

NOW YOU CAN COMPETE!

ANNOUNCING THE NEW

GM GENI

MULTI-SERVO



■ Concentrated effort and precision engineering have combined to make available a servo suitable for all multi airplanes. The G.M. Geni has overcome all the difficulties which have plagued the R/C Modeler for years.

■ No expense has been spared to evolve a servo which will give positive and unfailing response to every command.

■ Strong enough for the fastest .59 powered model, yet light enough for an .049 multi. The Geni is a gem.

FEATURES: AN ALL NEW MOTOR DESIGNED SPECIFICALLY FOR THE G.M. GENI
SINTERED BEARINGS—LUBRICATED FOR LIFE.

SILVER BRUSHES AND SILVER COLLECTOR FOR MINIMUM "NOISE" AND MAXIMUM EFFICIENCY.

ARMATURE DYNAMICALLY AND STATICALLY BALANCED FOR SILK SMOOTH PERFORMANCE.

FOR MORE COMPACT POWER...THE ALL-NEW

GM GENI



Relayless Multi-Servo
Transistorized \$24.95
Relay Multi-Servo \$10.95

SPECIFICATIONS: SIZE: 1 3/4" x 1 1/8" x 3/4"
DRAIN: 180 to 450 MA.
WEIGHT: less than 2 oz.

LINEAR TRAVEL — 3/4"
TRANSIT (ARM TRAVEL TIME) ADJUSTABLE
POWER REQUIRED — 2.4 to 3.6 VOLTS D.C.
CONVERTIBLE TO SELF NEUTRALIZING OR TRIM
HEAVY DUTY TRANSISTOR AMPLIFIER

GOLD PLATED WIPER BOARDS FOR POSITIVE CONTINUOUS CONTACT
AN ALL NEW MOTOR DESIGNED SPECIFICALLY FOR THE G.M. GENI



PRICED LOW

Relayless Multi-Servo
Transistorized \$24.95

Relay Multi-Servo \$10.95

ORDER NOW!



HOBBY SPECIALTIES INC.

ANOTHER GM GIANT



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2094 Fifth Street ■ East Meadow, L.I., N.Y. 11554 ■ 516-489-1123

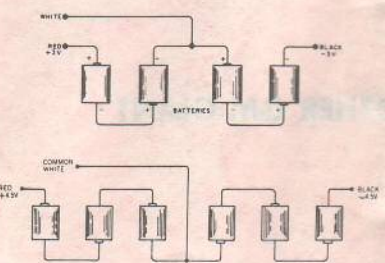
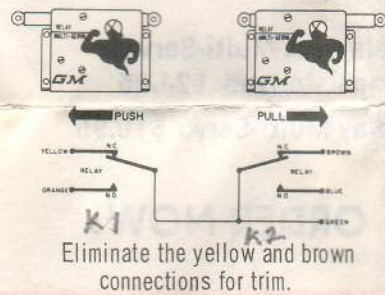
GM GENI INSTRUCTION SHEET

GENERAL INSTRUCTIONS: The G. M. Geni may be mounted in any position. It is recommended that "2-56" bolts be used. Be sure to use a washer under the head of the bolt. For best shock mounting, tighten the bolt until the rubber mounting grommet is slightly compressed, but not flattened. To disassemble the Geni, remove the two sheet metal screws on the sides of the servo. (CAUTION! do not remove the screws on the front or the back of the servo as they serve other purposes. The screws on the front hold part of the switcher board in place and are used to adjust the centering. The screw on the back of the Transistorized Geni hold the Transistor Amplifier in place.) Gently lift the back of the servo off and at the same time push the hook-up wires through the grommet into the case. The Transistor Amplifier is attached to the back case and the hook-up wires are soldered to the amplifier and must follow when the back is removed. (This precaution is not necessary with the Relay version.) Lay the back of the servo along side the main part of the Geni. To operate the Geni with back removed, you must hold the motor in place with your finger. Bend the side of the case next to yoke outward gently until the gear shafts are free, and then lift the yoke, motor, and push-pull arm out. To disassemble the gear rack simply remove the push-pull arm and slide the gears off their shafts. To assemble the Geni, start with plain gears, put one on the shaft next to the motor hole first (Shaft A), with the small gear out. The next gear goes on the other shaft (Shaft B), small gear out with the Teflon washer on top, and the next gear goes on shaft A, small gear out. The next gear is the gear with the small brass gear and large black gear. This one goes on Shaft B with brass gear out. Next, slide the push-pull arm in place with the wiper arm toward the gears and the wiper fingers up, drop the assembled yoke and gear train in place in the case with push-pull arm down. Bend the side of the case out slightly until gear shafts are aligned with their respective holes, then bend side of the case back, making sure that the yoke is caught behind the "press locks" on end of the case, and the gear shafts fit freely into their holes. Put the back of servo in place, gently pulling hook-up wires through the grommet, to take the slack wire out of the servo, as you do so, and then replace the two screws on the side of the Geni.

CENTERING ADJUSTMENTS: The Geni comes to you ready to install. However, if you wish to adjust the centering of the servo, you may do so by loosening the screws on the face of the Geni, and sliding them to the right for finer centering and to the left for wider centering. (If the Geni chatters while in the neutral position, the centering adjustment is too fine.)

POWER SUPPLIES FOR YOUR MODEL: The ideal power supply for the average receiver and set of servos is the G.M. 500ma5 cell nickel cadmium pack. This battery pack eliminates all worry about loose or corroded connections between cells, as the individual batteries are welded together. The entire pack supplies 6 volts which is the necessary power for most multi receivers, and the individual cells may be tapped off (diagram right) to give the correct voltages for the servo. (A fully charged 500 ma battery pack should give 15 to 20 flights. However, it is a good idea to recharge your batteries after a day of flying.) For small multi ships where weight is very critical, the heavy 225 ma 5 cell pack may be used. However, it is advisable to recharge this pack after 5 to 7 flights. As the G. M. nickel Cadmium battery pack can be recharged an infinite number of times, this makes it the least expensive, as well as the most reliable type of power supply to be had. The drawing below shows the proper method of tapping a G.M. Nickel Cadmium battery pack.

The relay version of the G.M. Geni may be used with 4 or 6 cells. 4 is recommended, but if extra speed is desired, 6 cells may be used without harming the servo.



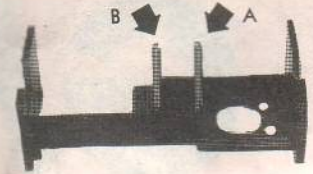
RELAY SERVO: The G.M. Geni may be used as either self-neutralizing or trim. The drawing below (left) shows the proper way to hook up the Geni for the self-neutralizing mode of operation. To use the unit as a trim servo, merely omit the yellow and brown connections and stow these wires.

RELAYLESS SERVO - SELF-NEUTRALIZING: The transistorized relayless Geni comes to you as a self-neutralizing servo. The proper method of hook-up is shown right.

For Trim, bend outside wiper fingers (arrows) so that they do not make contact with the wiper board.

RELAYLESS SERVO - TRIM: To convert the Geni to a trim servo, remove push-pull arm and bend outside contacts so that they will not touch the switcher board when re-installed, as shown in the illustration right. The hook-up is the same as one shown above right for the self-neutralizing mode.

If extra speed is desired in the transistorized servo, extra nickel-cadmium cells may be used as illustrated right. Do not use an extra cell if regular pen-cells are used. Be careful not to use all 7 cells for receiver.



PARTS PRICE LIST

A - Push Pull arm with adj. screws \$1.25
B - Gears, each 30¢ set of 4 1.00
C - Yoke 1.60
D - Motor 3.95
E - Case, with grommets 1.15
F - Switcher Board 1.15
G - Cover, less switcher board 1.00
H - Amplifier, separately 16.95

