

RENEWAL PARTS



TYPES AK-1-15 AND AK-1-25 POWER CIRCUIT BREAKERS AND TYPE AKF-1B FIELD BREAKERS

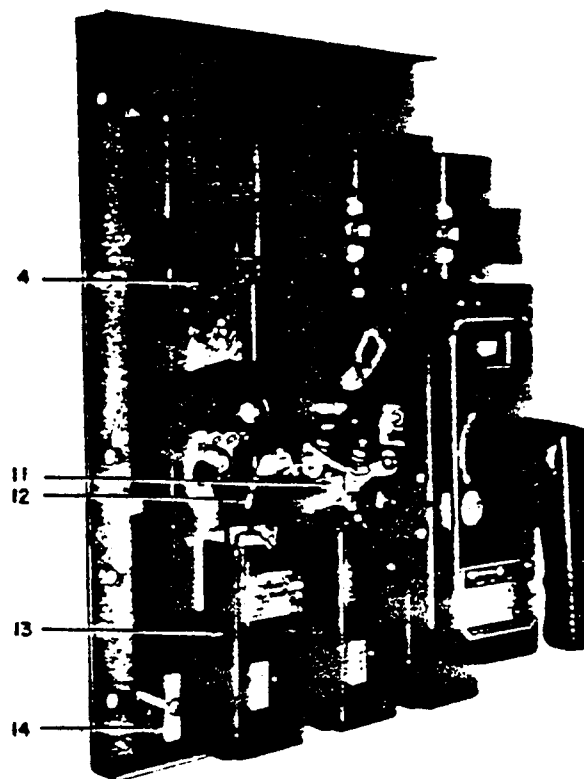


Fig. 1. Type AK-1-25-8 air circuit breaker, manually operated

NOTE: All reference to "right" and "left" designate the location of the part when facing the operating mechanism end of the breaker.

ORDERING INSTRUCTIONS

1. Always specify the complete nameplate data of the breaker.
2. Specify the quantity, catalog number (if listed), reference number (if listed), description, and this bulletin number.
3. **CAUTION:** When local facilities for breaker recalibration are not available, the breaker should be forwarded to the nearest G-E Service Shop, or to the General Electric Company, 6901 Elmwood Ave., Philadelphia 42, Pa.
4. Standard hardware, such as screws, bolts, nuts, washers, etc., is not listed in this bulletin. Such items should be purchased locally.
5. For prices, refer to the nearest office of the General Electric Company.

When ordering renewal parts, give quantity, catalog number, description of each item required, and complete nameplate reading.

GENERAL  ELECTRIC

TYPES AK-1-15 AND AK-1-25 POWER CIRCUIT BREAKERS

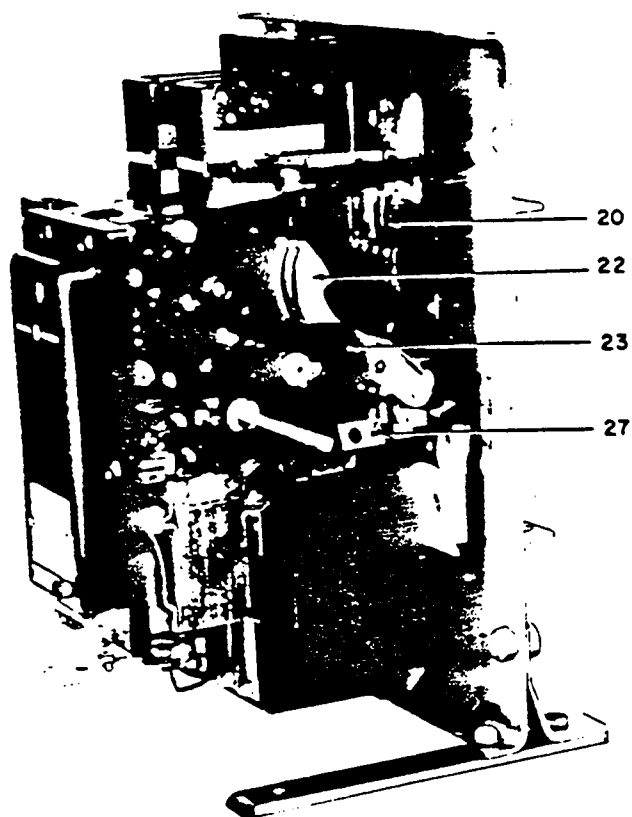


Fig. 2. Type AK-1-15 air circuit breaker, electrically operated. (shunt trip device, terminal board, and right pole overcurrent trip device and arc quencher removed)

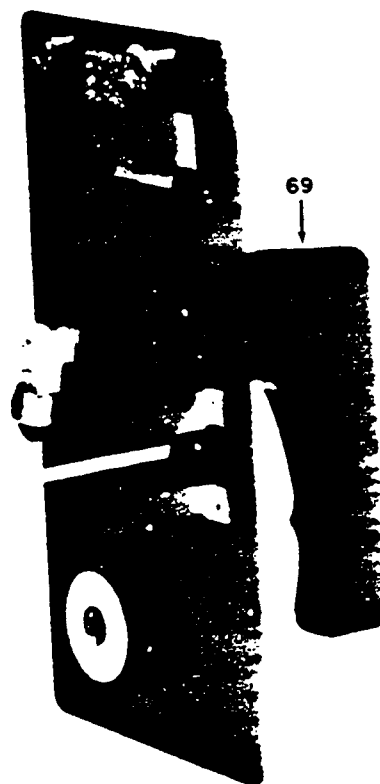


Fig. 3. Manual operating handle and escutcheon (ref. 53)

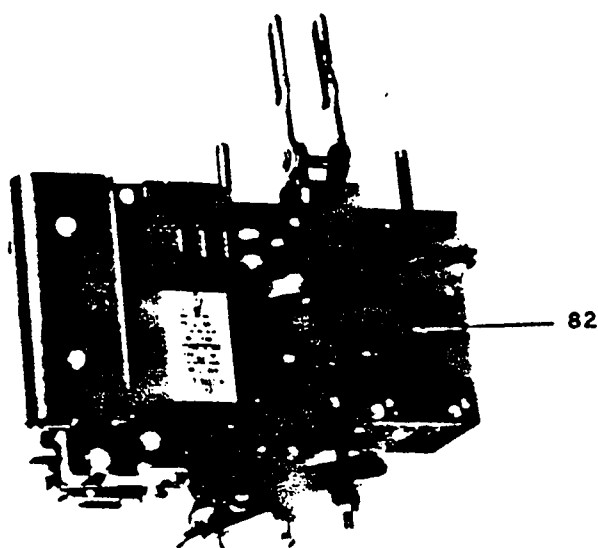


Fig. 4. Solenoid operating mechanism with obsolete control device (ref. 70)

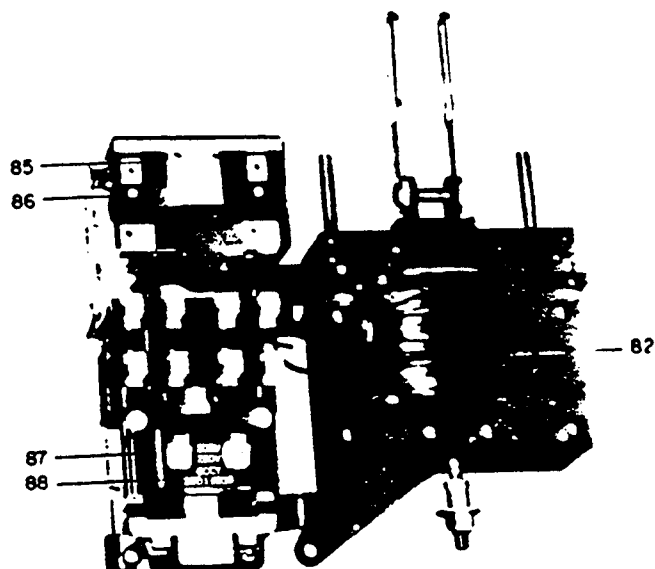


Fig. 5. Solenoid operating mechanism with modern X-Y relay control unit

Fig. No.	Ref. No.	Number Required for 3-pole Breaker																				Catalog Number	Description				
		For Type AK-1-15										For Type AK-1-25															
		1	A	1	2	3	4	5	6	7	8	9	10	1	A	1	2	3	4	5	6			7	8	9	10
1	4	3	3	3	3	3	3	3	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	6414042G3	Arc quencher assembly	
1	4	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	6414042G4	Arc quencher assembly	
1	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6403366	Return spring	
1	12	3	3	3	3	3	3	3	3	3	-	-	3	3	3	3	3	3	3	3	3	3	-	-	386A100G1	Trip paddle for EC-1 trip device	
1	12	-	-	-	-	-	-	-	-	3	3	3	-	-	-	-	-	-	-	-	-	3	3	3	433A272G1	Trip paddle for EC-2 trip device	
1	13	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	β	Overcurrent trip device	
1	14	3	3	3	3	3	3	3	3	3	-	-	3	3	3	3	3	3	3	3	3	3	3	3	6555445P1	Clamp for EC-1 trip device	
1	14	-	-	-	-	-	-	-	-	3	3	3	-	-	-	-	-	-	-	-	-	3	3	3	386A163P1	Clamp for EC-2 trip device	
	*17	9	9	9	9	9	9	9	9	9	9	9	12	12	12	12	12	12	12	12	12	12	12	12	6372917	Stationary contact spring	
	*18	9	9	9	9	9	9	9	9	9	9	9	-	-	-	-	-	-	-	-	-	-	-	-	6248887P1	Stationary contact pin	
	*18	-	-	-	-	-	-	-	-	-	-	-	12	12	12	12	12	12	12	12	12	12	12	12	6248887P2	Stationary contact pin	
2	*22	3	3	3	3	3	3	3	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	6317995G1	Moving contact	
2	*22	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	6317995G2	Moving contact	
2	23	3	3	3	3	3	3	3	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	6317551P4	Insulating link	
2	23	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	6317719P4	Insulating link, outside poles	
2	23	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	6317611P4	Insulating link, center pole	
2	27	3	3	3	3	3	3	3	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	6372794G1	Flexible connection	
2	27	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	6372794G2	Flexible connection	
5	53	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	259C601G-1	Front escutcheon assembly with handle and closing switch	
3	53	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	259C601G-5	Front escutcheon assembly with handle	
3	69	-	-	-	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	1	1	1	1	276B191P1	Handle
4, 5	*82	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	(See page 5)	Closing solenoid coil	
5	85	-	1	-	1	1	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-	-	-	(See page 5)	"Y" relay complete	
5	85	-	-	-	-	-	1	1	1	1	1	1	1	-	-	-	-	1	1	1	1	1	1	1	(See page 5)	"Y" relay complete	
5	*86	-	1	-	1	1	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-	-	-	(See page 5)	Coil	
5	*86	-	-	-	-	-	1	1	1	1	1	1	1	-	-	-	-	1	1	1	1	1	1	1	(See page 5)	Coil	
5	87	-	1	-	1	1	1	1	1	1	1	1	1	-	1	-	1	1	1	1	1	1	1	1	(See page 5)	"X" relay complete	
5	*88	-	1	-	1	1	1	1	1	1	1	1	1	-	1	-	1	1	1	1	1	1	1	1	(See page 5)	Coil	

* Recommended for stock for normal maintenance.

+ Not shown

1 Original breaker had no suffix letter or numeral.

ø When ordering specify complete nameplate data of device being replaced. The only part furnished for the EC-2 device is the case (Cat. No. 242C645P1).

TYPES AK-1-15 AND AK-1-25 POWER CIRCUIT BREAKERS

Rating		Catalog Number		
Volts	Cycles	# Control Device Coil (Ref. 71)	Closing Solenoid Coil (Ref. 82)	
			3-Pole Breakers	FIELD BREAKERS and 4-Pole
48 125 250	D-C	6275081 G38 G36 G37	6275014 G32 G7 G10 ✓	6275014 G23 G24 G15
115 208 230 460 575		G47 G48 G48 G41 G43	G9 G29 G6 G1 G31	- 6275014 G31
115 208 230 380 460 575	50	G44 G39 G39 G34 G40 G42	G23 G30 G9 G25 G25 G15	- -
115 208 230 460 575		G32 G33 G33 G34 G35	G13 G19 G3 G25 G6	6275014 G27 G28 G8 - - - - - - - - - -

Ø Not shown.

Rating		Catalog Number				
Volts	Cycles	"X" Relay for: AK-1-15, A-2 to -10 AK01-25, A-2 to -10		"Y" Relay for: AK-1-15, -4 to -9 AK-1-25, -4 to -9		"Y" Relay for AK-1-15-10 AK-1-25-10
		Relay Complete (Ref. 87)	Coil only (Ref. 88)	Relay Complete (Ref. 85)	Coil only (Ref. 86)	Relay Complete (Ref. 85)
125 250	D-C	CR-2810-A14AC2 CR-2810-A14AC3	22D135G2 22D135G3	184L379G4 184L379G5 ✓	366A716G4 366A716G5 ✓	295B444P3 295B444P4
115 208 230		CR-2810-A14AC17 CR-2810-A14AC18 CR-2810-A14AC18	22D135G17 22D135G18 22D135G18	184L379G8 184L379G11 184L379G14	366A716G2 366A716G6 366A716G3	295B444P7 295B444P10 295B444P13
115 208 230 460	50	CR-2810-A14AC7 CR-2810-A14AC8 CR-2810-A14AC8 CR-2810-A14AC9	22D135G7 22D135G8 22D135G8 22D135G9	184L379G7 184L379G10 184L379G13 184L379G17	366A716G1 366A716G2 366A716G2 366A716G3	295B444P5 295B444P8 295B444P11 295B444P14
115 208 230 460		CR-2810-A14AC2 CR-2810-A14AC3 CR-2810-A14AC3 CR-2810-A14AC4	22D135G2 22D135G3 22D135G3 22D135G4	184L379G6 184L379G9 184L379G12 184L379G16	366A716G1 366A716G2 366A716G2 366A716G3	295B444P5 295B444P8 295B444P11 295B444P14

§ Coils for "Y" relays on AK-1-15-2, -3 and AK-1-25-2, -3 are no longer available. If necessary to replace this coil the

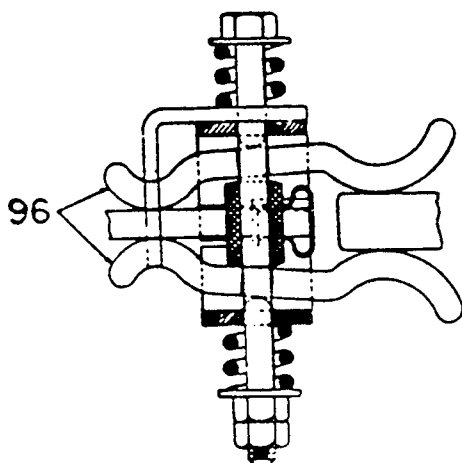
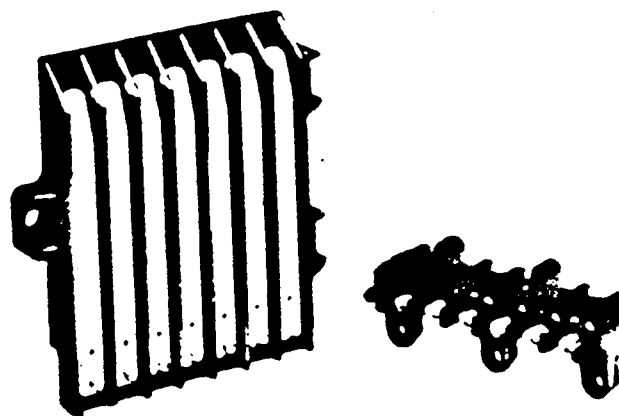


Fig. 6. Primary disconnect



(PHOTO 8016254)

Fig. 7. Secondary disconnect. Stationary, left; moving, right (ref. 97, 98)

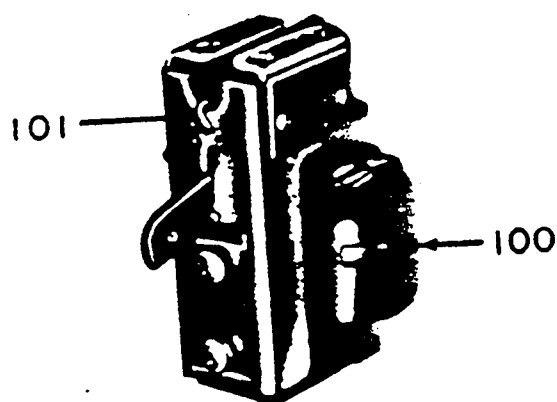
Ref. No.	Catalog Number	Description
96	§ 453A100P2	Contact
97	Δ 6523600G2	Secondary disconnect, stationary, for drawout breaker
98	Δ 386A110G2	Secondary disconnect, movable, for drawout breaker /
99	(See page 6)	Shunt trip device
*100	(See page 6)	Coil
101	365A325	Spring
102	(See page 6)	Undervoltage device
*103	(See page 6)	Coil
104	6172594	Spring

* Recommended for stock for normal maintenance.

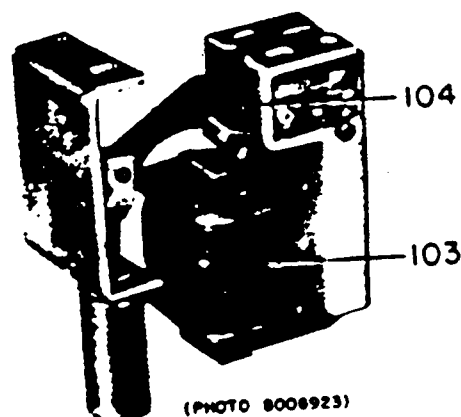
§ Eight required per pole.

Δ Breaker may have up to four.

TYPES AK-1-15 AND AK-1-25 POWER CIRCUIT BREAKERS



(ART PBA-35039)

Fig. 8. Shunt trip device
(ref. 99)

(PHOTO 8008923)

Fig. 9. Time delay under-
voltage device (ref. 102)

Rating		Catalog Number			
Volts	Cycles	Shunt Trip Device		Undervoltage Device	
		Device less Coil (Ref. 99)	Coil Only (Ref. 100)	Device less Coil (Ref. 102)	Coil Only (Ref. 103)
12 24 48 125 155 250	D-C	622C502G1 For replacement of existing device only	6275081G25 6275081G55 6275081G28 6275081G29 ----- 6275081G30	269C282G5 (inst.) Δ - or - (time) For replacement of existing device only	----- 6275081G15 6275081G9 6275081G18 6275081G57 6275081G19
115 208 230 460 575	25		6275081G26 6275081G29 6275081G29 6275081G7 6275081G5	269C282G2 (inst.) - or - Δ (time) For replacement of existing device only	6275081G12 6275081G10 6275081G10 6275081G17 6275081G21
115 208 230 460 575	50		6275081G24 6275081G26 6275081G26 6275081G4 6275081G29		6275081G4 6275081G12 6275081G12 6275081G3 6275081G8
115 208 230 460 575	60		6275081G25 6275081G26 6275081G28 6275081G27 6275081G7		6275081G26 6275081G27 6275081G7 6275081G31 6275081G20

Δ When ordering time delay undervoltage devices the following information must be included:

- (1) Complete nameplate reading of breaker involved.
- (2) Desired voltage rating of device, whether a-c or d-c and if a-c the frequency.

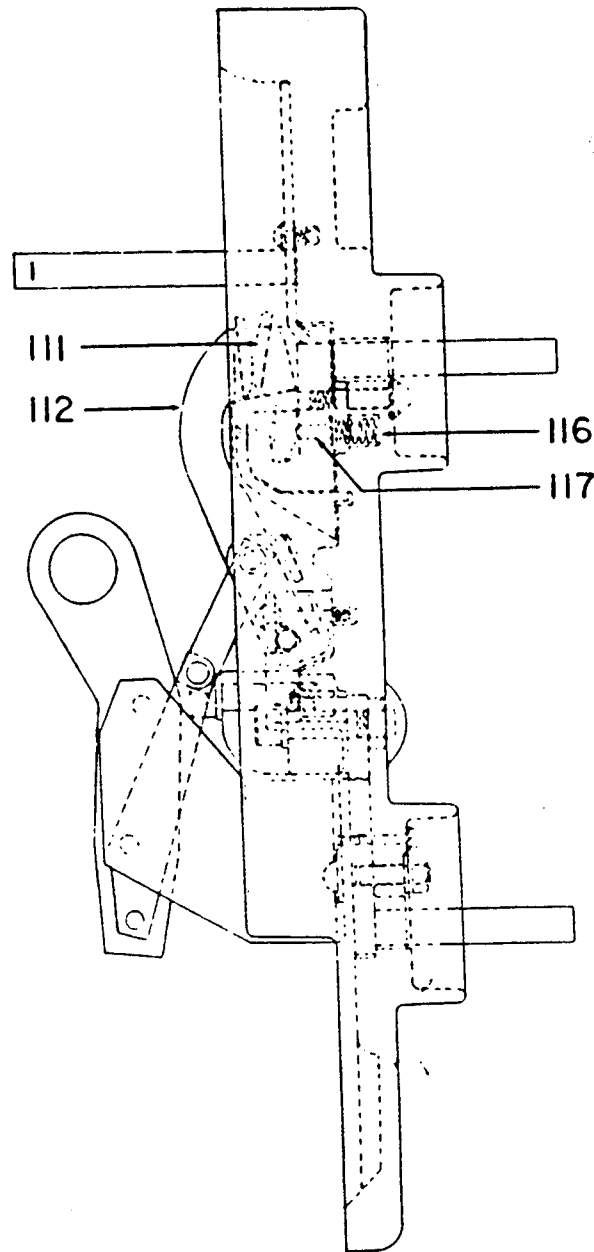


Fig. 10. Field discharge (middle) pole of type AKF-1B field breaker

Ref. No.	TYPES AKF-1B TO AKF-1B-5				TYPES AKF-1B-6 TO AKF-1B-10				Description
	Center Pole		Each Outside Pole		Center Pole		Each Outside Pole		
	Catalog Number	No. Req.	Catalog Number	No. Req.	Catalog Number	No. Req.	Catalog Number	No. Req.	
111	6372777G2	2	6372777G2	4	372A363G2	1	372A363G2	4	Stationary contact
112	6317995G3	1	6317995G2	1	372A363G3	1			Moving contact assembly
†113	-----	-	6317719P4	1	6317995G5	1	6317995G6	1	Insulating link
116	6403324	2	6372917	4	-----	-	6317719P4	2	Stationary contact spring
117	6248887P2	2	6248887P2	4	365A349	2	365A315	4	Spring pin
					372A367P2	2	372A367P2	4	

† Not shown

TYPES AK-1-15 AND AK-1-25 POWER CIRCUIT BREAKERS

The following tools are recommended for proper maintenance of the AK-1-15 and AK-1-25 Air Circuit Breakers. NOTE: Obtain from local hardware firm; do not order on General Electric Co.

SCREW DRIVERS

Short heavy, slotted screw
Standard, slotted screw
Long thin, slotted screw
Phillips, No. 1
Phillips, No. 2 (8 in. shaft)
Phillips, No. 3

PLIERS

Gas, 8 in.
Pointed nose, side cutting, 6 in.
Waldes Truar, No. 2, straight
Waldes Truar, No. 2, 90 degree

END WRENCHES

Adjustable, 8 in.
1/4 in. - 5/16 in., open ends
5/16 in. - 11/32 in., open ends
3/8 in. - 7/16 in., open ends
1/2 in. - 9/16 in., open ends
5/8 in. - 3/4 in., open ends

SOCKET WRENCHES (1/2 IN. DRIVE)

Ratchet handle
10 in. extension bar
6 in. extension bar
7/16 in. socket
9/16 in. socket
5/8 in. socket
3/4 in. socket
13/16 in. socket
15/16 in. socket

ALLEN HEAD WRENCHES

1/16 in., for No. 6 screw
5/64 in., for No. 8 screw
3/32 in., for No. 10 screw
1/8 in., for 1/4 in. screw
5/16 in., for 3/8 in. screw

MISCELLANEOUS

Ball peen hammer, 8 ounce
"Spintite" wrench, 3/8 in.
Open box wrench, 6 point, 5/8 in.

GENERAL ELECTRIC COMPANY
LOW VOLTAGE SWITCHGEAR DEPARTMENT
PHILADELPHIA, PA. 19142

GENERAL  ELECTRIC