The RICOCHET™ strobe power supply offers what few power supplies can offer, true pair control and selection of strobe outputs without special wiring combinations. This feature allows for faster installations.

SIMPLE PATTERN SELECTION

The microprocessor based design, offers the choice of ten flash patterns at the touch of a button. This feature along with the strobe head selection feature, allows any flash pattern to be used with any strobe head combination. Special wiring is not required!

PROGRAM CLONING

This unique feature allows the installer to instantly download the programming of a RICOCHET Power Supply into another RICOCHET Power Supply. This is accomplished by using the cloning cable (Model #413207) as shown below in *Figure 1*. During cloning, the installer needs to have power connected to only one of the power supplies. The program is cloned into the second unit by briefly depressing the (A- OUT PAIR) button. This feature will allow the installer to quickly duplicate the programming to

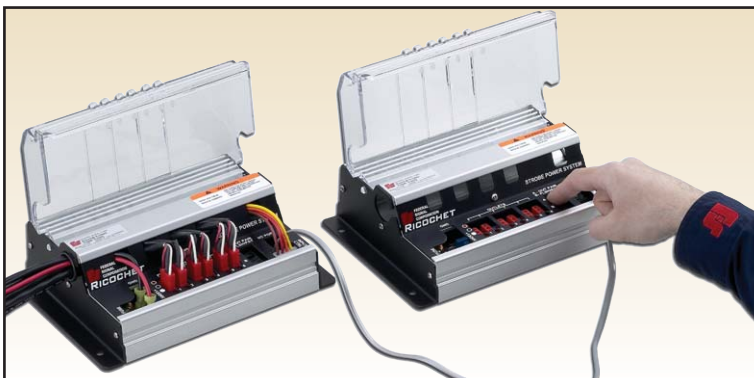


Figure 1 – Multiple systems can be programmed and ready for installation within minutes by using the Ricochet cloning cable.

QUICK REFERENCE

FEATURES

- Strobe Head Selection; Eliminates combination wiring.
- Ten Flash Patterns; Pattern selection at the touch of a button.
- Program Cloning; Duplicate programming instantly.
- Three Prioritized Operating Modes; Compliments progressive slide switch operation.
- Microprocessor Design; Assures reliable and quiet operation.
- Adaptive Anti-Neon Circuitry; For maximum efficiency and reliability of the system.
- Industry Pinning Standard and Gender.
- Ground-Pin Shielding; Provides maximum RFI suppression.
- Cable Management/Protective Cover with LED light tubes; Cleaner installation.
- Thermal Management Housing.
- 15-watts per output/90-watts total.
- 12-24 VDC operation.
- Five year warranty.

APPLICATIONS

- Undercover police vehicles
- Vehicles with roof-mounted lighting systems
- Marked "slick-top" vehicles

RELATED PRODUCTS

Model

- # 413240 (DS1)-Deck Strobes
- # 413245 (DS2)
- # 413250 (GS1)-Grille Strobes
- # 413255 (GS2)
- # 413260 (MS1-FD)-Mirror Strobes
- # 413261 (MS1-GM)
- # 413270 (MS2-FD)
- # 413271 (MS2-GM)

multiple units without repeating any special wiring procedures. Future programming changes are also easily accommodated by this feature.

PRIORITIZED OPERATING MODES

RICOCHET strobe power supply was designed to provide three modes of operation. Mode 3 will have top priority while modes 2 and 1 will operate in subsequent order. Each mode is prioritized to assure proper selection and programming of the desired flash patterns. Any combination of strobe heads and flash patterns may be chosen for all three modes. The 4th control wire is a 50% power reduction that may be used with any mode.

ADAPTIVE ANTI-NEON CIRCUITRY

The microprocessor design allows it to monitor the operation of the power supply and the firing of the strobe heads. If any strobe head begins to exhibit extended firing cycles, the RICOCHET will adapt to maintain maximum performance. If the strobe heads continue to degrade then the affected outputs will be shut off. This feature demonstrates the RICOCHETS intelligence to monitor and adjust its operation instead of using preset parameters.

INDUSTRY PINNING STANDARD

The common industry pinning standard is used with the RICOCHET Power Supply. Color-coding, to assure proper installation, is shown on the faceplate as referenced on Figure 2 and 7.

GROUND PIN SHIELDING

Properly grounding shielded cable used with any power supply is critical to suppress RF noise. RICOCHET eliminates the need to externally ground the cable shielding to the chassis of the power supply.

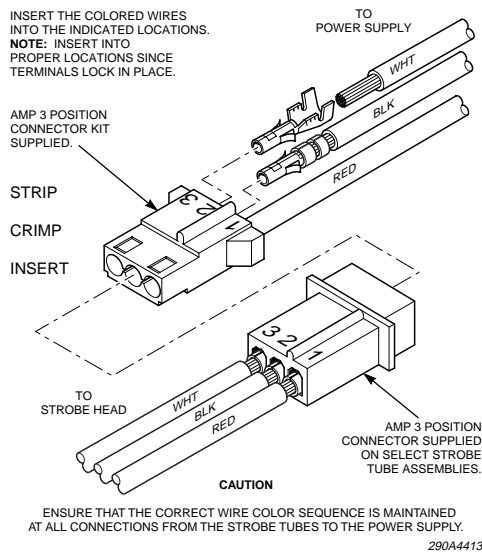


Figure 2 – Advanced electrical design assures proper grounding of the cable shielding through the ground pin connector. Black shielded cables with red connectors are the trademarks of the Ricochet Power Supply System.

The RICOCHET strobe cable is properly grounded by connecting the cable drain wire to the ground pin of the cable connector. This features assures proper installation and improves the integrity of the power supply system.

CABLE MANAGEMENT SYSTEM

The RICOCHET cable loom offers cable management unlike any other power supply. Cables are routed through the cable loom into either side of the power supply as shown in Figure 3.



Figure 3 – Cables can be routed through either side of Ricochet.

After the cables are installed, simply slide the loom back into place and secure loom. The protective cover may now be snap-locked in place assuring that the faceplate, cables and control wires are protected as shown in Figure 4 and 5.

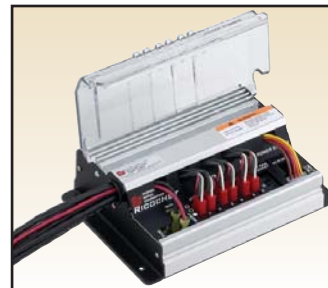


Figure 4 – Ricochets cable loom allows for cleaner installations.

LEDs located on the front panel magnifies these LEDs once the protective cover is locked into place as shown in Figure 5 and 6.

The strobe pair selection and flash patterns are simulated through the LED Light Tube

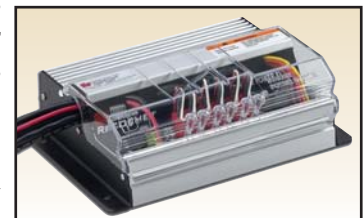


Figure 5 – The protective cover guards the cables and connectors.

THERMAL MANAGEMENT

The mechanical design was developed to provide thermal management of the flash capacitors. The finned

aluminum housing allows each of the three flash capacitors to dissipate their heat evenly and efficiently.



Figure 6 – LEDs simulate flash patterns and strobe head selections.

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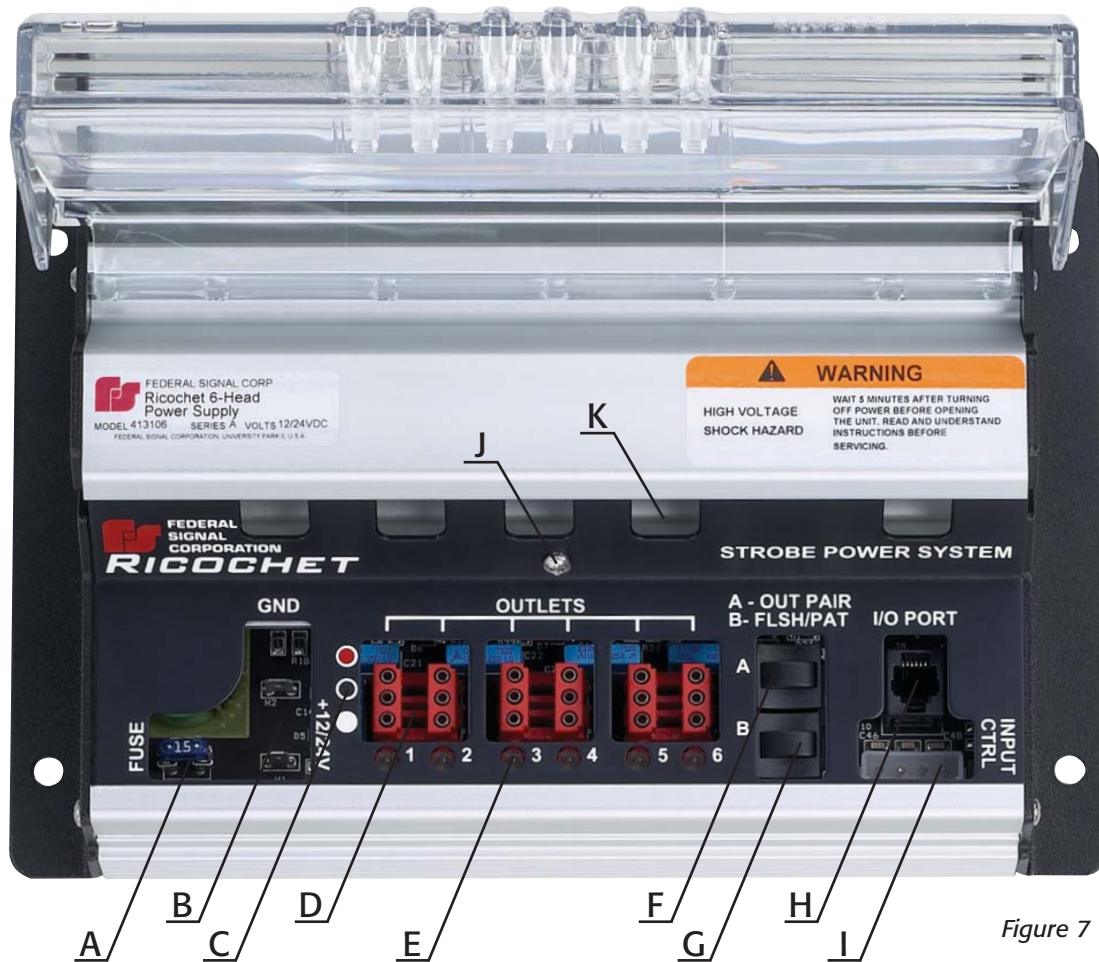


Figure 7

FEATURES OF RICOCHET:

- A. 15 Amp Replaceable Fuse
- B. Positive and Ground Terminals 12/24V
- C. Pin Order Legend - Allows for proper installation
- D. PC Board Mounted Strobe Head (15-watts per head)
- E. LED Indicator - Illustrates flash patterns and strobe head selection
- F. Outlet Pair Selector - Allows for touch-button programming and cloning
- G. Flash Pattern Selector - Allows for touch-button programming of ten flash patterns
- H. Input/Output Port - Used to clone program into other Ricochets
- I. Input Control Connector - Controls three modes of operation and 50% power reduction
- J. Face Plate Screw
- K. Cable Port - Cable management loom

RICOCHET FLASH PATTERNS:

- | | |
|-----------|-------------|
| 0. Null | 6. Ricochet |
| 1. Double | 7. Double-2 |
| 2. Triple | 8. Triple-2 |
| 3. Quad | 9. Sweep |
| 4. Action | 10. Quad-2 |
| 5. Random | |

COMPETITIVE FEATURES OF RICOCHET

- **Flash Capacitors** – The RICOCHET Six Head Power Supply has three flash capacitors instead of two. This allows the firing only one strobe head per capacitor and prevents overpowering a strobe head if there is a failure of one in the pair.
- **Heat Sinking** – Each of the three capacitors are thermally managed by the unique design of the RICOCHET housing. Dissipating heat evenly and efficiently is an important feature of a power supply system.
- **Cable Management/Protective Cover** – RICOCHETS cable loom allows the installer to create cleaner and more durable installations. The protective cover prevents the cables and connectors from being damaged by other items in the trunk of a vehicle. RICOCHET uses the industry pinning standard.
- **Touch Button Programming** – All flash patterns and strobe head selections are chosen by using the programming buttons. This feature allows for true pair selection and eliminates the need for special wiring combinations to achieve the desired patterns. This feature also accommodates any future changes without the need of rewiring the control inputs.
- **Ten Flash Patterns** – Each pattern may be used with any strobe head selection and any mode.
- **Program Cloning** – The installers may program a single RICOCHET to be cloned into an entire fleet of vehicles. This feature can significantly decrease installation time.
- **Maximum RFI Suppression** - RICOCHETS advanced design enables RFI suppression when used with the RICOCHET strobe cables. Connecting each cable drain wire to the ground pin connector performs this feature. Each factory pinned RICOCHET cable is assembled to provide maximum RFI suppression.
- **Five Year Warranty**

HOW TO ORDER

1. Specify Model.
 - 413106 Ricochet 6-Head power supply
2. Specify a strobe and auxiliary cable.
 - 413202 Adapter Cable (Qty. 2) 12" cables per kit
 - 413207 Cloning Cable
 - 413210 10 ft. Ricochet/Silver Series strobe cable
 - 413216 16 ft. Ricochet/Silver Series strobe cable
 - 413222 22 ft. Ricochet/Silver Series strobe cable
 - 413230 30 ft. Ricochet/Silver Series strobe cable
 - 413251 50 ft. Ricochet/Silver Series strobe cable
3. Specify a strobe head.
 - 413201-02 Amber strobe head
 - 413201-03 Blue strobe head
 - 413201-04 Red strobe head
 - 413201-05 Clear strobe head
4. Ricochet strobe systems/kits.
 - 413120 (1) Ricochet
(4) Clear corner strobes
(2) 10 ft. cables
(2) 22 ft. cables
 - 413121 (1) Ricochet
(4) Clear corner strobes
(2) 16 ft. cables
(2) 30 ft. cables
 - 413122 (1) Ricochet
(6) Clear corner strobes
(4) 10 ft. cables
(2) 22 ft. cables
 - 413123 500 ft. of strobe cable, connectors and Pins - Bulk Package (Approximate installation capacity of 5 police cruisers)
 - 413124 Connectors and pins - Bulk Package (Approximate installation capacity of 5 police cruisers)

SPECIFICATIONS

Input Voltage: Normal Operation12-30 VDC Reduced Operation7-12 VDC	Dimensions Length10.03" (25.5 cm) Width6.98" (17.7 cm) Height3.18" (8.1cm) Weight5.0 lbs. (2.27 kg)
Input Current @ 12 VDC: Operating 8.9 amps Standby6.5 mA	Mounting Centers.....9.3" (23.6 cm) x 5" (12.7 cm)
Fuse 15 amp Mini ATC Power Per Head15 watts (All patterns)	