



POWER BREAK

ILLUSTRATIONS

GENERAL

The following illustrations are intended to aid the reader in identifying various internal parts and assemblies of the Power Break family of breakers.

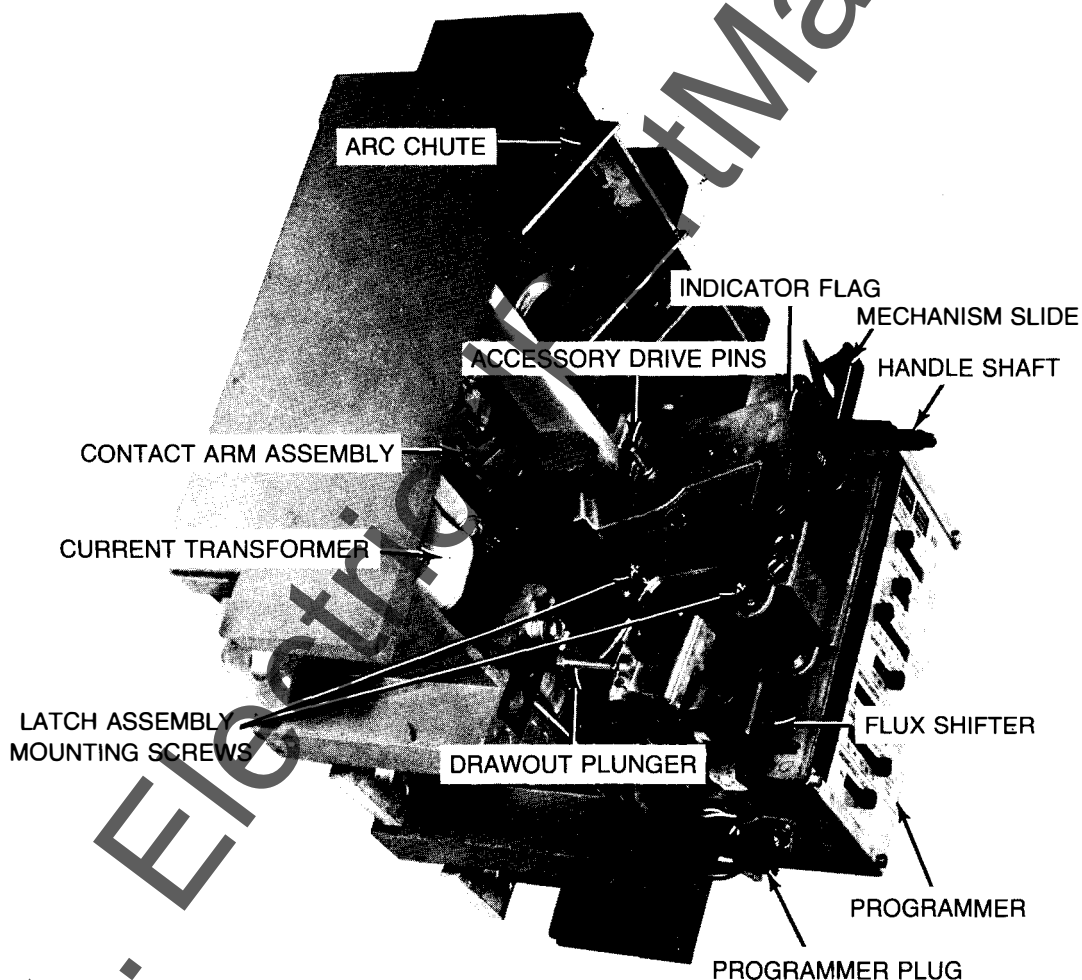
INDEX:

FIGURE

1. 600-1600 Ampere Frames—Manually operated (Old Style)
800-2000 Ampere Frames—Manually operated
2. 600-1600 Ampere Frames—Electrically operated (Old Style)
800-2000 Ampere Frames—Electrically operated

FIGURE

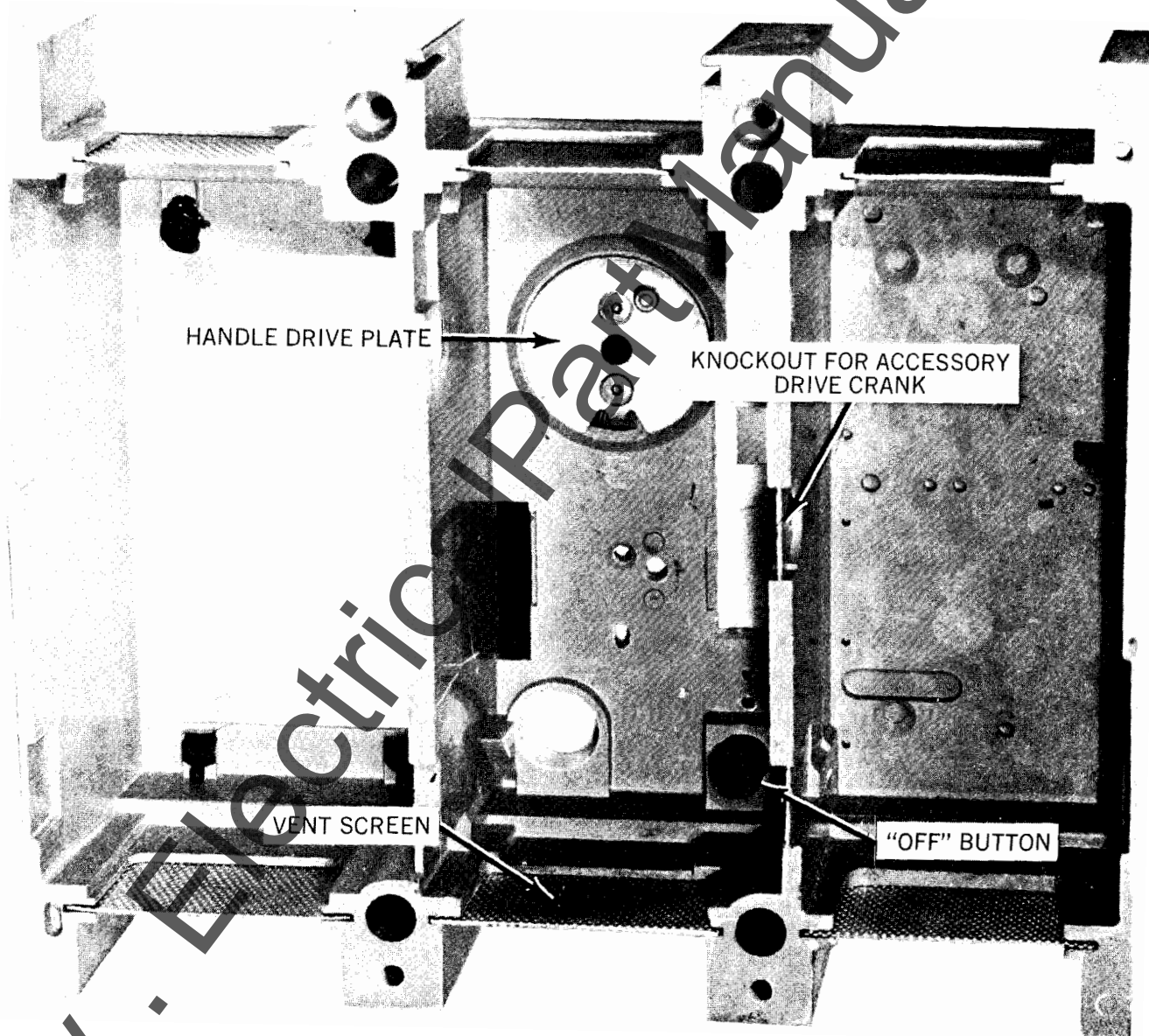
3. 2000-4000 Ampere Frames—Manually operated (Old Style)
2500-4000 Ampere Frames—Manually operated
4. 2000-4000 Ampere Frames—Electrically operated (Old Style)
2500-4000 Ampere Frames—Electrically operated



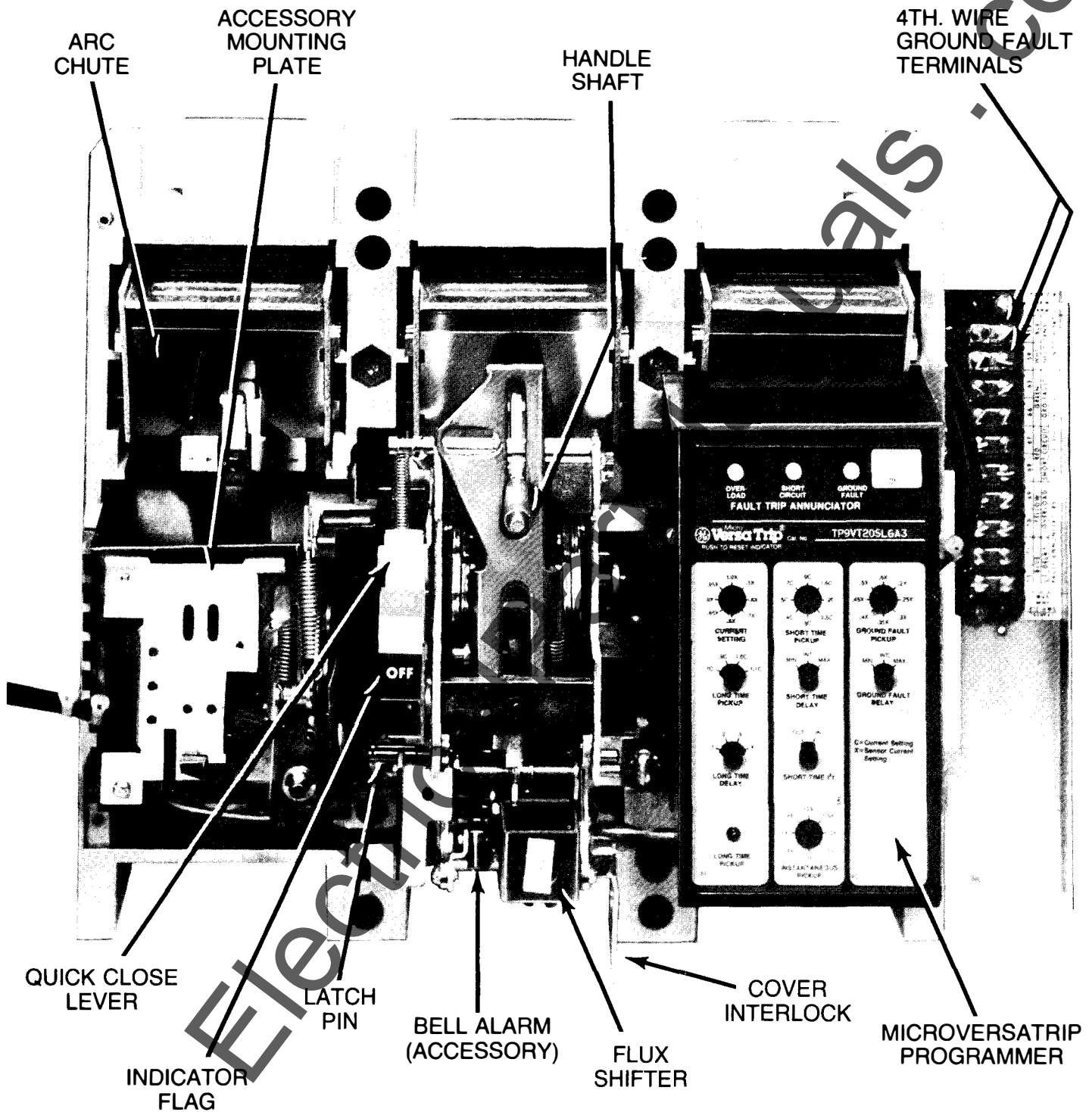
OLD STYLE
600A MANUALLY OPERATED BASE AND MECHANISM
(MECHANISM SAME AS 1600A)

NOTE: Breaker closes on down stroke of handle.

Figure 1A



600 AMPERE POWER BREAK®
MANUALLY OPERATED
COVER (INSIDE)
Figure 1B

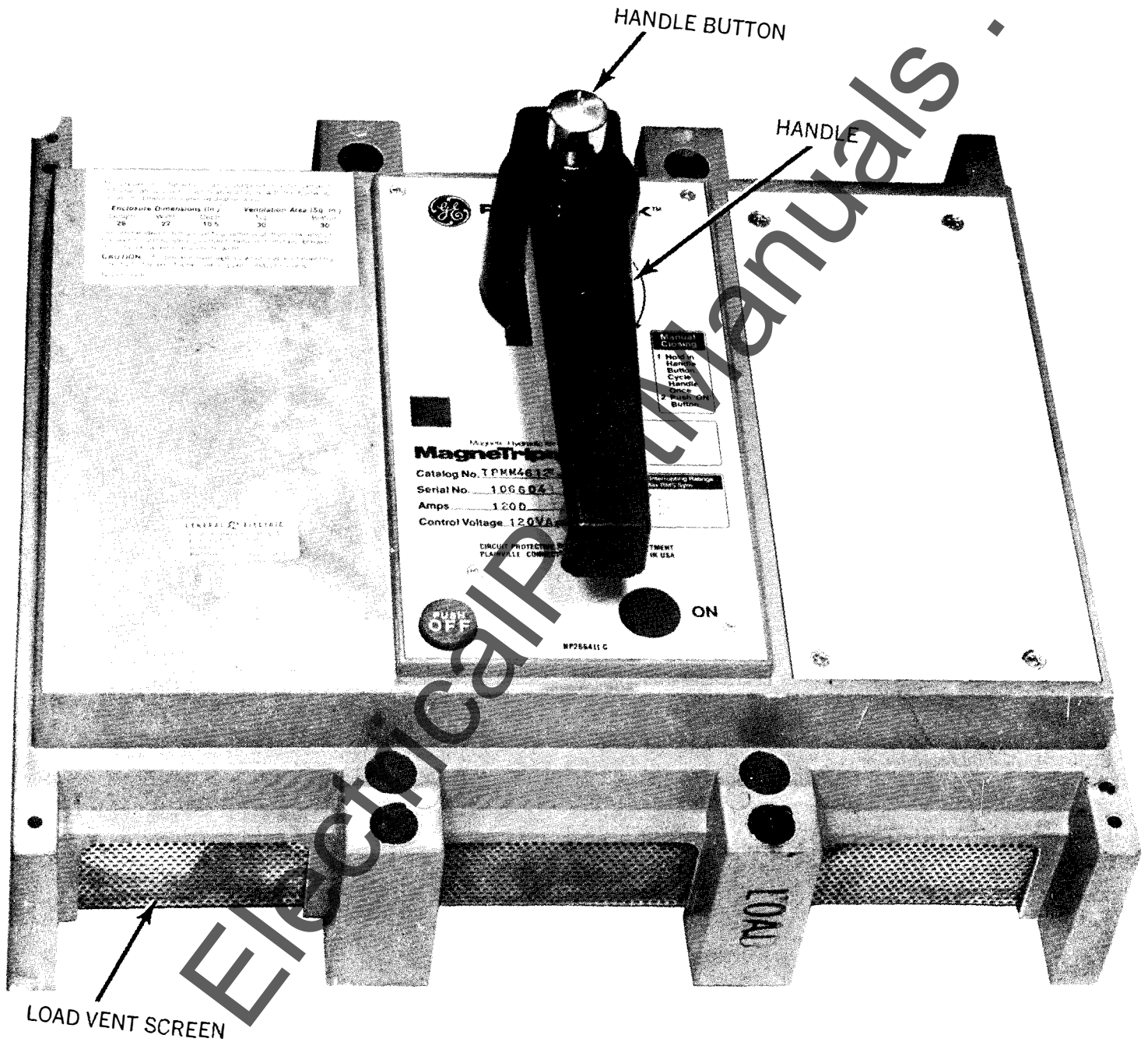


**800 A MANUALLY OPERATED BASE AND MECHANISM
(MECHANISM SAME AS 1600 AND 2000A)**

**NOTE: BREAKER LATCHES IN CHARGED POSITION
ON DOWN STROKE OF HANDLE;
PRESSING "ON" BUTTON MOVES
"QUICK CLOSE LEVER" TO CLOSE BREAKER.**

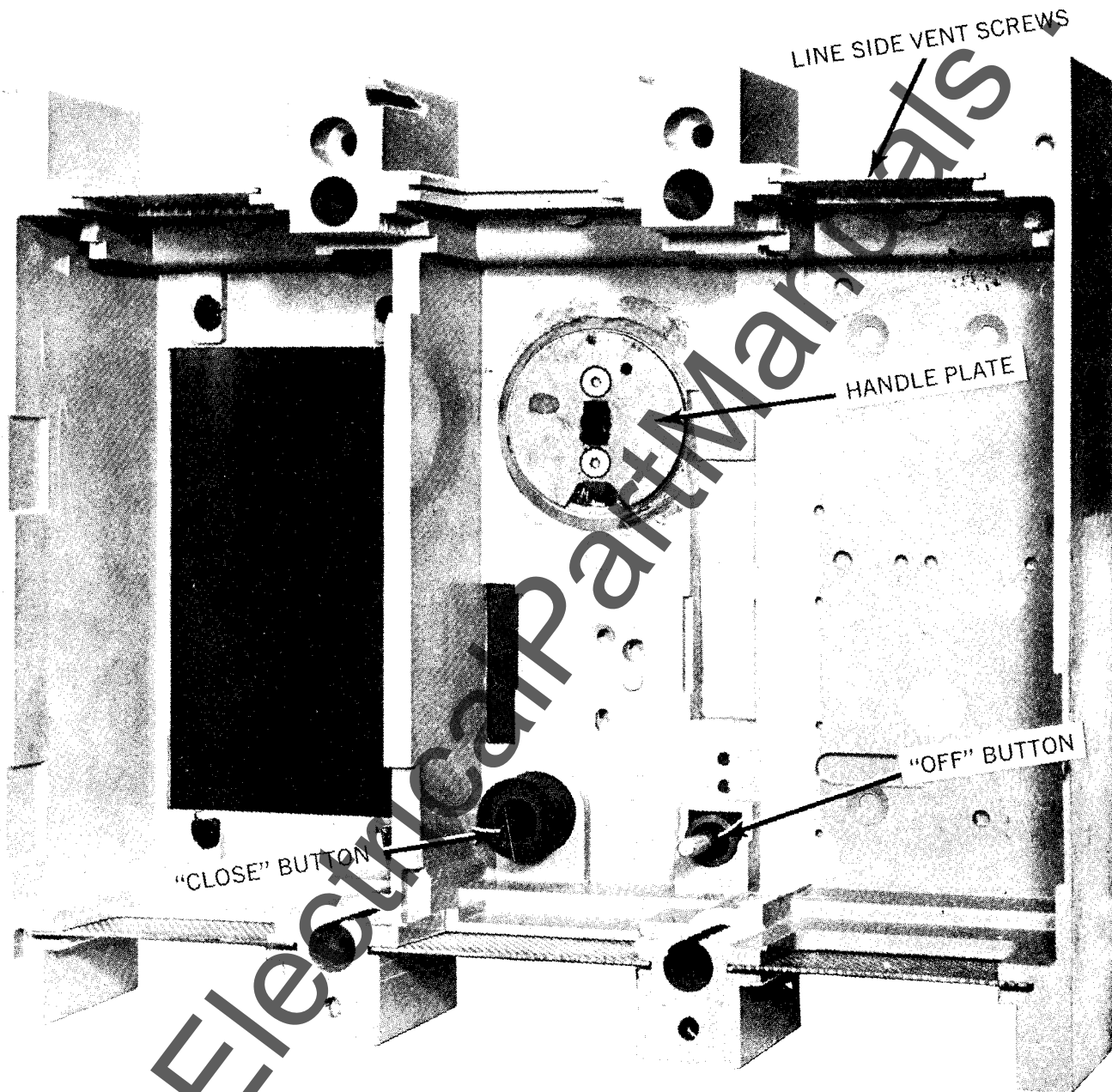
Figure 1C

GEF-4458A

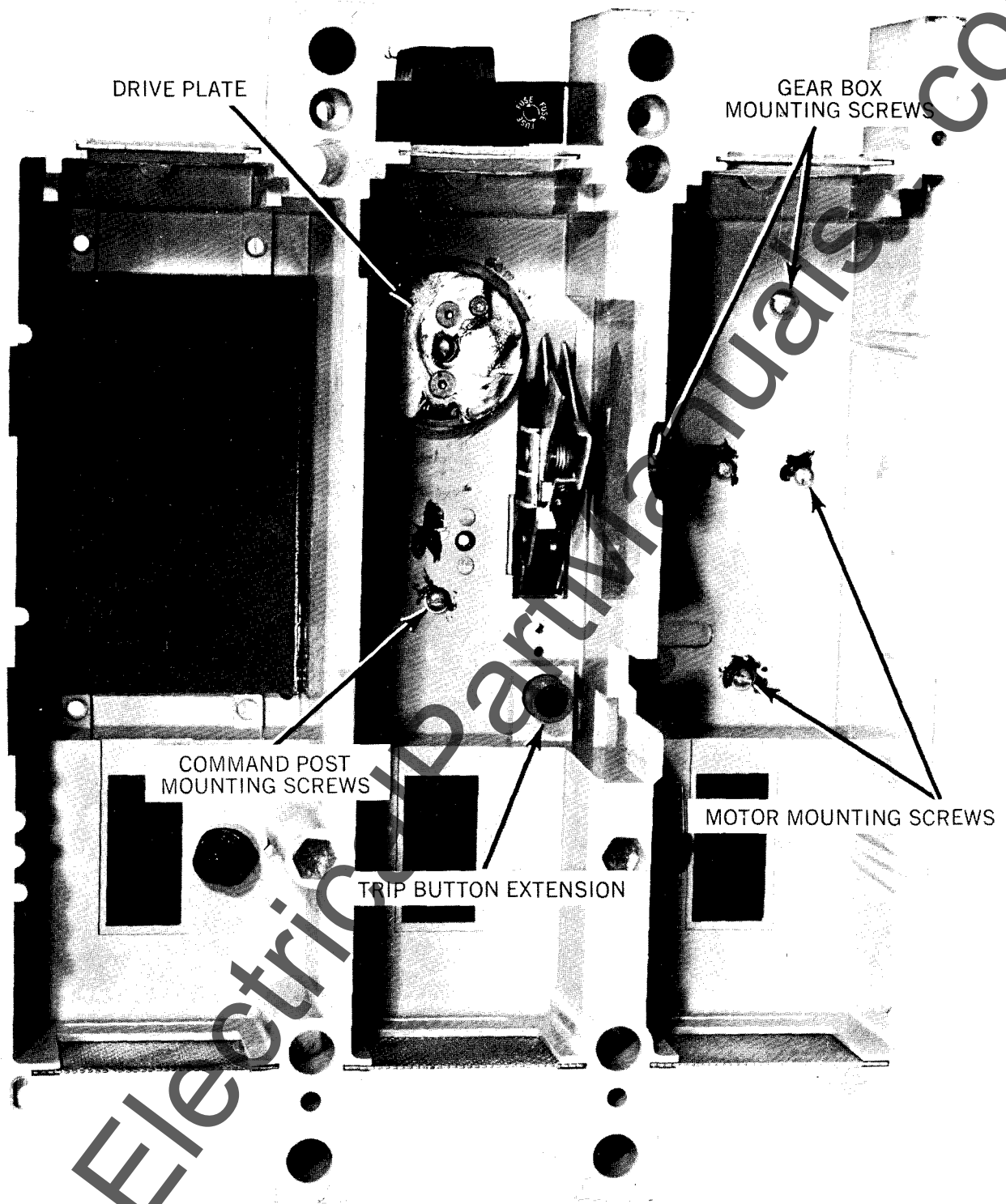


(OLD STYLE)
600-1600 AMPERE POWER BREAK®
ELECTRICALLY OPERATED
COVER ASSEMBLY
Figure 2A

GEF-4458A



600-1600 AMPERE POWER BREAK® (OLD STYLE)
AND
800-2000 AMPERE POWER BREAK®
ELECTRICALLY OPERATED
TOP COVER (INSIDE)
Figure 2B



600-1600 AMPERE POWER BREAK® (OLD STYLE)
AND
800-2000 AMPERE POWER BREAK®
ELECTRICALLY OPERATED
ELECTRICAL OPERATOR MID-COVER ASSEMBLY
(INSIDE)
Figure 2C

GEAR BOX

DRIVE SHAFT AND
HUB ASSEMBLY

2400 DE
FOR BURN

QUALITY AUDIT

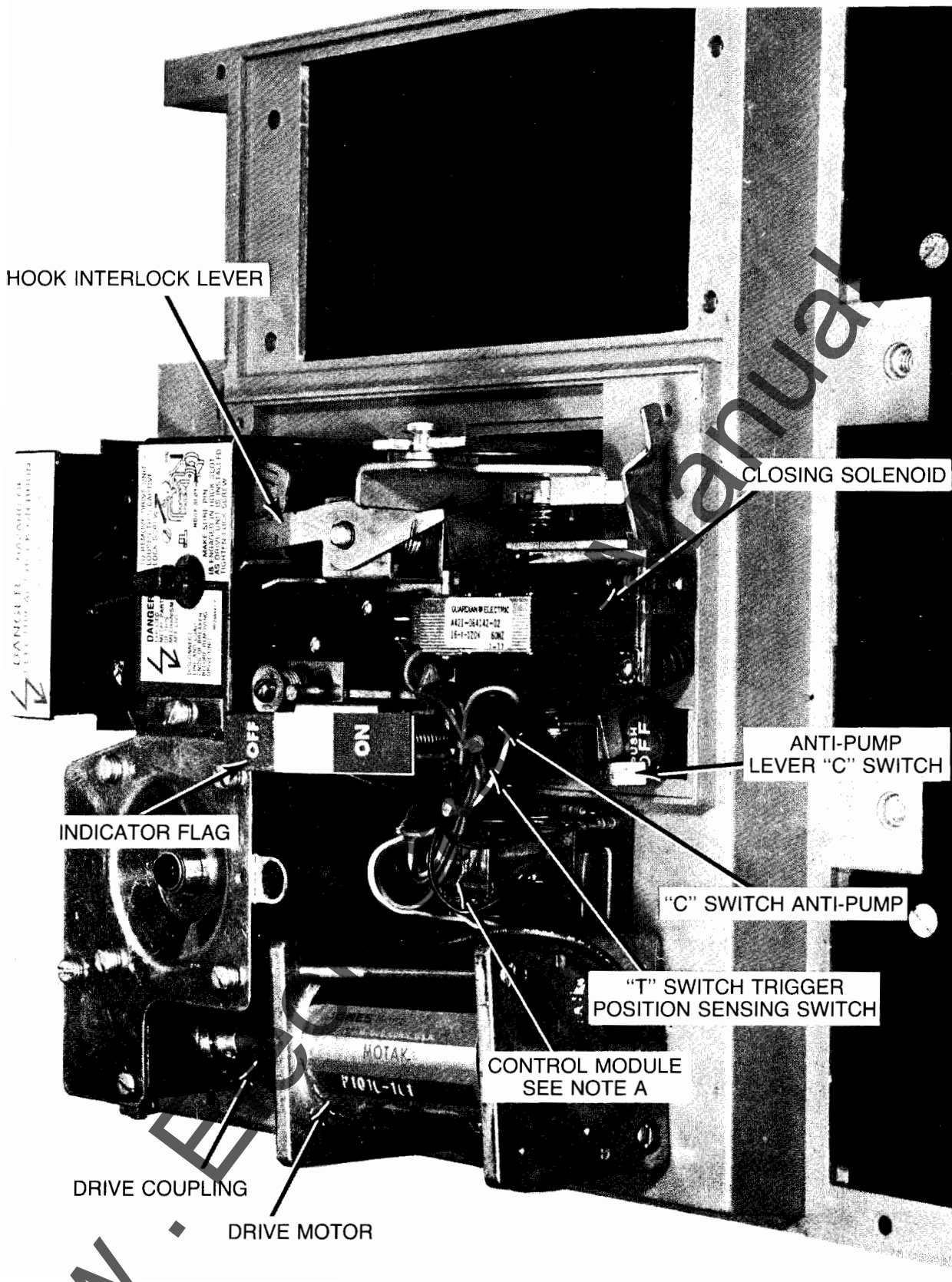
MECHANICAL OPERATION
THERMAL CALIBRATION
MAGNETIC CALIBRATION
ALTERNATE DEVICES
UNDERSTANDING
SHUNT TEST
ALTERNATE DEVICES
UNDERSTANDING
BELL ALARM
MOTOR OPERATED MECH
APPEARANCE
REPAIRS PROOF
REINTERPRETATION
APPLICABLE CHECK

DATES & TEST BY

CROSSBAR HOOK

COVER INTERLOCK

600-1600 AMPERE POWER BREAK® (OLD STYLE)
AND
800-2000 AMPERE POWER BREAK®
ELECTRICAL OPERATOR MID-COVER
(OUTSIDE)
Figure 2D

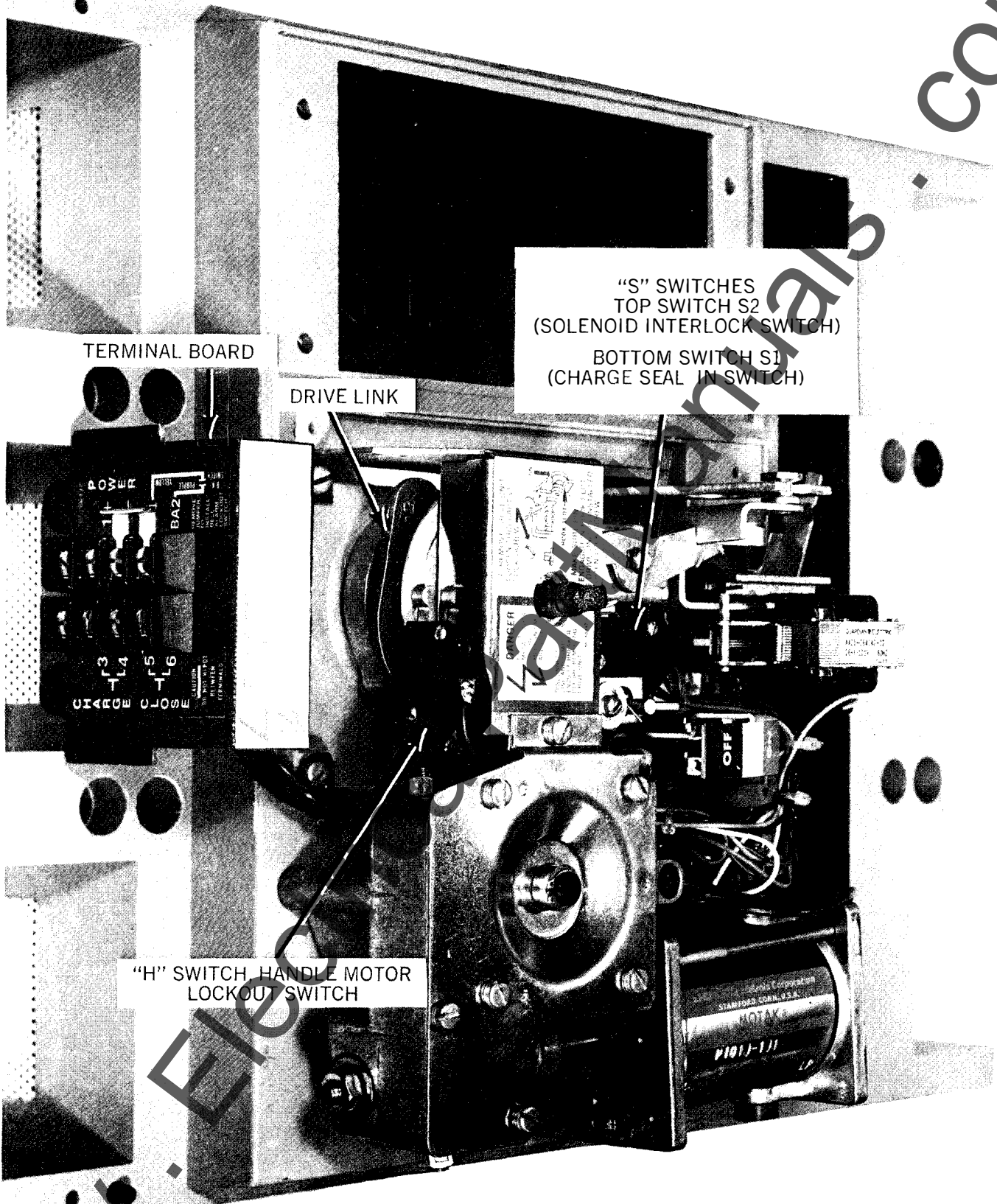


600-1600 AMPERE POWER BREAK® (OLD STYLE)
AND

800-2000 AMPERE POWER BREAK®
ELECTRICAL OPERATOR (LOAD SIDE VIEW)

NOTE A: CONTROL MODULE REPLACED BY P. C. BOARD ON NEWER MODELS.

Figure 2E



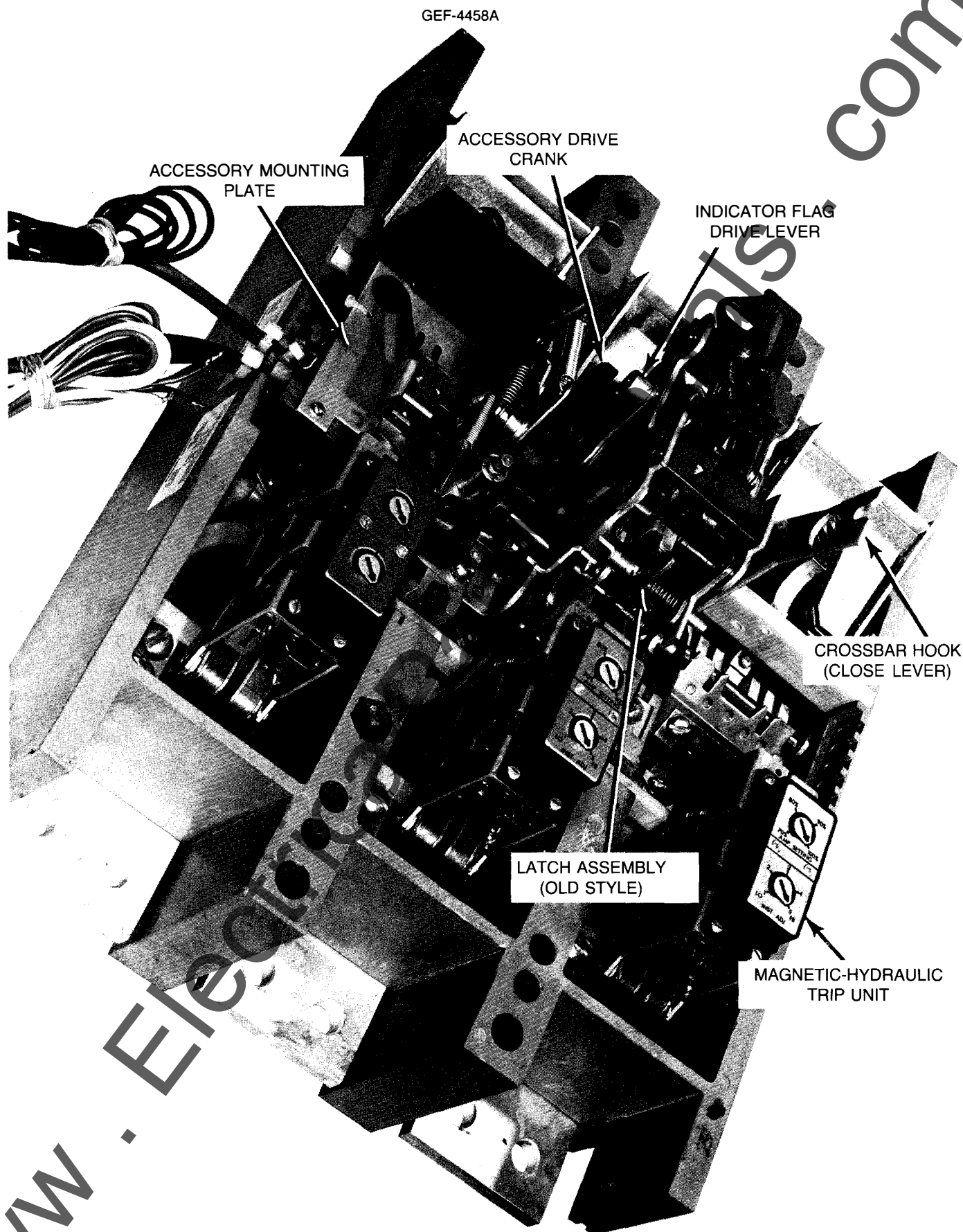
600-1600 AMPERE POWER BREAK® (OLD STYLE)

AND

800-2000 AMPERE POWER BREAK®

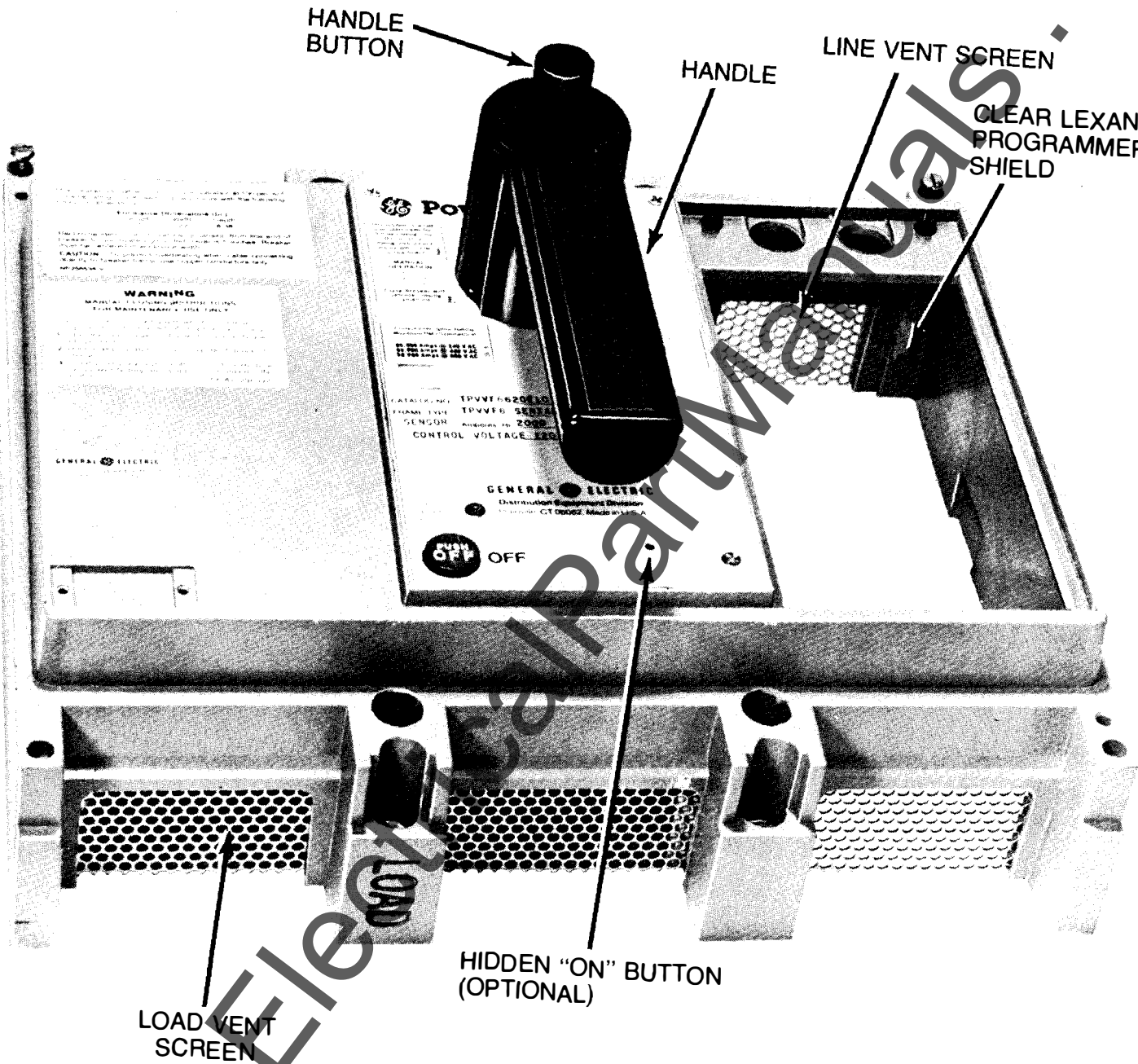
ELECTRICAL OPERATOR (LINE SIDE VIEW)

Figure 2F



1600 AMPERE POWER BREAK®
ELECTRICAL OPERATOR
BASE AND MECHANISM ASSEMBLY

Figure 2G



800-2000 AMPERE POWER BREAK®
ELECTRICALLY OPERATED
COVER ASSEMBLY
Figure 2H

GEF-4458A

TRIP LEVER
"KICKER"

BELL ALARM
(ACCESSORY)

LATCH

PRIMARY
LATCH PIN

SECONDARY
LATCH PIN

MICROVERSATRIP®
PROGRAMMER

ENLARGED VIEW
OF LATCH ASSEMBLY
IN DISCHARGED POSITION
(FLUX SHIFTER OMITTED
FOR CLARITY.)

CROSS BAR HOOK
(CLOSE LEVER)

ACCESSORY
TERMINAL BOARDS

CURRENT
TRANSFORMER

FLUX
SHIFTER

2000 AMPERE POWER BREAK®
ELECTRICALLY OPERATED
BASE AND MECHANISM ASSEMBLY

Figure 21

GEF-4458A

ARC CHUTE ASSEMBLY

RESET ARM

INDICATOR FLAG

TOGGLE PIN ROLLER

(OLD STYLE)
CAM ASSEMBLY

"OFF" BUTTON

LATCH SUPPORT

LATCH

FLUX SHIFTER SUPPORT

2000-4000 AMPERE POWER BREAK®
MANUALLY OPERATED
INTERNAL VIEW—SOLID STATE TRIP UNIT
Figure 3A

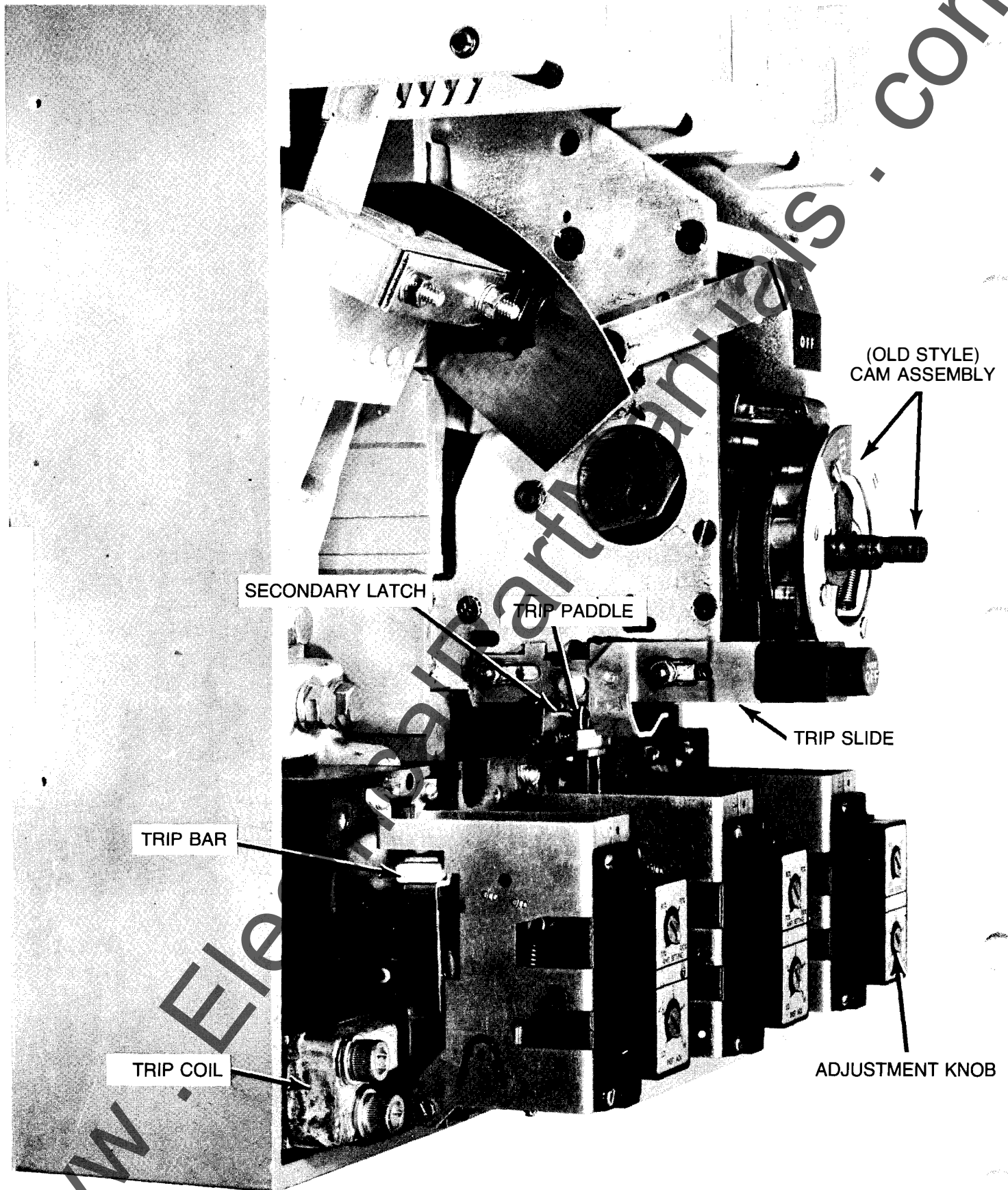
GEF-4458A

VENT SCREEN

HANDLE PLATE

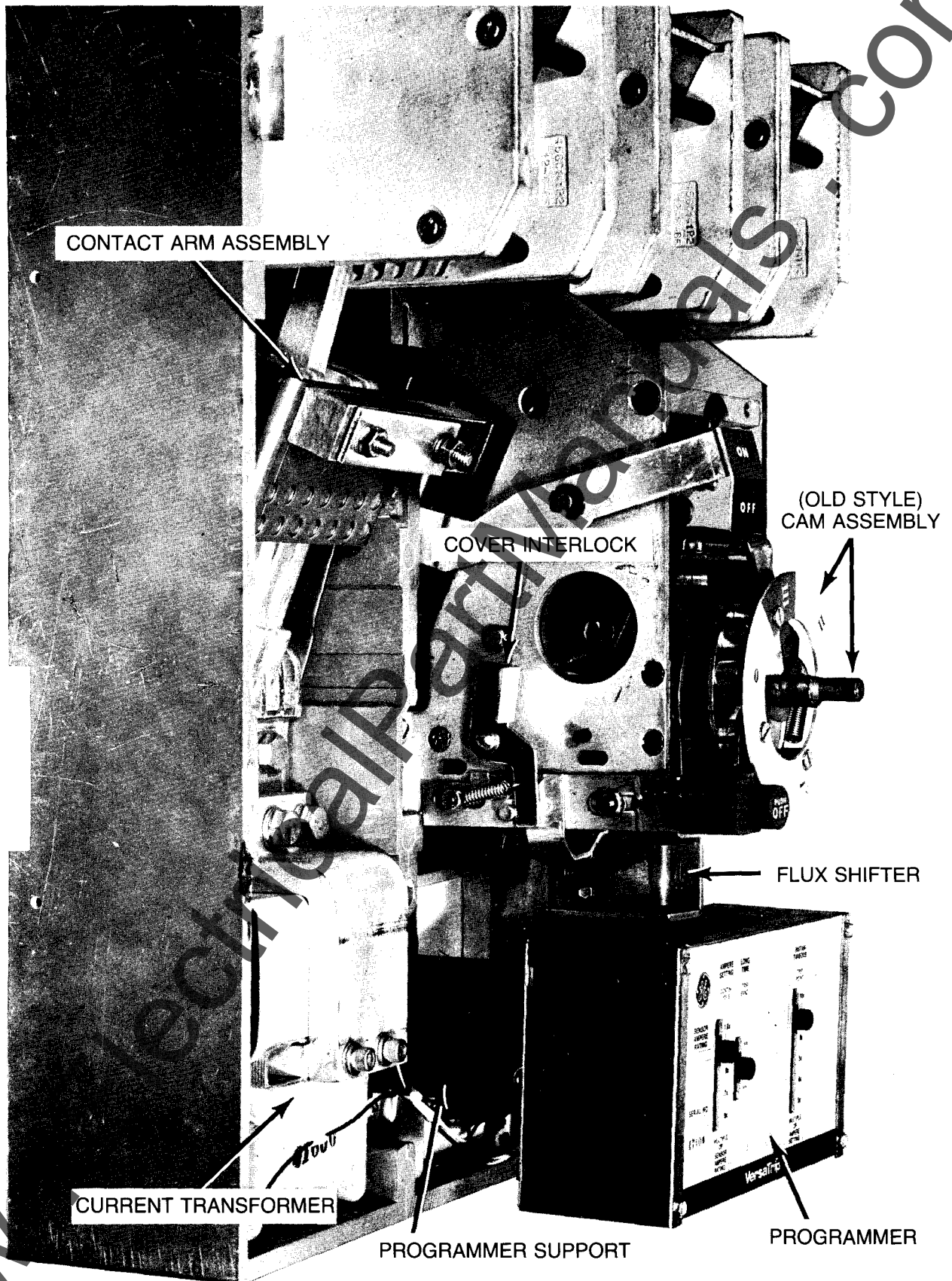
2000-4000 AMPERE POWER BREAK®
MANUALLY OPERATED
COVER (INSIDE)
Figure 3B

GEF-4458A



2000-4000 AMPERE POWER BREAK®
MANUALLY OPERATED
BREAKER MECHANISM
MAGNETIC-HYDRAULIC TRIP UNIT
Figure 3C

GEF-4458A



**2000-4000 AMPERE POWER BREAK®
MANUALLY OPERATED
BREAKER MECHANISM
SOLID STATE TRIP UNIT
Figure 3D**

ARC CHUTE ASSEMBLY

INDICATOR
FLAG

CAM STOP
ASSEMBLY

CAM
ASSEMBLY

CHARGE
INDICATOR

MICROVERSATRIP
PROGRAMMER

FLUX SHIFTER SUPPORT

LATCH

CURRENT
TRANSFORMER

2500-4000 AMPERE POWER BREAK®
MANUALLY OPERATED
BASE AND MECHANISM ASSEMBLY
Figure 3E

GEF-4458A

ELECTRICAL OPERATOR

BASE ASSEMBLY

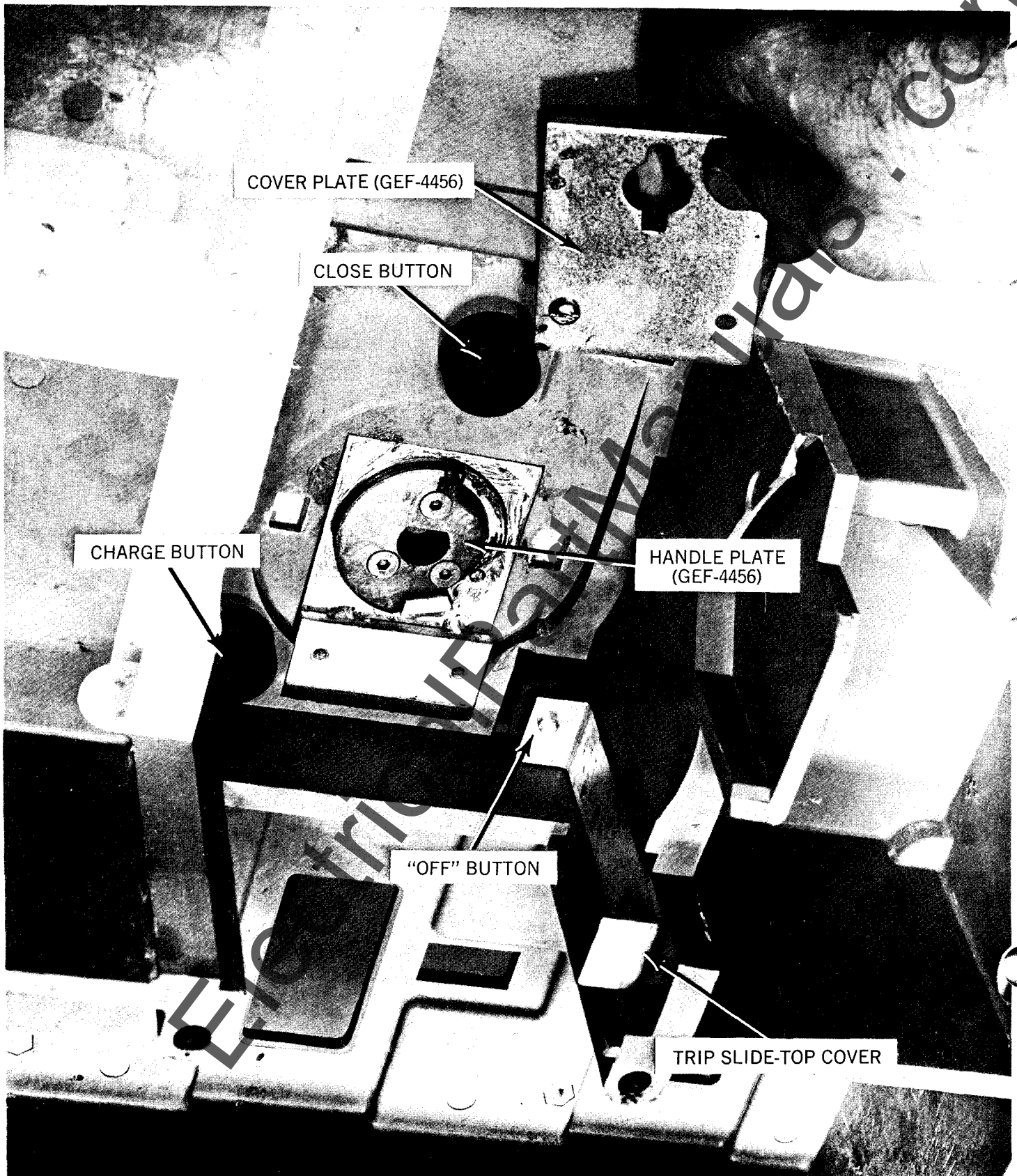
CONTACT STRUCTURE
AND CROSSBAR
ASSEMBLY

BREAKER MECHANISM

TRIP DEVICE
(NOT SHOWN)

INTERMEDIATE COVER

2000-4000 AMPERE POWER BREAK®
ELECTRICALLY OPERATED
BREAKER FRAME & ELECTRICAL OPERATOR ASSEMBLY
Figure 4A



2000-4000 AMPERE POWER BREAK®
ELECTRICALLY OPERATED
TOP COVER (INSIDE)
Figure 4B

GEF-4458A

CROSSBAR HOOK
(NOT REPLACEABLE)

CAM STOP

RESET ARM

(OLD STYLE)
CAM ASSEMBLY
(GEF-4454)
(GEF-4459)

TRIP SLIDE

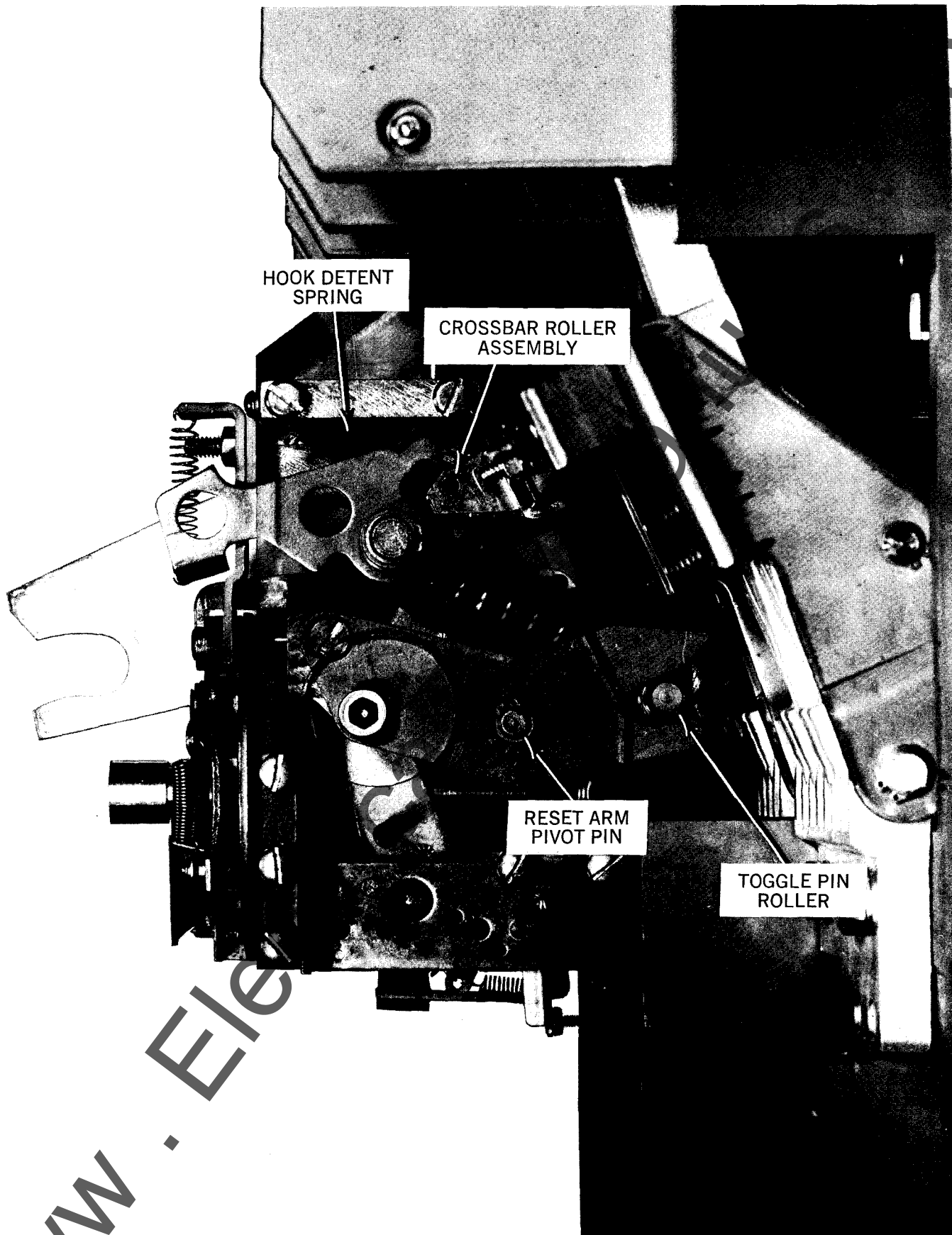
CRADLE RESET PIN

RESET FORK

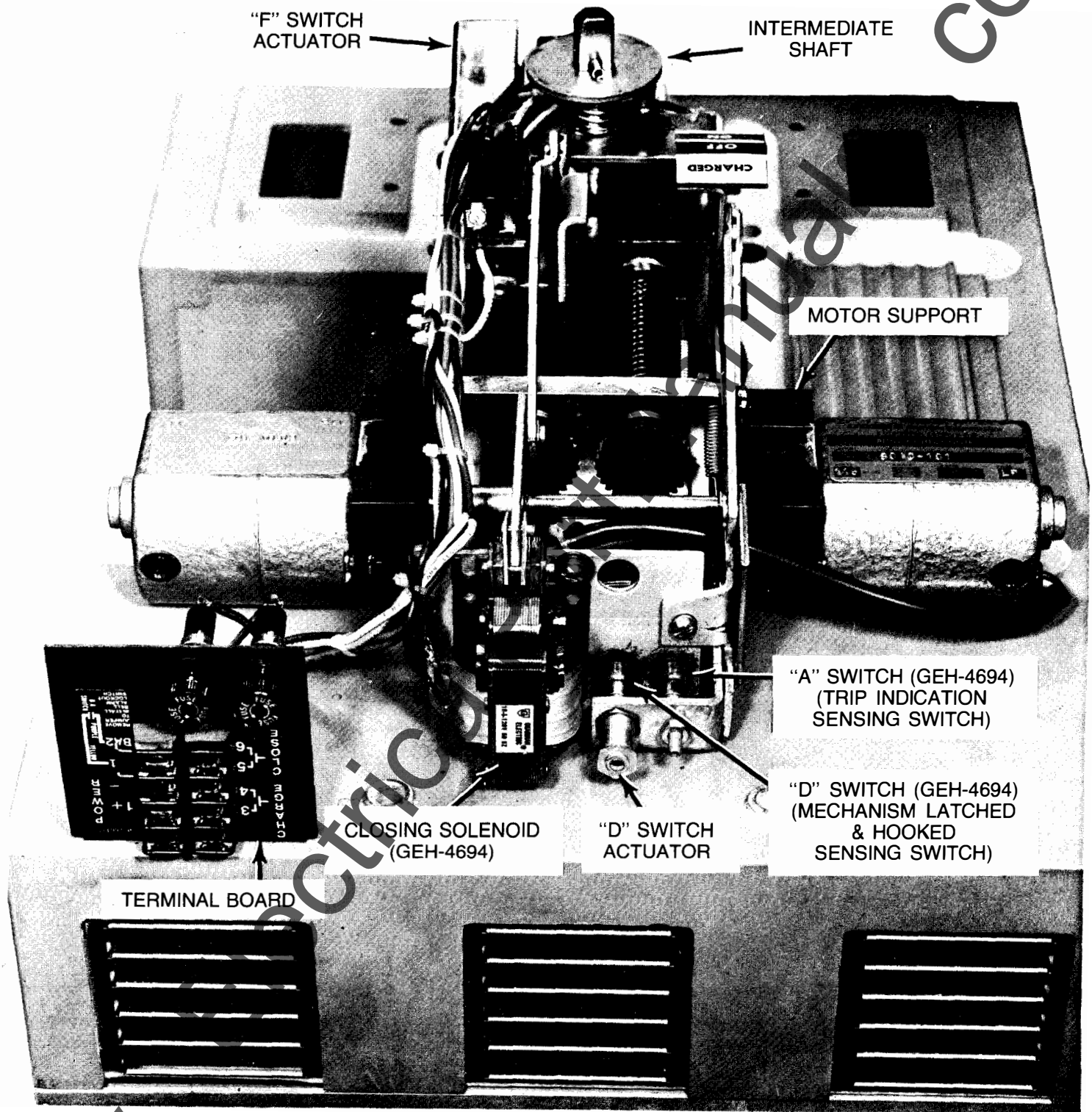
LATCH SUPPORT
(GEF-4459)

LATCH ASSEMBLY
(GEF-4459)

2000-4000 AMPERE POWER BREAK®
ELECTRICALLY OPERATED
BREAKER MECHANISM
Figure 4C



2000-4000 AMPERE POWER BREAK®
ELECTRICALLY OPERATED
BREAKER MECHANISM
Figure 4D



2000-4000 AMPERE POWER BREAK®
ELECTRICALLY OPERATED
AC ELECTRICAL OPERATOR (LINESIDE)
Figure 4E

"B" SWITCH (GEH-4694)
(MOTOR ROTATION
DIRECTION SWITCH)

MOTOR

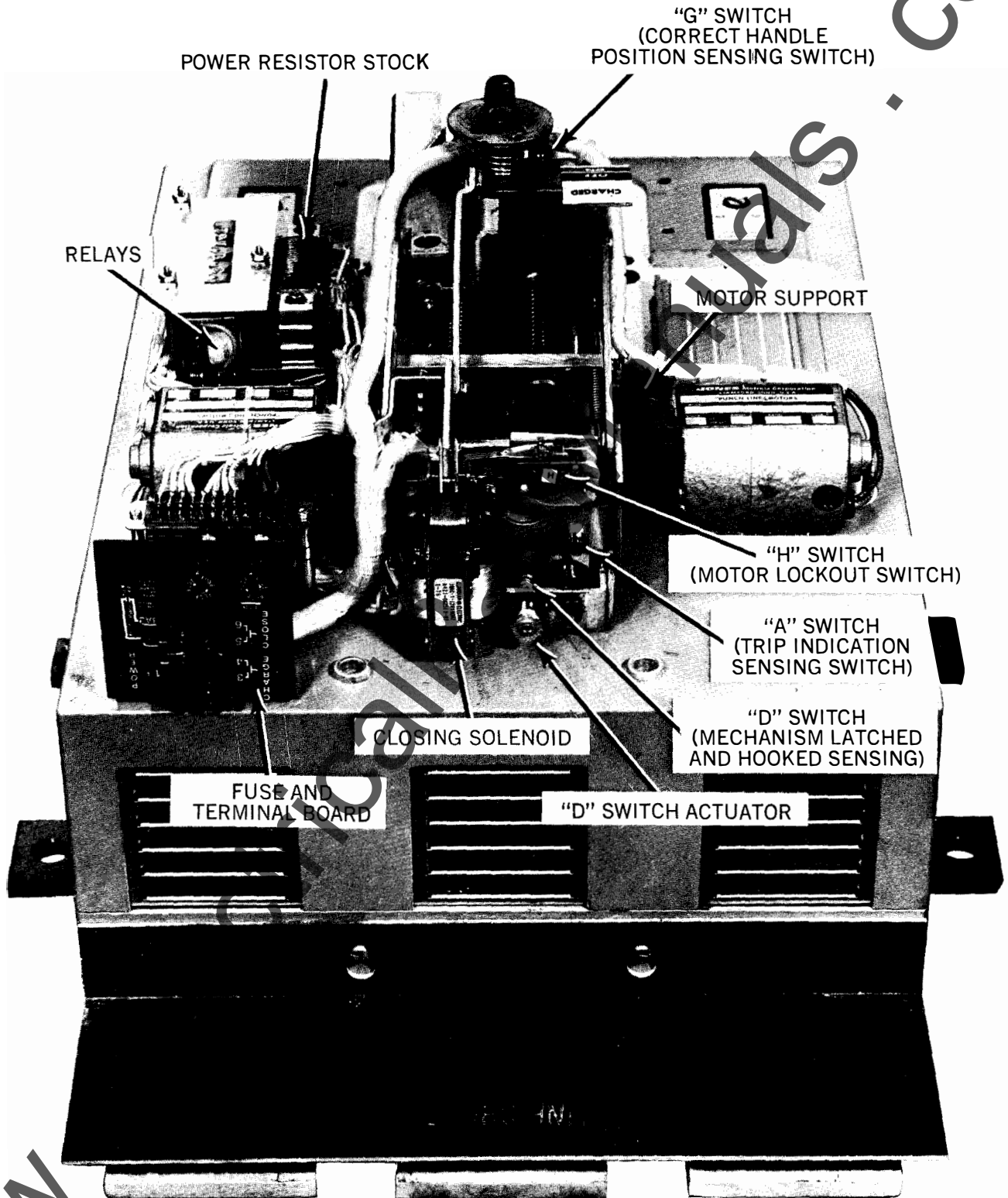
"G" SWITCH (GEH-4694)
(CORRECT HANDLE
POSITION SENSING SWITCH)

"C" SWITCH (GEH-4694)
(CARRIAGE RETRACTED
CUTOFF SWITCH)

"F" SWITCH (GEH-4694)
(CHARGING SWITCH)

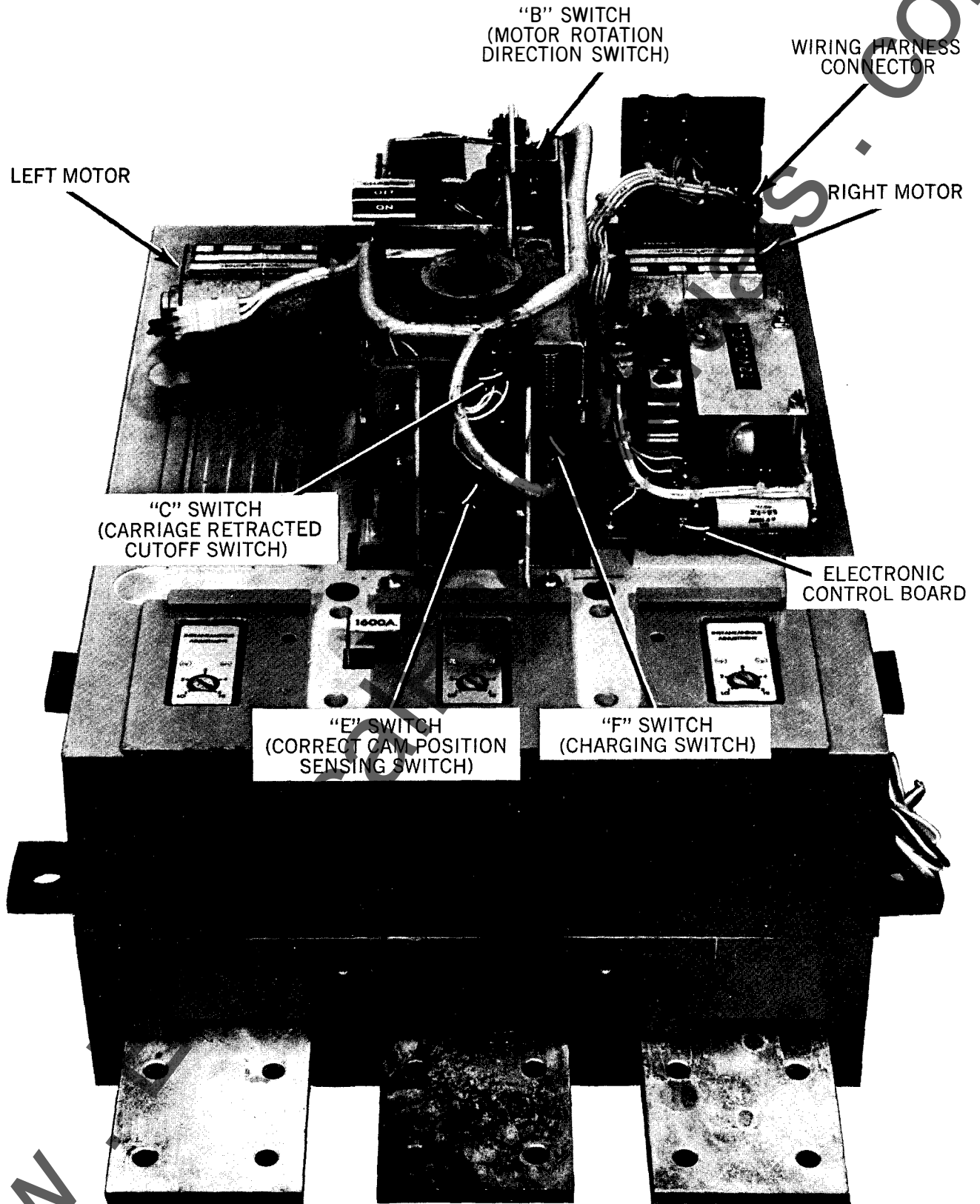
"E" SWITCH (GEH-4694)
(CORRECT CAM
POSITION
SENSING SWITCH)

2000-4000 AMPERE POWER BREAK®
ELECTRICALLY OPERATED
AC ELECTRICAL OPERATOR (LOAD SIDE VIEW)
Figure 4F



2000-4000 AMPERE POWER BREAK®
ELECTRICALLY OPERATED
DC ELECTRICAL OPERATOR—LINE SIDE
Figure 4G

GEF-4458A



2000-4000 AMPERE POWER BREAK®
ELECTRICALLY OPERATED
DC ELECTRICAL OPERATOR—LOAD SIDE
Figure 4H

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These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the General Electric Company.

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