6/c
.15

ELECTRIC TRIM SERVOS

BY MAC **MENZIMER AIRCRAFT COMPONENTS, INC.**

INTRODUCTION

MAC Trim Servos are high-quality, durable, electrically-operated servos designed specifically for homebuilt aircraft and robotic applications. They enable you to control trim surfaces and many other mechanisms on your aircraft without the use of bulky cables and pulleys. Their small size and light weight makes them easy to install inside elevators, ailerons, and rudders.

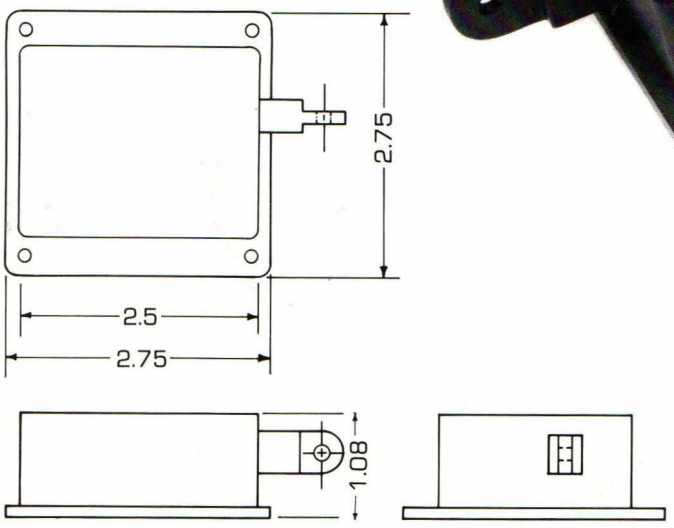
MAC servos operate on 12–14 volts D.C. Since their current requirement is very low, they can be installed using small 26 or 28 gage wire. When activated, they push or pull with tremendous force. This thrust is generated by means of a jackshaft, so the output shaft will lock in any position when the electrical power is turned off. They will also automatically stop when their travel limit is reached. Voltage polarity determines the direction of travel.

Two models of MAC servos are available, the MAC S4 and S6, which differ only in their output shaft travel. They can be purchased individually, or as a trim system which includes servo, rocker switch, 3-position indicator, clevis/pushrod kit, and instructions.

MAC, Inc. also has available a very high quality, teflon insulate 26 gage wire which is recommended for the system installation.

Engineered and Quality Constructed to Last the Lifetime of Your Aircraft.

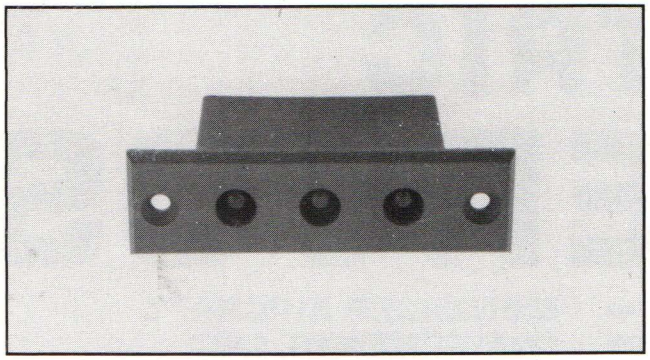
MAC S4
MAC S6



SPECIFICATIONS

Operating Voltage	12–14 VDC
No Load Current	130 MA
Max Thrust	40 lbs.
Weight	4 oz.
Output Shaft	Clevis (1/8" Pin Hole)
Output Shaft Movement (MAC S4)	.7 inch
Output Shaft Movement (MAC S6)	.95 inch
Output Travel Time (MAC S4)	8 seconds
Output Travel Time (MAC S6)	11 seconds
Construction Material	22C Fiber-Filled Nylon

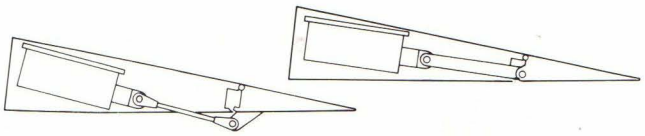
22MS25



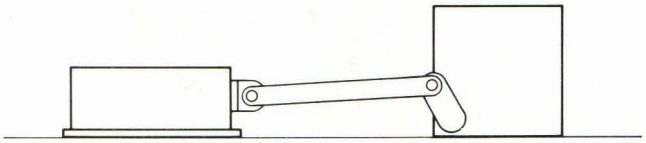
MAC 3-POSITION INDICATOR

The MAC 3-position indicator is an LED device designed to be installed in the cockpit to give an indication of the servo output shaft position. When the servo reaches its limit of travel in either direction, an end light will go on. The center light will go on when the servo runs through its center position. The indicator is connected to the servo by three small 26 or 28 gage wires. It is included with MAC trim systems or it can be purchased separately for your special needs. Any red, yellow and green LED color combinations can be ordered. This reliable solid state device can be very useful for applications such as landing gear or flap position indicator.

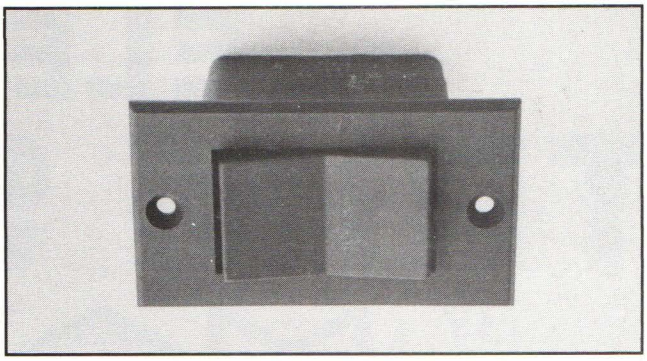
If no special LED colors are specified when ordering a trim system, the indicator will be a red-green-red combination.



Use a MAC S4 servo for installations requiring a short (½" to 1¼") control horn.



Use MAC servos to control almost any mechanism in your aircraft that would be controlled by cables or levers.

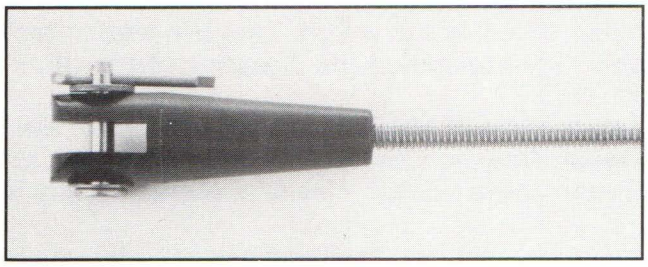


MAC ROCKER SWITCH

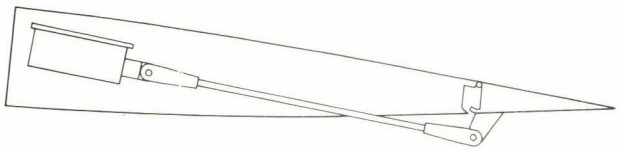
The MAC rocker switch is designed for use with the MAC trim system. It has a soft snap action in two directions and returns to a center off position. This unique switch is especially desirable for controlling aircraft trims. It is included with the MAC trim systems or can be purchased separately.

SPECIFICATIONS:

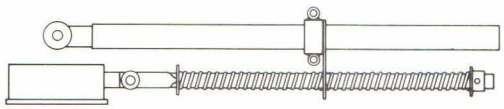
Maximum Current ..... 5 amps at 28 VDC
Mechanical Life ..... 30 Million Cycles
Housing Material ..... 1040 Nylon



Clevis/Pushrod kit contains 2 clevis forks, pushrod and hardware.



Use a MAC S6 servo for installations requiring a long (1¼" to 3") control horn.



Use a MAC S6 servo for most trim systems using a spring tension device.

NAME _____

ADDRESS _____

ORDER FORM

MAC

MENZIMER AIRCRAFT COMPONENTS, INC.
1537 Foothill Drive, Vista, California 92084
(619) 724-7557

METHOD OF PAYMENT: ☐ CHECK ENCLOSED ☐ MONEY ORDER ENCLOSED ☐ C.O.D. ☐ VISA ☐ MASTERCARD

CREDIT CARD # _____ Expiration Date _____

SIGNATURE **X** _____

- Add $2.00 shipping & handling to all orders.
- All domestic orders sent UPS unless otherwise specified.
- Add $1.90 for C.O.D. Orders.
- California residents add 6% sales tax.

☐ MAC S4 System (includes servo, switch, indicator, pushrod, & clevises)	99.95
☐ MAC S6 System (includes servo, switch, indicator, pushrod & clevises)	109.95
☐ 50 ft. of 26 gage quality teflon insulated wire	6.00
☐ 100 ft. of 26 gage quality teflon insulated wire	12.00
☐ MAC clevis/pushrod kit (2 clevis forks, 7" pushrod, hardware)	9.95
☐ MAC 3-position indicator (circle LED colors)	14.95
☐ MAC S4 servo only	69.95
☐ MAC S6 servo only	79.95
☐ MAC rocker switch	9.95