# MALLORY

# **Carbon Control Data**

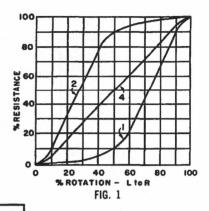
Basic specifications for carbon controls include both resistance and taper. Resistance values and tapers for the various types of Mallory carbon controls are shown in the General Catalog by means of a code: 1, 2, or 4. Taper refers to the percent of resistance change compared to percent of shaft rotation from left to right (clockwise when viewing controls from the front). See Fig. 1.

TAPER NO. 1: Left-hand logarithmic used in audio circuits where percent of change is small at start of rotation. Part number suffix is "A".

TAPER NO. 2: Right-hand logarithmic, used where percent of change must be large at start of rotation. The suffix is "R".

TAPER NO. 4: Linear taper where percent of resistance change is directly proportional to rotational change on a straight line. The suffix is "L".

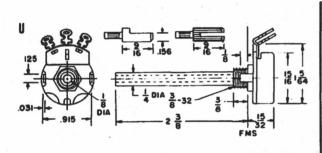
When checking taper attach ohmmeter probes to the center and left terminal when viewing control from the front with control terminals pointed down.

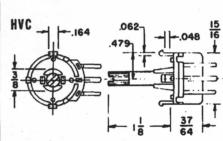


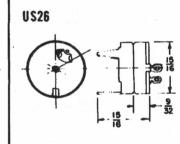
## STA-LOC CONTROL SYSTEM

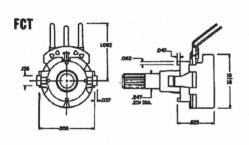
We have listed all STA-LOC components in a separate volume. This volume will be mailed to all STA-LOC distributors. To get one simply ask for bulletin 9-779.

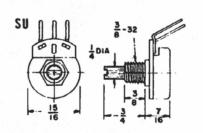
# MALLORY MIDGETROL®

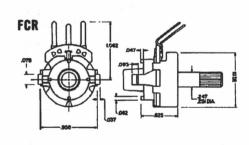








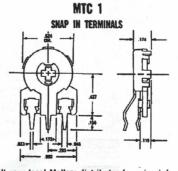


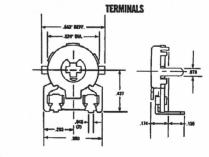


MTC 4

# TRIMMER CONTROLS

MLC





Consult your local Mallory distributor for price information.

### MALLORY MIDGETROL®

Mallory Midgetrol is used in both replacement and industrial applications. Rated 1 watt linear,  $\frac{1}{2}$  watt audio taper.  $\frac{1}{2}$ % diameter. Tapers: 1- left hand audio; 2- reverse audio; 4- linear. Rotation: Mechanical and electrical is 316° for controls with #2 and #4 tapers. If switch is used the electrical is reduced to 285°. Controls with #1 tapers have 316° mechanical and 285° electrical with or without switch. See page 103 for dimensional drawings and further taper information. For prices, reference price sheet No. 501.



TYPE "U" BUSHING MOUNT - METAL SHAFT 3/2 x 3/2 bushing; shaft 1/2 dia. x 1/2 FMS (Front Mounting Surface). Tolerance 1/2 20%. Furnished with two knob adapters and hex nut. Use DS extension shaft with U control hardware page 00.

### WITHOUT TAPS

Resis., Ohms	t	Catalog No.	Resis., Ohms	t	Catalog No.
100	4	U1	100K	1	U39
500	4	U2	100K	4	U41
500	2	U52R	200K	4	U43
1K	2	U3	250K	4	U46
1K	2 4	U4	500K	1	U48
5K	1	U12	500K	4	U50
5K	4	U14	1 meg	1	U53
10K	1	U18	1 meg	4	U54
10K	4	U20	1.5 megs	4	U155
20K	4	U26	3 megs	4	U59
25K	4	U29	5 megs	4	U67
30K	4	U30	10 megs	4	U82
50K	i	U33			
50K	4	U35			

†Taper, see page 103



## MLC 1/2" MINIATURE CONTROLS

Only ½" dia. Rated ¼ watt linear, ½ watt audio. ¼"-32 x ¼" bushing with nut. Shaft: ½" dia. x 1½6" FMS, MLC (steel); ½" dia. x ½6" FMS, MLCN (nylon). SPST switch rated 3 amps at 125 VAC, U/L Approved. For prices, reference price

Type MLC Bushing Mount. Tolerance: MLC ± 20%.

Ohms	†	Switch	Catalog No.
1000	4		MLC13L
2200	4	SPST	MLC222LS
2500	1		MLC252A
5000	1		MLC53A
5000	1	SPST	MLC53AS
5000	4		MLC53L
5000	4	SPST	MLC53LS
10K	1		MLC14A
10K	1	SPST	MLC14AS
10K	4		MLC14L
50K	4		MLC54L
100K	1		MLC15A
100K	1	SPST	MLC15AS
100K	4		MLC15L
200K	4		MLC25L
250K	4		MLC254L
1 meg	4	SPST	MLC16LS
1 meg	1		MLCN16A
1 meg	4		MLCN16L

†Taper, see page 103

WARNING: To prevent shock hazard never replace an original equipment control having a plastic shaft with one that has a metal shaft.

TYPE "FC" SPECIAL CARBON ELEMENT FOCUS CONTROL
Especially designed to withstand high voltage surges in color TV sets. Available in two tab mounting configurations. Type FCT has a 1/4" x 1½" nylon shaft and a snap-in nylon bushing extending from the front of the control. Type FCR has reverse mounting, a ½" x ½" nylon shaft extends out the rear of the control and a snap-in nylon bushing extends from the front of the control.

Description	Resistance	†	Catalog No.
Shaft out the front	10 Meg.	4	FCT17L
Shaft out the front	15 Meg.	4	FCT156L
Shaft out the rear	15 Meg.	4	FCR156L

TYPE "SU" BUSHING MOUNT - NYLON SHAFT Tolerance  $\pm 20\%$ . Same bushing as U type. Shaft  $\frac{1}{4}$ " dia. x  $\frac{3}{4}$ " FMS nylon. Supplied with nal nut.

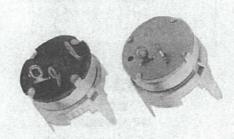
Resis., Ohms	†	Catalog No.	Resis., Ohms	t	Catalog No.
1500	4	SU6	250K	4	SU46
5K	4	SU14	500K	4	SU50
10K	4	SU20	1 meg	4	SU54
25K	4	SU29	2 megs	4	SU56
50K	4	SU35	5 megs	4	SU67
100K	4	SU41			

†Taper, see page 103.

TYPE "HVC" HIGH VOLTAGE COLOR CONTROL To isolate control mounting from up to 4000 volts rms. Nlyon insulating mounting plate and  $\frac{1}{4}$ " dia. x  $1\frac{1}{8}$ " FMS nylon shaft.

Resistance	1	
3.5 megs	4	HVC355L

†Taper, see page 00

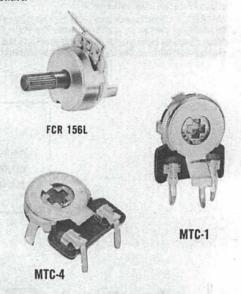


**SWITCHES** Switches for U, or PTA controls.

Description	Catalog No.
SPST, 6 amps at 125 VAC	US26*
SPST, w/ dummy terminal	US26T
DPST, 6 amps at 125 VAC	US27
SPDT, 3 amps at 125 VAC	US28

\* Flame retardant U.L. recognized.

Consult your local Mallory distributor for price information



MTC MINIATURE TRIMMER CONTROL Designed for printed circuitry. Use wherever an occasionally adjusted, low wattage variable resistance source is needed. MTC-1 terminals for standup mounting, MTC-4 terminals for flat mounting. Open crossed slot allows adjustments with either a blade or Phillips screwdriver. Tolerance: ± 20%. Linear Taper. For prices, reference price sheet No. 501.

Element voltage 500 volts max. Rated 1/4 watt linear.

Vertical Mounting	Horizontal Mounting	Resis., Ohms
MTC12L1	MTC12L4	100
MTC22L1	MTC22L4	200
MTC251L1	MTC251L4	250
MTC32L1		300
MTC52L1	MTC52L4	500
MTC751L1	MTC751L4	750
MTC13L1	MTC13L4	1000
MTS152L1	MTC152L4	1500
MTC23L1	MTC23L4	2000
MTC252L1	MTC252L4	2500
MTC33L1	MTC33L4	3000
MTC53L1	MTC53L4	5000
MTC63L1	MTC63L4	6000
	MTC682L4	6800
MTC14L1	MTC14L4	10K
MTC153L1	MTC153L4	15K
MTC24L1	MTC24L4	20K
MTC253L1	MTC253L4	25K
MTC54L1	MTC54L4	50K
MTC15L1	MTC15L4	100K
MTC184L1	MTC184L4	180K
MTC254L1	MTC254L4	250K
MTC3253L1	MTC3253L4	325K 450K
MTCEEL1	MTC454L4 MTC55L4	500K
MTC55L1 MTC16L1	MTC16L4	1 meg
MTC26L1	MTC26L4	
MTC355L1	MTC355L4	2 megs 3.5 megs
MTC56L1	MTC56L4	5 megs