

BRISTOL'S SERIES "500" VOLTMETER

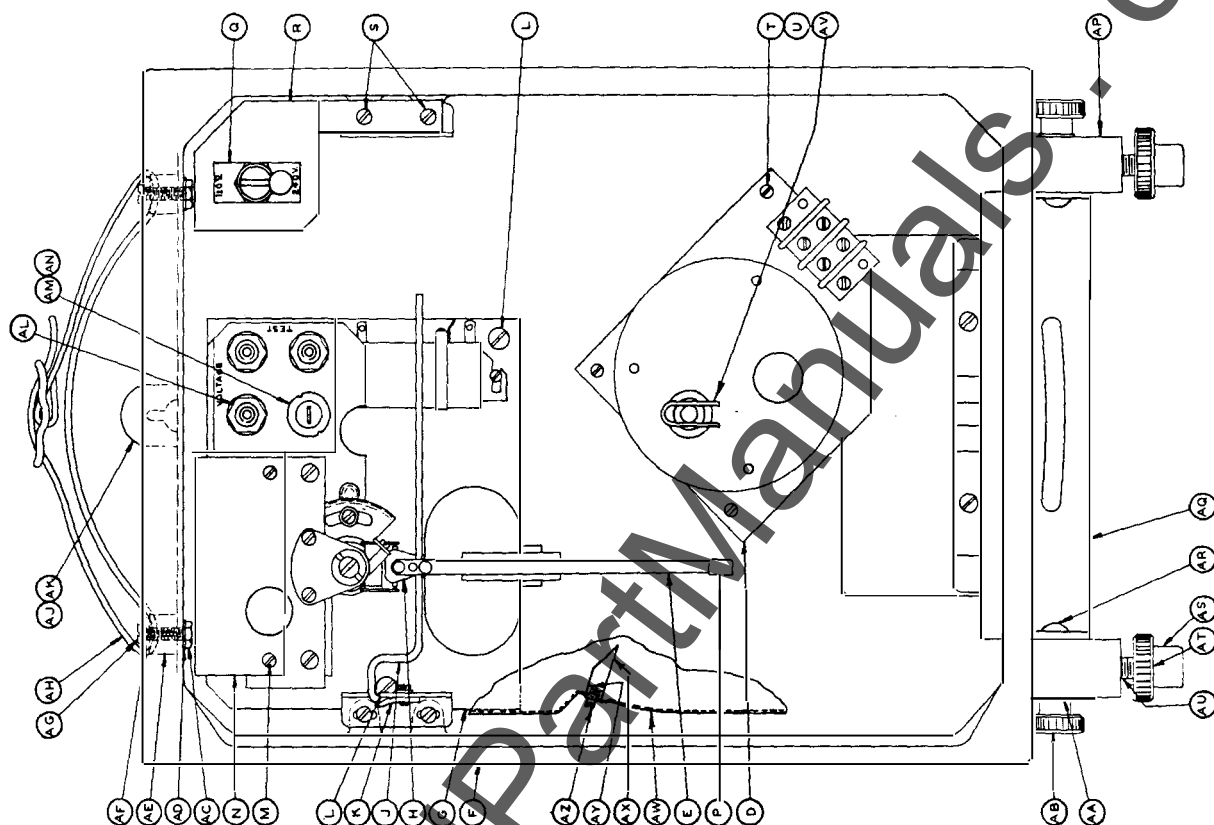


FIGURE 2. SINGLE-PEN VOLTMETER IN PORTABLE 8" CASE

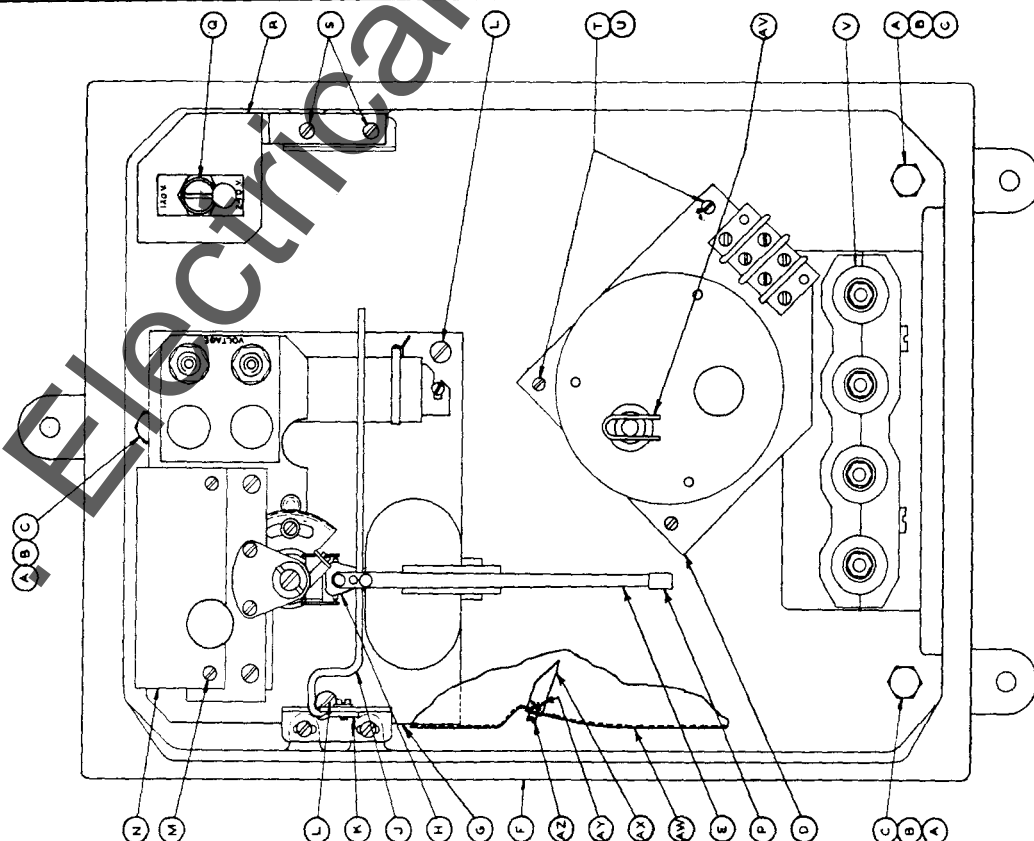
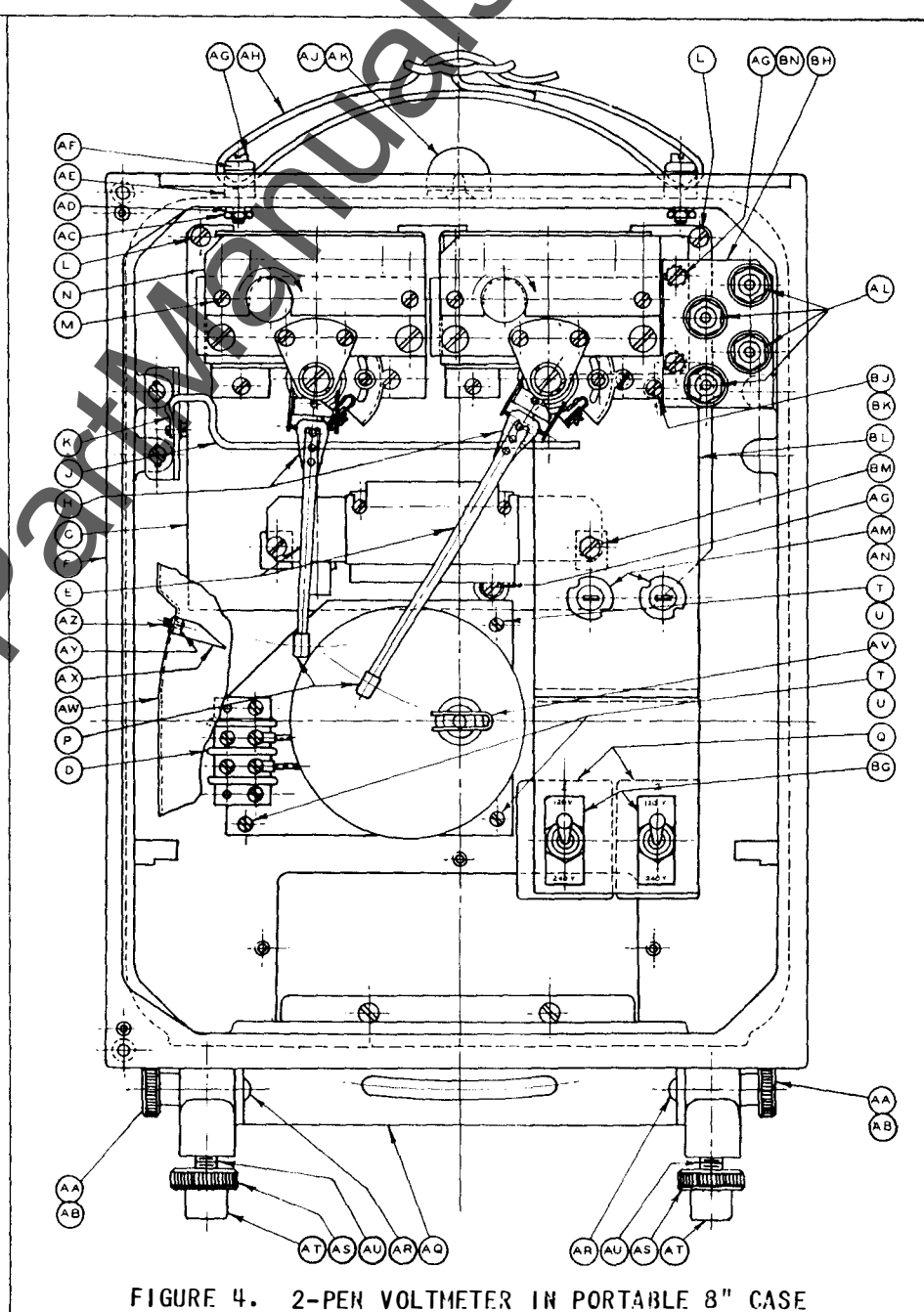
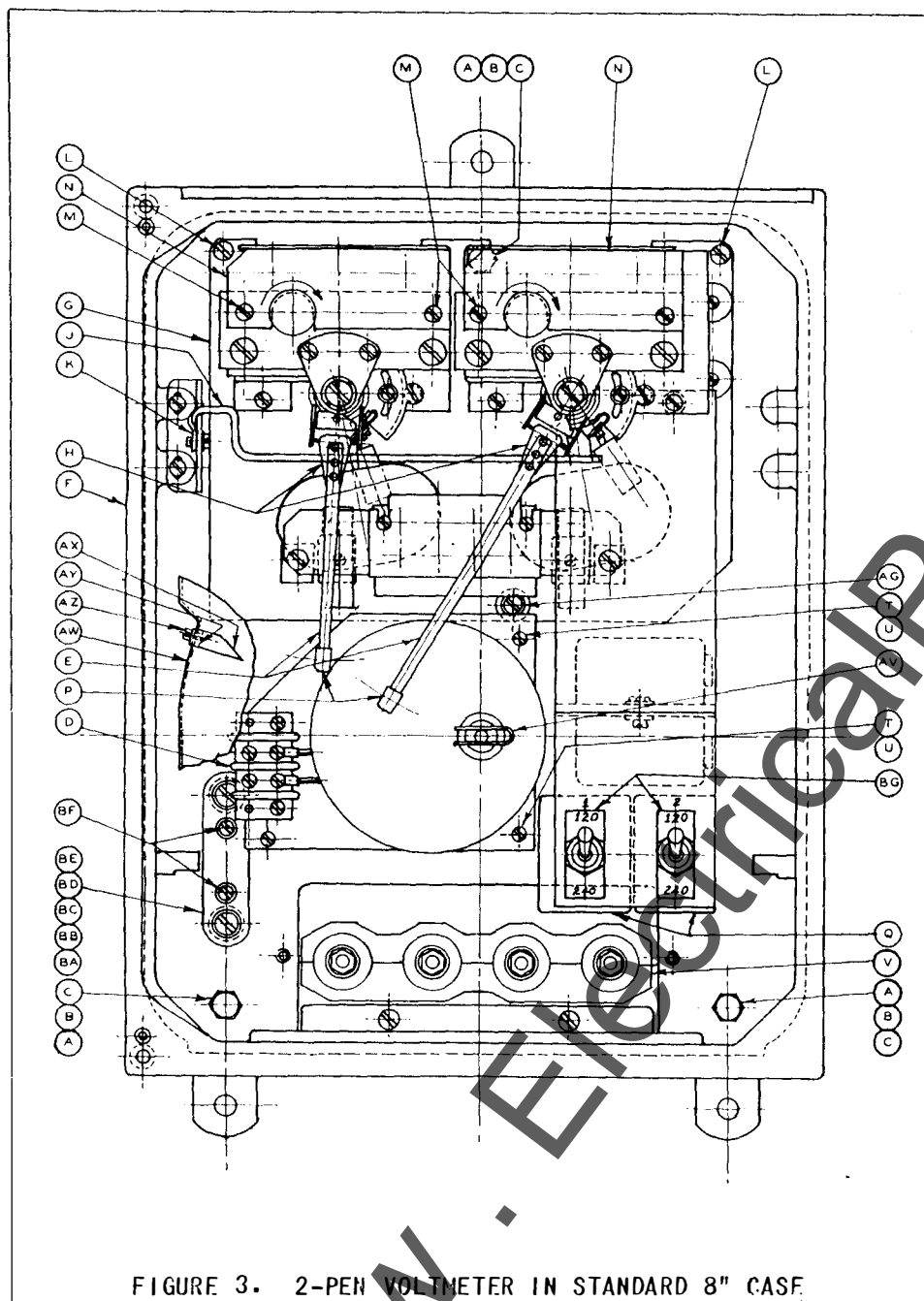
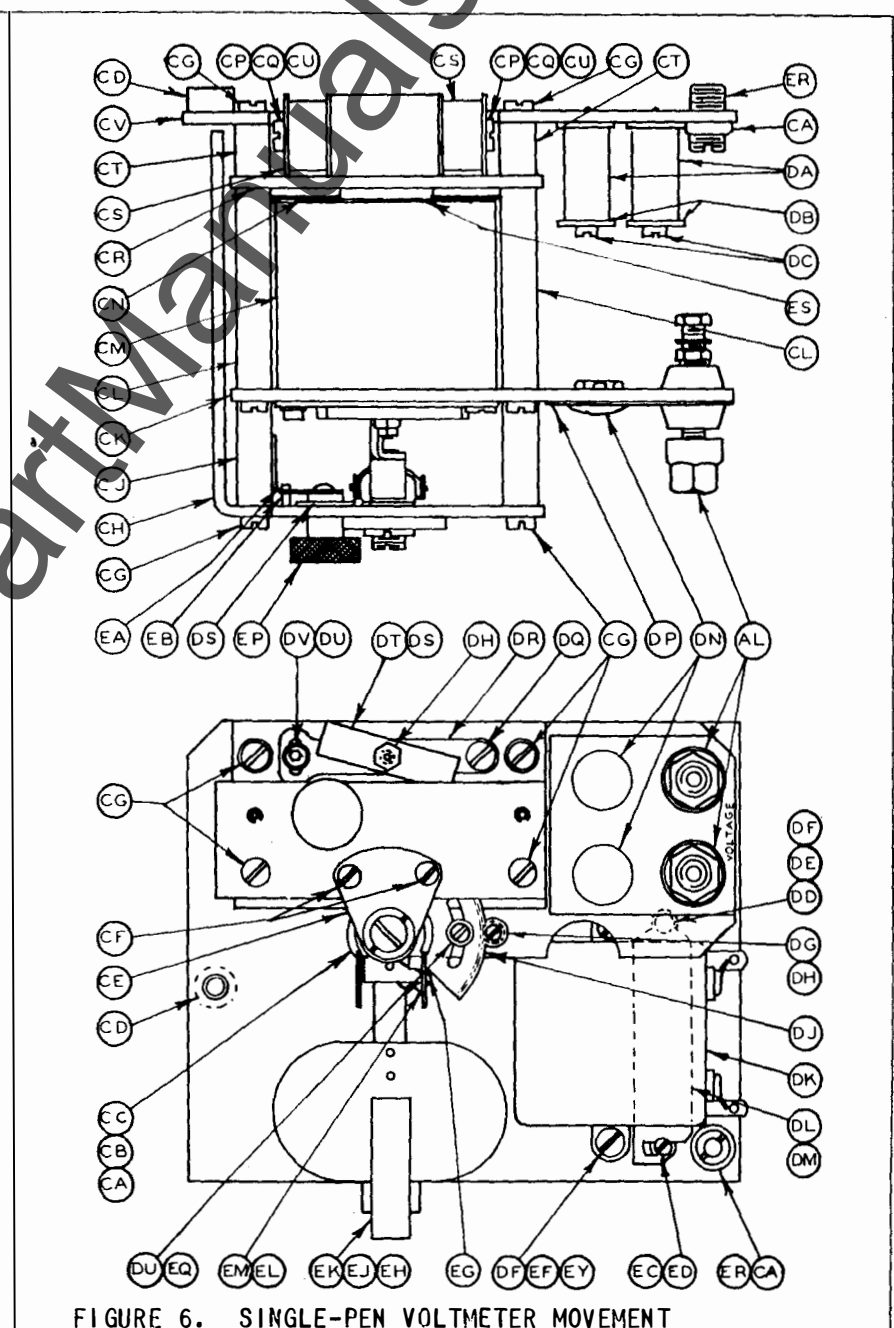
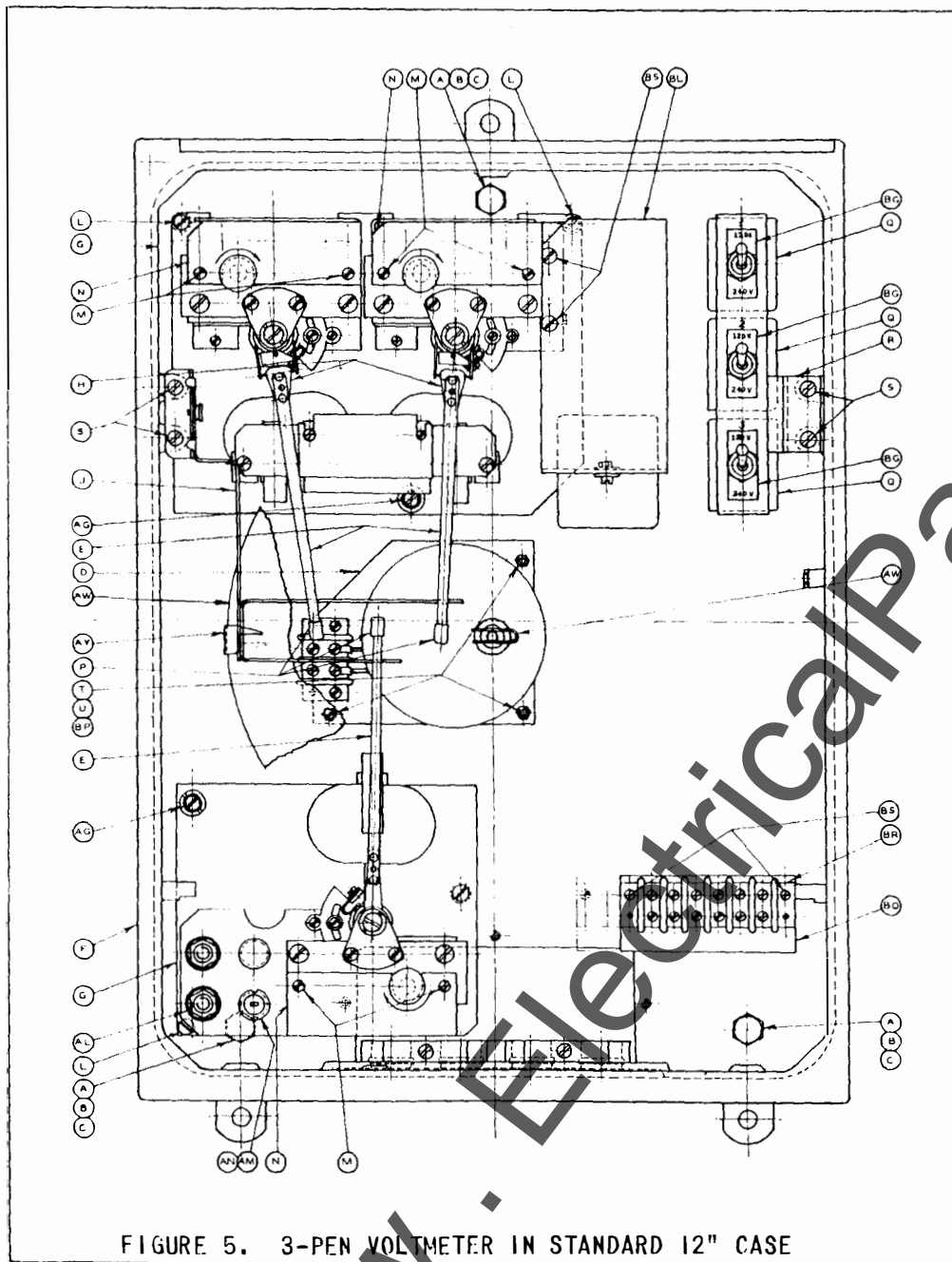


FIGURE 1. SINGLE-PEN VOLTMETER IN STANDARD 8" CASE





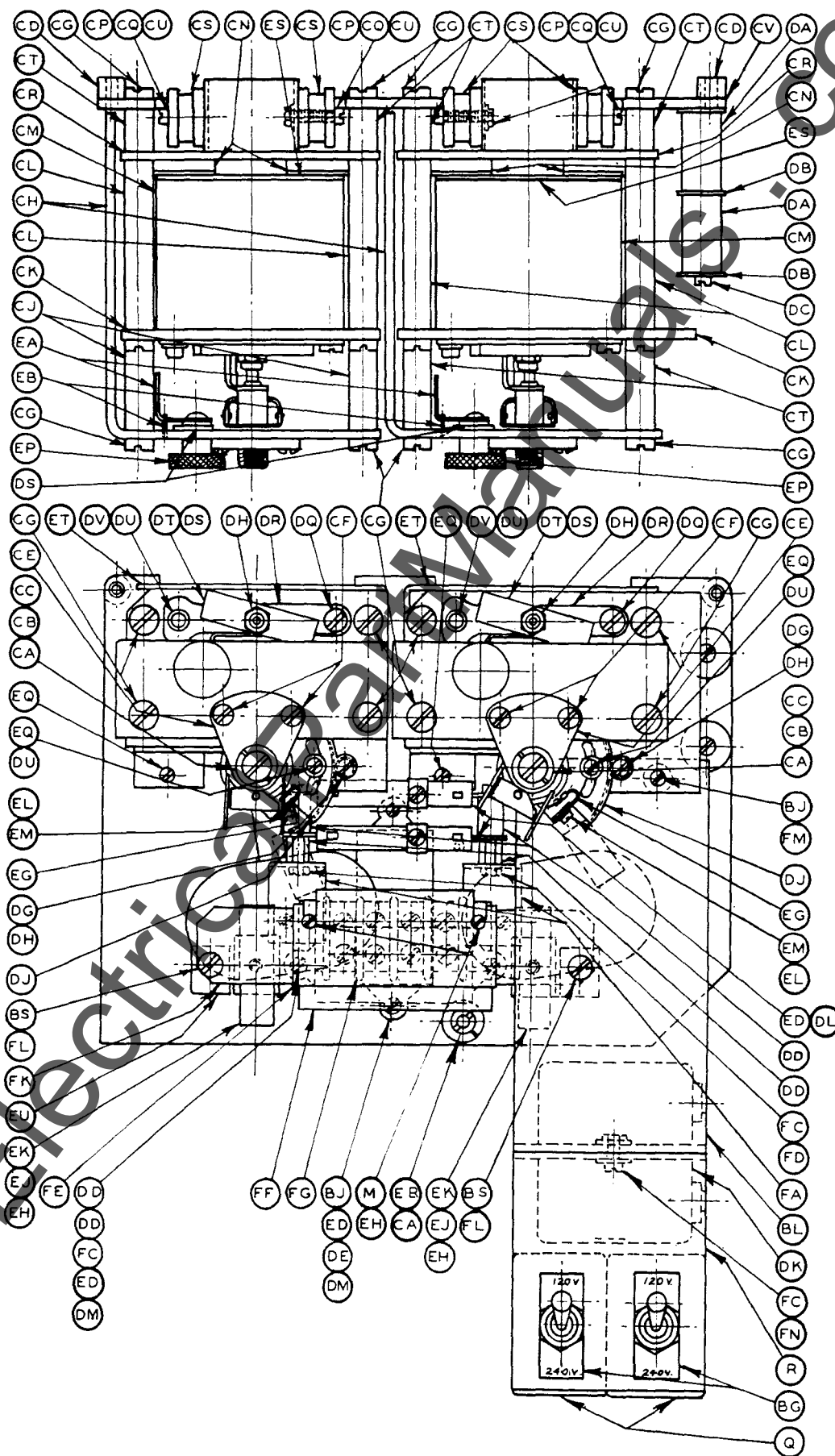


FIGURE 7. 2-PEN VOLTMETER MOVEMENT

BE SURE TO STATE MODEL AND SERIAL NUMBERS OF INSTRUMENT WHEN ORDERING PARTS

ITEM	DESCRIPTION	PART NO.
A	5/16" - 24 x 3" Hexagon-head bolt	94169
B	5/16" - 24 Hexagon-nut	85734
C	Washer	18649
D	Spring chart drive	
	12 hour	84586
	24 hour	84585
	48 hour	89712
	7 day	89713
	Electric chart drive	
	30 minutes	
	96 minutes	
	4 hours	
	8 hours	
	12 hours	
	24 hours	
	48 hours	
	72 hours	
	7 days	
	30 days	
	These chart drives are available for 120 volts and 240 volts at 25, 50 or 60 cycles. Give type, voltage and frequency required.	
E	Pen arm	
	For single pen in 8" case	
	For V-pen	92494
	For fountain pen	90086
	For two-pens in 8" case	
	#1-pen arm	89846
	#2-pen arm	89847
	For 3-pen, 12" case	90086
F	Case, 8" single-pen, model 530 (pole mounted)	86185
	Case, 8" two-pen, model 530 (pole mounted)	94170
	Case, 8" single-pen, model 541 (portable)	89835
	Case, 8" two-pen, model 541 (portable)	97480
	Case, 8" two-pen, model 631 (portable)	93774
	Case, 12" three-pen, model 500 (pole mounted)	86142
	Case, 12" three-pen, model 511 (portable)	97474
G	Movement complete, give model serial number, frequency and range of instrument (see figures 6 and 7 for breakdown)	
H	Base end	90084
	1/72 Special-head screw	82591
J	Pen lifter for instruments in 530 and 541 cases	90069
	Pen lifter for instruments in 631 case	93729
	Pen lifter for instruments in 500 and 511 cases	97455
K	Bracket	84103
L	10-32 x 5/8" Fillister-head screw	66543
M	6-40 x 3/16" Special-head screw	68345
N	Cover plate	90022
	Cover plate for #3 pen coil in 12" 3-pen instrument	97457
P	V-pen	42648
	Fountain pen	46108
Q	Switch-double pole, double throw	90089
	Switch-triple pole, double throw	90090
	Switch-four pole, double throw	94146
NOT SHOWN	Resistance (3000 ohm, 10 watts)	74025
R	Bracket for mounting above switch in 1-pen 530 and 541 case	90088
	Plate for mounting above switch in 2-pen 530 and 541 case	94113
	Bracket for mounting above switch in 631 case	93732
	Bracket for mounting above switch in 500 and 511 case	97462
S	10-32 x 1/4" Special-head screw for 530 and 541 case	39425
	10-32 x 1/4" Fillister-head screw for 631 case	66537
	10-32 x 5/16" Self-tapping screw for 500 and 511 case	85812
NOT SHOWN	Lockwasher for screw in 631 case	71658
T	6-40 x 1/4" Fillister-head screw for 530 and 541 case	86804
	6-40 x 1/4" Flat-head screw for 631, 500 and 511 case	20021
U	Chart-drive post	84344
V	Terminal post complete	85796
	Washer	35638
	Cup washer	48400
	Marking tag	86095
	10-32 Hexagon nut	62618
	Split washer	71658
	Stud	85798
	Insulating post	85797
	10-32 x 3/16" Bristo cone-point setscrew	82413
	Connection	86097
AA	Lockwasher	39714
AB	1/4 - 20 Thumb nut	89829
AC	10-32 Hexagon nut	68556
AD	#10 Lockwasher	35638
AE	Spacer	70846
AF	Metal strip for 541 and 511 case	84712
	Drip shield for 631 case	93770

BE SURE TO STATE MODEL AND SERIAL NUMBERS OF INSTRUMENT WHEN ORDERING PARTS

ITEM	DESCRIPTION	PART NO.
AG	10-32 x 7/8" Fillister-head screw	66519
	10-32 x 7/16" Fillister-head screw for 631 case	79594
AH	Handle	70845
AJ	Top bracket	89830
AK	1/4" - 20 x 3/8" Flat-head screw	90779
AL	Binding post	90031
AM	Fuse holder	84716
AN	Fuse	67413
AP	Case foot (includes item AT and AU)	83053
	1/4" - 20 Fillister-head screw for mounting item AP	38451
AQ	Bottom bracket for 8" 541 case	89828
	Bottom bracket for 8" 631 case	93733
	Bottom bracket for 12" 511 case	97463
AR	1/4" - 20 x 1 3/4" Carriage bolt for 541 and 511	89827
	1/4" - 20 x 3/4" Carriage bolt for 631 case	93738
AS	Rubber foot	92722
AT	Leveling knob } order assembled {	82626
AU	Leveling screw }	82625
AV	Chart hub	74986
AW	Dial-plate for 8" 530 case	84727
	Dial-plate for 8" 541 case	94145
	Dial-plate for 8" 1-pen 631 case	93726
	Dial-plate for 8" 2-pen 631 case	94142
	Dial-plate for 12" 3-pen 500 and 511 case	97456
AX	Time indicator for 530 and 1-pen 541 case	84724
	Time indicator for 2-pen 541 case	97795
	Time indicator for 631, 500 and 511 case	65191
AY	2-64 Hexagon nut	87118
AZ	2-64 Special-head screw	67694
BA	10-32 x 7/16" Fillister-head screw	42098
BB	Cup washer for 530 and 500 case	48400
BC	Washer for 530 and 500 case	10075
BD	Gasket for 2-point terminal block	70984
BE	Terminal block 2-point	70982
BF	8-32 x 9/16" Fillister-head screw	74931
BG	Name plate for switch	69874
BH	Terminal mounting plate	94144
BJ	6-40 x 1/2" Fillister-head screw	35882
BK	Spacer	35519
BL	Mounting plate	94111
BM	Post	94112
BN	Post	97796
BP	Dial post for 631, 500 and 511 case	93725
BQ	Terminal marking strip - 6-point for 3-pen model 500 and 511 voltmeter with spring chart drive	97458
	Terminal marking strip - 8-point for 3-pen model 500 and 511 voltmeter with electric chart drive	97459
BR	Terminal block - 6-point for 3-pen model 500 and 511 voltmeter with spring chart drive	74803
	Terminal block - 8-point for 3-pen model 500 and 511 voltmeter with electric chart drive	76651
BS	10-32 x 5/16" Fillister-head screw	67029
CA	3/8 - 27 Special nut	90039
CB	Bearing screw complete	90033
CC	Shaft complete (give model, serial number and range of instrument and pen number required)	
CD	Hub (order assembled to item CV)	92702
CE	Bearings support plate	90030
CF	6-40 x 1/4" Fillister-head screw	41418
CG	10-32 Shoulder screw	89048
CH	Bearing plate	90041
CJ	Top post	90040
CK	Top-coil plate complete for single coil	90071
	Top-coil plate complete for #1 coil of 2-coil unit	89083
	Top-coil plate complete for #2 coil of 2-coil unit	94102
CL	Mounting post (long)	90005
CM	Coil complete	90077
	Coil	90078
	Core	89825
CN	Leaf spring	90006
CP	Lockwasher	74041
CQ	3-56 Nut	15852
CR	Lower-coil mounting plate	90003
CS	Thermistor complete	90050
CT	Mounting post (short)	90004
CU	3-56 x 3/4" Fillister-head screw	90765
CV	Mounting plate for 1-pen unit } see item CD {	90001
	Mounting plate for 2-pen unit }	94100
DA	Resistance spool	
	60 ohm	93743
	80 ohm	93197
	250 ohm	93196

BE SURE TO STATE MODEL AND SERIAL NUMBERS OF INSTRUMENT WHEN ORDERING PARTS

ITEM	DESCRIPTION	PART NO.
DB	Washer	35218
DC	6-40 x 1 1/4" Fillister-head screw for 1-spool	41805
	6-40 x 2 1/4" Fillister-head screw for 2-spools	68876
DD	Post (long) for 1-pen unit	84335
	Post (long) for 2-pen unit	64714
DE	Post (short)	36031
DF	10-32 x 3/8" Fillister-head screw	66539
	10-32 x 3/16" Fillister-head screw	68536
DG	Pinion	90012
DH	6-40 Elastic stop nut	82647
DJ	Segment gear	90011
DK	Capacitor	
	.25 Microfarad	93739
	1. Microfarad	90059
	.25 and 1. Microfarad	93740
DL	Variable resistance (6000 ohms)	90061
DM	Fixed resistance	
	600 ohm	94147
	1200 ohm	93741
	3000 ohm	90056
	4000 ohm	93772
	4800 ohm	93742
DN	Fastner	89843
DP	Insulating strip	90032
DQ	Shoulder screw	56139
DR	Adjusting arm	90045
DS	Spider washer	67384
DT	Magnet	90046
DU	Washer	6965
DV	6-40 x 1/4" Socket-head cap screw	86323
EA	Locking arm complete	90042
EB	Drive lock pen	74208
EC	6-40 x 1 1/16" Fillister-head screw	62290
ED	Resistor leg	93734
EF	Post	93736
EG	Spring clip	93744
EH	Washer	35639
EJ	8-36 x 5/16" Fillister-head screw	29944
EK	Damping magnet	90048
EL	3-56 x 1/8" Fillister-head screw	65071
EM	Washer	18506
EN	Capacitor mounting plate	93737
EP	Knob	93731
EQ	6-40 x 3/16" Fillister-head screw	18339
ER	Spacer screw	92701
ES	Insulating strip	96236
ET	Shield for #1 coil in 2-coil unit	94103
	Shield for #2 coil in 2-coil unit	94104
EU	Bracket for terminal block	89836
FA	Resistor mounting bracket	94138
FC	6-40 Hexagon nut	20903
FD	6-40 x 11/16" Fillister-head screw	40069
FE	Terminal-block cover	89824
FF	Marking strip for 2-pen instrument	90098
	Marking strip for 3-pen instrument	97422
FG	Terminal block 4-point	74802
FH	Spacer	56394
FK	Terminal mounting plate	90097
FL	Post	97794
FM	Spacer	91727
FN	6-40 x 3/8" Fillister-head screw	18329
PARTS NOT SHOWN		
	Name plate	87187
	Name plate cover	86800
	Emblem plate for 530 and 541 case	85155
	Emblem plate for 631, 511 and 511 case	93781
	6-40 Hexagon nut	13775
	Plug	82664
	Hexagon nut for cable clamp	84729
	Bottle clamp for 541 case	91247
	Bottle bracket for 631 case 1-pen	93727
	Bottle clamp for 631 case 1-pen	38288
	Bottle clamp for 631 case 2-pen	91247
	Bottle bracket for 631 case 2-pen	94141
	10-32 x 5/16" Fillister-head screw for above bracket	6994
	Lockwasher for above screw	71658

BE SURE TO STATE MODEL AND SERIAL NUMBERS OF INSTRUMENT WHEN ORDERING PARTS

ITEM	DESCRIPTION	PART NO.
	10-32 Hexagon nut for above screw	68556
	6-40 x 3/16" Oval-head screw for bottle and chart clip	68345
	Lockwasher for above screw	79008
	6-40 Nut for above screw	772
	6-40 x 11/16" Fillister-head screw for bottle clamp in 631 case	40069
	2-64 x 1/8" Fillister-head screw for mounting pen lifter in 631 case	33522
	Key clip for 541 and 631 case	86527
	Grommet used in 631 and 511 case	14490