R. C. Glossary
(Continued from page 27)

than the equivalent length of straight wire.
Interrupted carrier—A radio frequency car-
rier which has been pulsed or turned on and
cut for control purposes.

Kilocycles—One thousand cycles.

Megacycles—One million cycles.

Meter—An electro-mechanical unit for meas-
uring current, voltage, or resistance. Polarity is
shown on hook of meter case near or on

terminal.

Milliampere—One thousandth of an ampere.

The current range generally used in radio
control work. Usually spoken of as "mils";

i.e., a receiver relay current of 15 mils means
that 1-1/2 thousandth of an ampere is flowing
through the circuit. Generally written as MA
or ma.

Modulation—The process of superimposing an
audio frequency upon the radio frequency

carrier in order to radiate the audio fre-
cuency into space.

Ohm—The unit of resistance. A wire has a
resistance of one ohm when one volt applied
to it causes one ampere of current to flow
through the wire.

Plate current—The current which flows

through the plate circuit of a tube. Measured
in milliamperes. To measure plate current,
connect the correct range milliammeter in

series with "B plus" lead.

Power input—The wattage fed into a radio
tube as determined by voltage applied times

current consumed. Current is in amperes or

fractions thereof.

Power output—The power delivered into the

tank circuit of a tube. Always less than the

power input by 20 to 30 per cent due to

losses in the tube (heat losses, internal resis-
tance) and in circuit components.

RF—Abbreviation for radio frequency.

RFC—Radio frequency choke. For our work,

usually a small cylindrical form wound with

one layer of wire, due to the relatively high

frequency.

Resistance—The opposition set up in a con-
ducting medium which opposes the flow of

current.

Resistor—A device for introducing resistance
in a circuit. Usually made of many turns of

high resistance wire or various forms of car-

bon. Widely used in radio control work and

available in varied shapes and sizes, both

fixed and variable.

Superregenerative receiver—A particular

type of receiver, almost universally used in

RC work, with a circuit in which the incom-

ting signal is greatly amplified in the detector

tube.

Tank circuit—The coil and condenser com-

bination which forms the plate circuit of a tube.

Used to tune to the resonant frequency de-

sired.

Voltage—The "force" in a battery or power

source which pushes the electrons, constitut-

ing the current, through the circuit. Analog-

ous to a pump in a water system.

Watts—The unit of electrical power, power

being the rate of doing work. Any time cur-

rent flows through a conductor, power is used

and this is expressed in watts. The greater

the voltage and the current flow, the greater

the wattage. In a formula, watts equal voltage
times current. Symbol is "W."

Mars
(Continued from page 16)

using flaps for the first time so I'd like to
clear up a few misguided ideas. I've tried all

sorts of flaps: big ones, small ones, some in

the wing and even double ones. For what you

got out of them and the improvement of one

over the other, the trailing edge flap with

attachment flap is the most simple and ideal

for stunt. I've gone over a lot of stunts at contests

and find the problems were only hook up

and movement of chord surfaces.

The flaps on this model are ideal in size and

should move 30" to 35" with the elevator mov-
ing 40° to 45°. This allows model to square off,

which is needed in the square loop and verti-

cal climb, dive and wing over. The method of

hook up to the bell crank is important. The

Mars uses two wires, one for the flap

and the other for the elevator.

Being a consistent winner means careful

preparation. I believe almost anyone can do

it. Constructing a good airplane is first. So

build your model as accurately as you can.

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