

I-T-E CIRCUIT BREAKER COMPANY FACTORY SPECIFICATIONS

SPEC. NO. **TD-5048**

SECTION **1**

PAGE **1** OF **2**

REV. **L**

TYPE **KD** MODEL **A** 1955

COMPILED **QEH** CHECKED **GT** APPROVED **[Signature]**

DATE **4-1-55** DATE **5-19-55** DATE **2-20-55**

SPECIFICATION NO. TD-5048

TYPE KD MODEL A

MAINTENANCE - INSTRUCTION BOOK IB-5528

SOME PAGES ARE MISSING
ON THIS SPEC.

CONTINUOUS RATING: - CURRENT - 2000A. TO 3000 A. AC.
2000A TO 5000 A. DC.

VOLTAGE - 600 V. AC. & 250 V. DC.

INTERRUPTING RATING: -
240 V. AC. - 100,000 A INST. TRIP, 75,000 T. D. TRIP.
480 & 600 V. AC. - 75,000 A INST. TRIP & T. D. TRIP.

Any variation from these specifications requires
Engineering Department approval.

FOR FACTORY INTERNAL USE ONLY

REVISIONS

1 ADDED IB-5528 G.P. 2.42

* = TEST ACTIVITY CODE

E = EACH DEVICE M = MONTHLY

W = WEEKLY 3M = QUARTERLY

2W = BIWEEKLY

I-T-E CIRCUIT BREAKER COMPANY

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* - TEST ACTIVITY CODE

E = EACH DEVICE M = MONTHLY

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A-Adjustments

- (1) As a starting point only, turn adjusting screw "A" on left hand pole until $3 - 1/16$ inch is obtained as shown.
- (2) Close breaker until the first pole arcing contact just touch, then adjust the other pole arcing contacts by screw "A" until all three arcing contacts touch within $1/16$ inch.

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TYPE KD MODEL A (1955)

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CH'D.
DATE

APP.
DATE

2. CONTACTS (continued)

- (3) Complete closing breaker and turn connecting link "B" for each pole to obtain a minimum of .060 inch at point "C" between the moving main contact and its stop pin for the left and right hand contacts for each pole.

Deflect the lower stationary main contacts to insure the main contact springs are not potting.

- (4) When the arcing contacts just touch, there should be a minimum of 3/32 inch air gap between the shunt contacts.

- (5) When the breaker is completely open, there must be at least 1 13/16 inch between the arcing contacts as shown.

B. Millivolt Drop Test

The circuit breaker shall be fully adjusted and all contacts cleaned.

The millivolt values given below are maximum values and shall not be exceeded:

CURRENT
EQUALS
1600 AMPS
D.C.

1. Overall, measured on back of breaker = 50 MV
2. Main bridges, (with arcing and shunt contacts insulated with varnished cambric) measured at front of breaker = 45 MV.

CURRENT
EQUALS
250 AMPS.
D.C.

3. Shunt contacts (mains and arcing contacts insulated) measured at front of breaker = 38 MV.
4. Arcing contacts (mains and shunt contacts insulated) measured at front of breaker = 45 MV.

REVISIONS

1. Rep. Section 2.2-6.1 G.P.

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COMPILED GEH CHECKED GT APPROVED C. M. C.
DATE 4-1-55 DATE 5-19-55 DATE 7-20-55

REV. 0

3. OPERATING MECHANISM

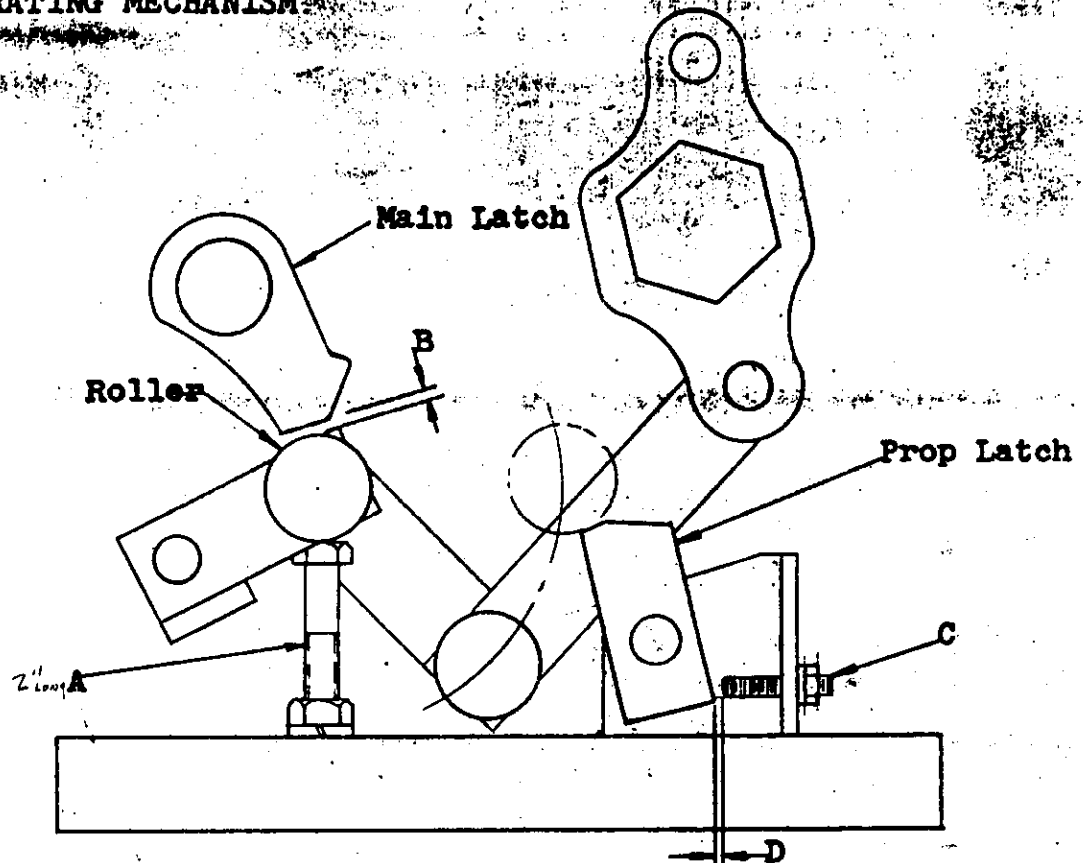


FIG. 3-1

- A. Main Latch Adjustment
Adjust "A" (Fig. 3-1) so that clearance at "B" is .010 to .020.
- B. Prop Latch Adjustment
Adjust "C" (Fig. 3-1) so that with .093" feeler at "D", roller slips & .060" feeler at "D", roller holds.

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COMPILED GKH CHECKED GT APPROVED [Signature]
DATE 4-1-55 DATE 5-19-55 DATE 7-28-55

REV. 0

3. OPERATING MECHANISM (continued)

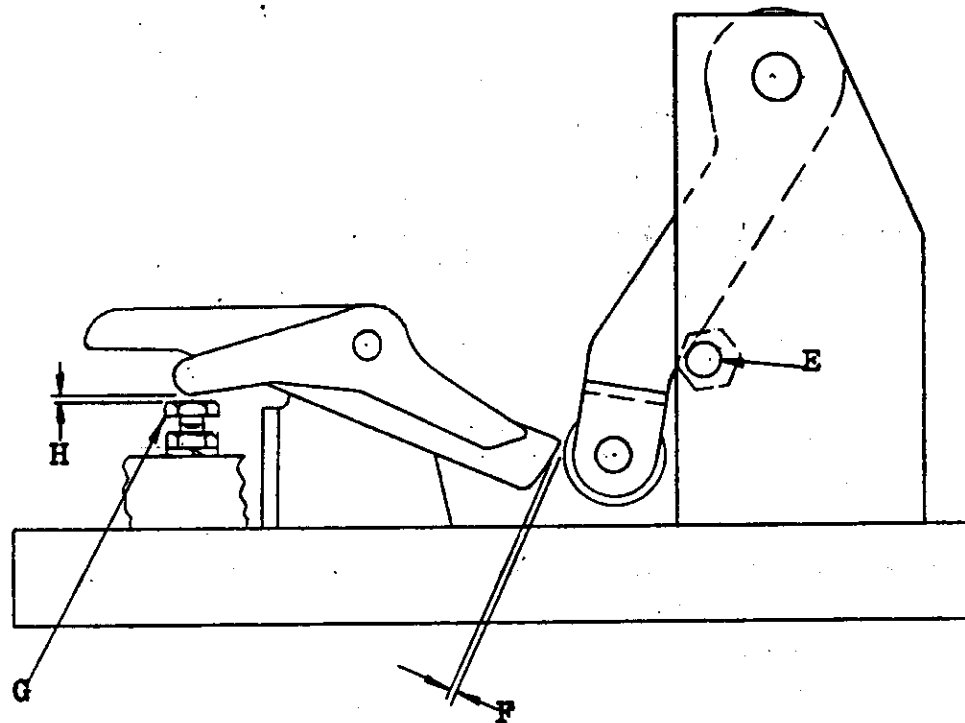


FIG. 3-2

- C. Bearing and Secondary Latch
Adjust eccentric stud "E" (Fig. 3-2) so that clearance "F" between latch and roller is .005 to .020, with breaker open.
- D. Secondary Latch Bite
Adjust "G" (Fig. 3-2) so breaker may be closed with .047 but not with .055 feeler at "H". Tighten locknut and recheck.

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3. OPERATING MECHANISM (continued)

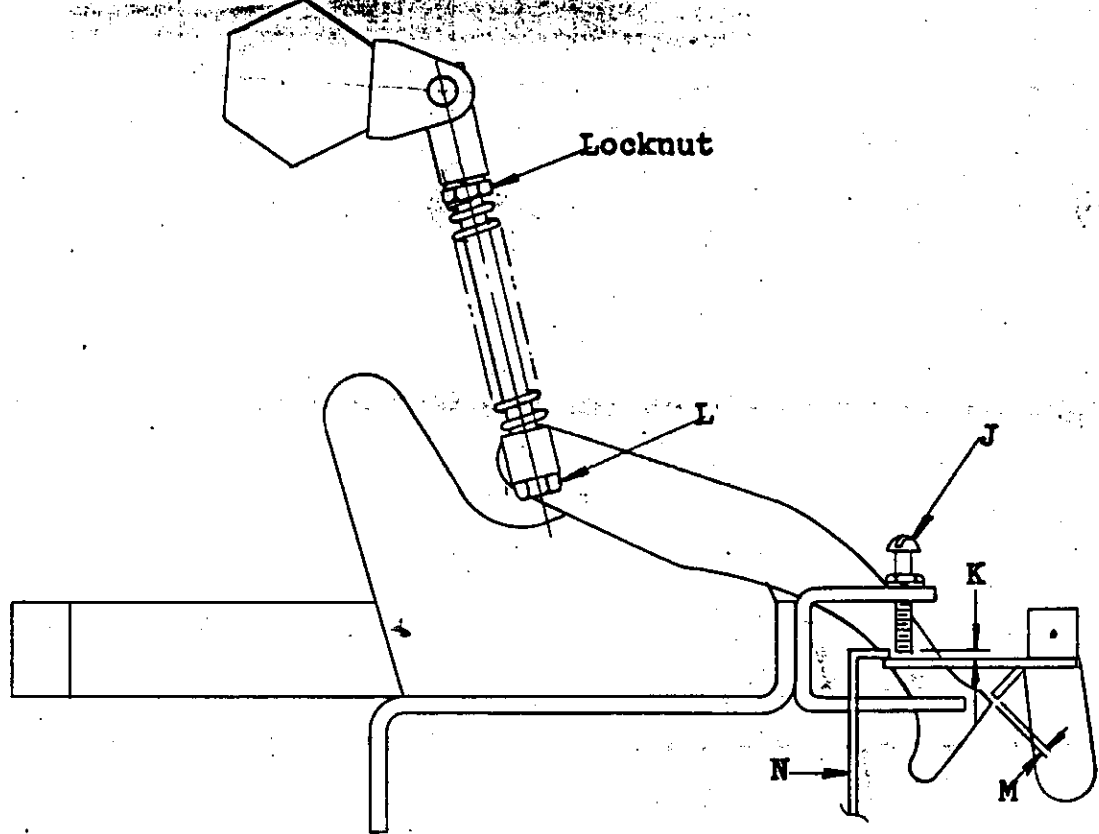


FIG. 3-3

E. Tripper Bar Adjustment

With .075 feeler at "K" (Fig. 3-3) turn in "J" until tripper bar latch slips off. With .065 feeler in place, tripper bar latch should remain closed. Lock screw in place and recheck.

F. Impact Latch Adjustment

Turn "L" (Fig. 3-1) until "M" is .050 to .070. Lock screw in place and recheck.

G. Tripper Bar Loads

- (1) Initial spring pull 4 to 8 ounces measured at "N" breaker open.
- (2) Pull at "N" to trip closed breaker; 2, 3, or 4 pole breaker 12 to 18 ounces.

H. Latch Reset

- (1) Latch to reset under all conditions.

J. Tripper Bar Creep

- (1) Not to exceed .040 max. measured at "K".

REVISIONS

1. 35,075 WAS 117,065 WAS
096,030 4 TO 8 WAS 8 TO 18
8 12 TO 18 WAS 12 TO 24 11-1-55

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2W = BIWEEKLY S = Spot Check

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3. OPERATING MECHANISM (continued)

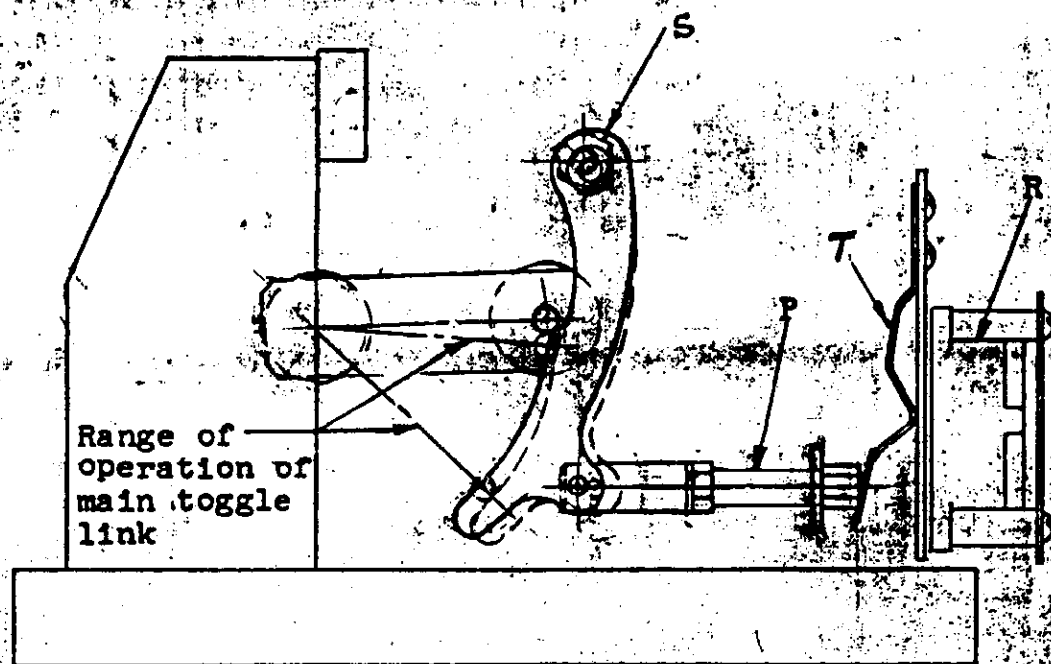


FIG. 3-4

K. Cutout Switch Adjustments

- (1) Adjust eccentric "S", so that when main toggle pin is operated within range of operation indicated, cut-out switch actuator does not move in either direction MORE THAN .010. With breaker in closed position "P" should move $1/8$ " min.
- (2) Adjust "P" so that the normally open switch "R" is closed just before the secondary latch resets from the trip free position.
- (3) With the circuit breaker in the closed position, switch "R" must be open. Switch "R" must re-open after being closed by pushing spring "T" by hand. Switch "R" must not be open in any other position of the circuit breaker.

REVISIONS

1	12-20-55	GRH
2	12-28-55	GRH

*TEST ACTIVITY CODE

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2W = BIWEEKLY

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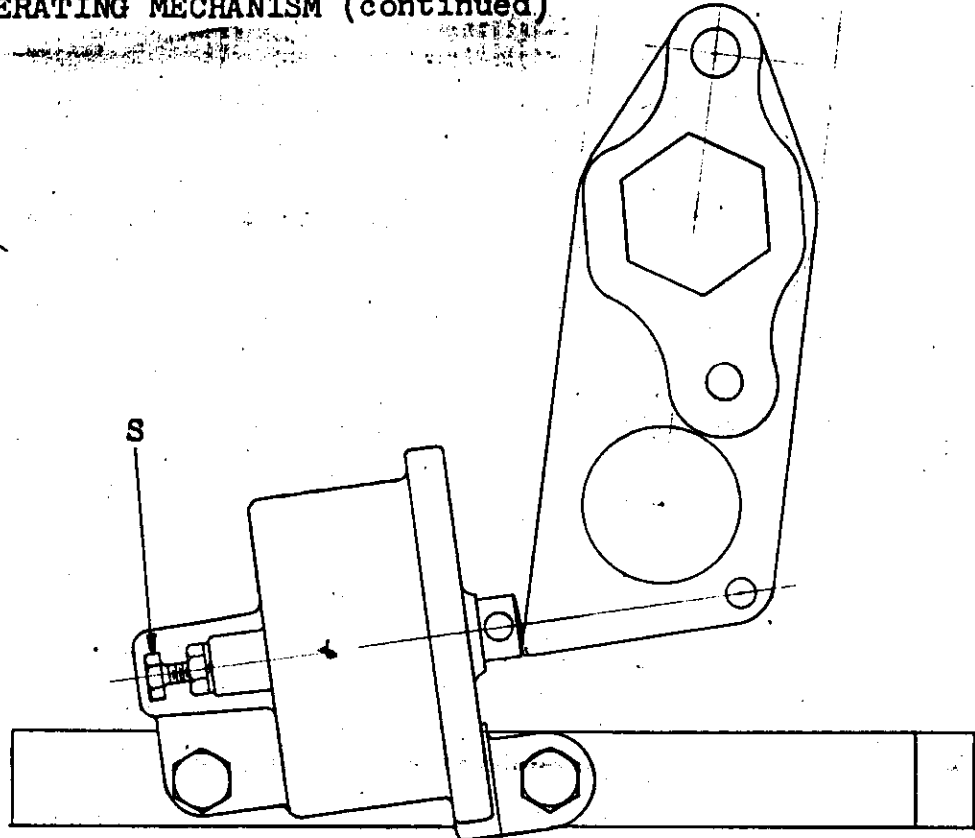
PAGE **5** OF **5**

TYPE **KD** MODEL **A** 1955

COMPILED **GEH** CHECKED **GT** APPROVED **[Signature]**
DATE **4-1-55** DATE **5-19-55** DATE **7-20-55**

REV. **0**

3. OPERATING MECHANISM (continued)



L. Buffer Adjustment

FIG. 3-5

Adjust screw "S" (Fig. 3-5) until contact arm bounce is 10% or less of total stroke. Lock screw "S" in place and recheck.

REVISIONS

*-TEST ACTIVITY CODE

E = EACH DEVICE M = MONTHLY

W = WEEKLY 3M = QUARTERLY

2W = BIWEEKLY

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4. OVERCURRENT TRIP DEVICES, OD-1 & OD-2

A. General

- (1) Calibration current connections extend perpendicularly behind breaker panel 12 inches minimum.
- (2) Device pickup values per bill of material. Calibration tolerance $\pm 5\%$ for settings below 20 times coil rating, $\pm 10\%$ for higher settings.
- (3) Current "drag off" no more than minimum calibration value.
- (4) Consider stray flux effect from neighboring main current carrying devices when calibrating.

REVISIONS

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4. OVERCURRENT TRIP DEVICES, OD-1 & OD-2 (continued)

4b. OD-1 (Dual)
4c. OD-2 (Selective)

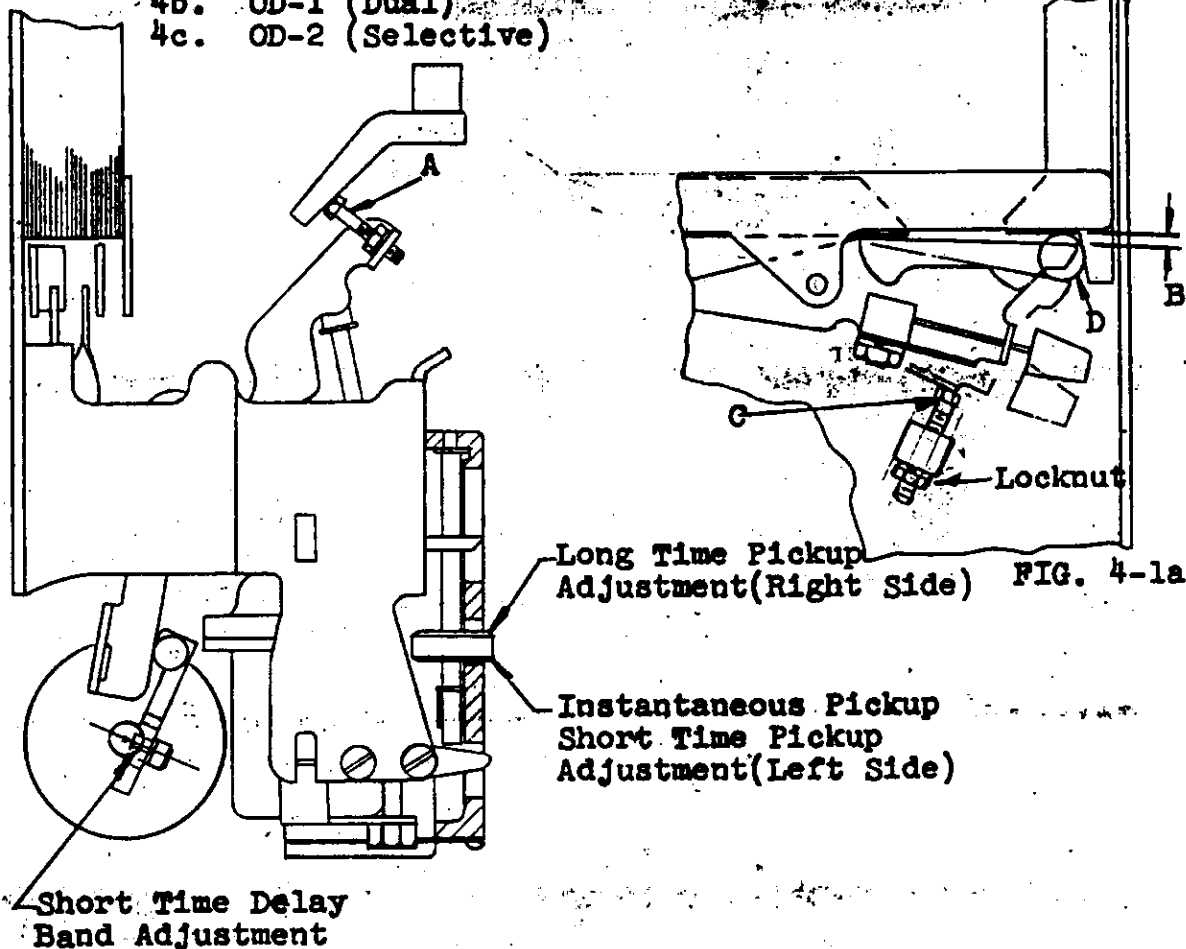


FIG. 4-1

B. Adjustments

(1) Overtravel adjustment (both armatures)
Adjust "A" (Fig. 4-1) so breaker trips with .020" but not with .030" feeler at "B". Tighten set screws and recheck.

(2) Air gap* (Both Armatures)
Adjust "C" so open air gap for long time armature is $\frac{7}{16}'' \pm \frac{1}{64}''$ measured at "D".
Adjust "C" so open air gap for short time armature is $\frac{1}{2}'' \pm \frac{1}{64}''$ measured at "D". Tighten locknuts and recheck. AIR GAP AT HEEL OF ARMATURE .002 TO .015
*Unless otherwise specified on Bill of Material.

(3) Test delay and reset times per TD-3304-T, TD-3305-T, and TD-3306-T (or as specified on Bill of Material) at 600% of device rating with 80% calibration setting. Standard calibration per TD-3036-A.

REVISIONS

*TEST ACTIVITY CODE

E = EACH DEVICE M = MONTHLY

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2W = BIWEEKLY

1 $\frac{7}{16}''$ AG WAS $\frac{1}{2}''$ ON 11-30-55
+HEEL AIR GAP
2 AIR GAP AT HEEL FROM .002 TO .010 TO
.002 TO .015 11-6-57 C. K. K.

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DATE 7-20-55

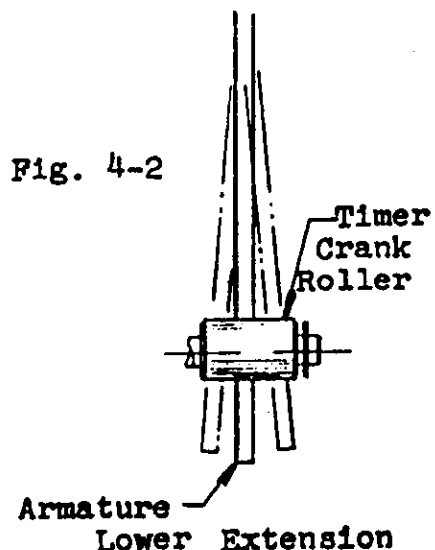
4. OVERCURRENT TRIP DEVICES, OD-1 & OD-2 (continued)

- (4) Test short time reset and delay times per TD-3307, TD-3308, and TD-3309 at 250% of short time pickup. (Selective OD-2)
- (5) Restrained travel (long time armature) no more than 1/2 total armature stroke.
- (6) Resonant silencer to insure silence of long time armature on currents up to pickup value. Vibrator wire to be free of nicks.
- (7) Oil Leakage Inspection
Final assembly and test of oil cylinder assembly per L-6035.
- (8) Time-delay stroke of short-time armature shall not extend beyond a point 3/16" from the final stroke of the armature.
- (9) Short Time Armature Position (Fig. 4-2)
The lower extension of the short time armature shall have full-width bearing engagement with the timer crank roller under all operating conditions. The armature shall not be so assembled as to permit its extension to slide off the side of the roller.

REVISIONS

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Fig. 4-2



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DATE 5-19-55

APPROVED [Signature]
DATE 7-20-55

6. SHUNT TRIP DEVICE

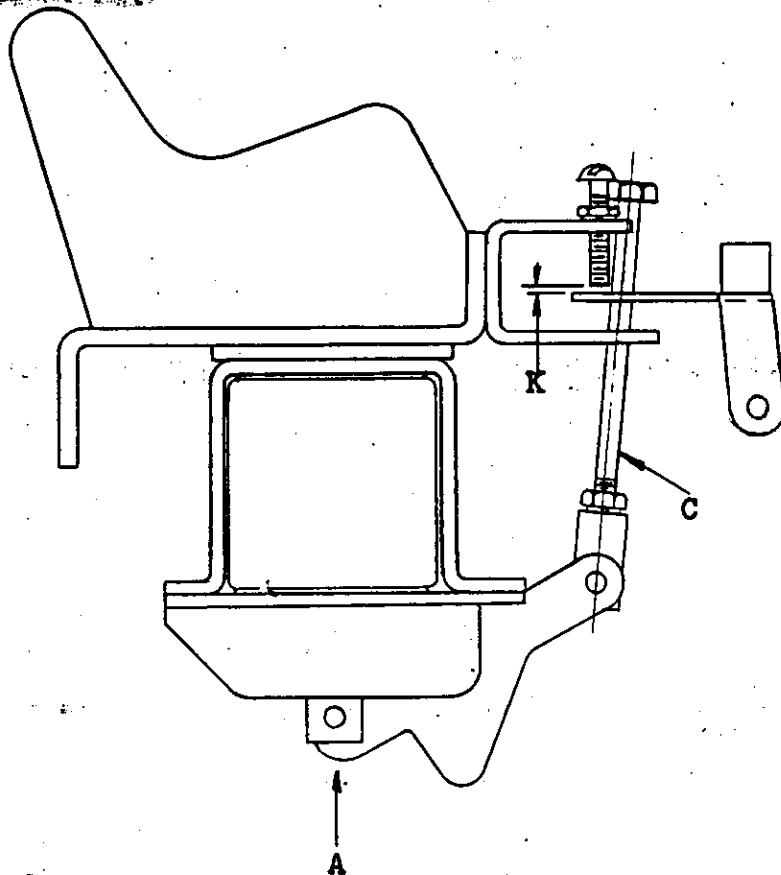


FIG. 6-1

A. Adjustments

(1) Overtravel Adjustment

Adjust "C" (Fig. 6-1) with armature "A" sealed so that excess trip travel measured at "K" Fig. 6-1 is .112 to .132". Tighten locknut and recheck.

(2) Control voltage range per TD-1175-G unless otherwise specified on Bill of Material.

REVISIONS

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COMPILED GEH
DATE 4-1-55

CH'D. _____
DATE _____

APP. Y. Craig
DATE 1-2-58

REV. 2

7. SOLENOID

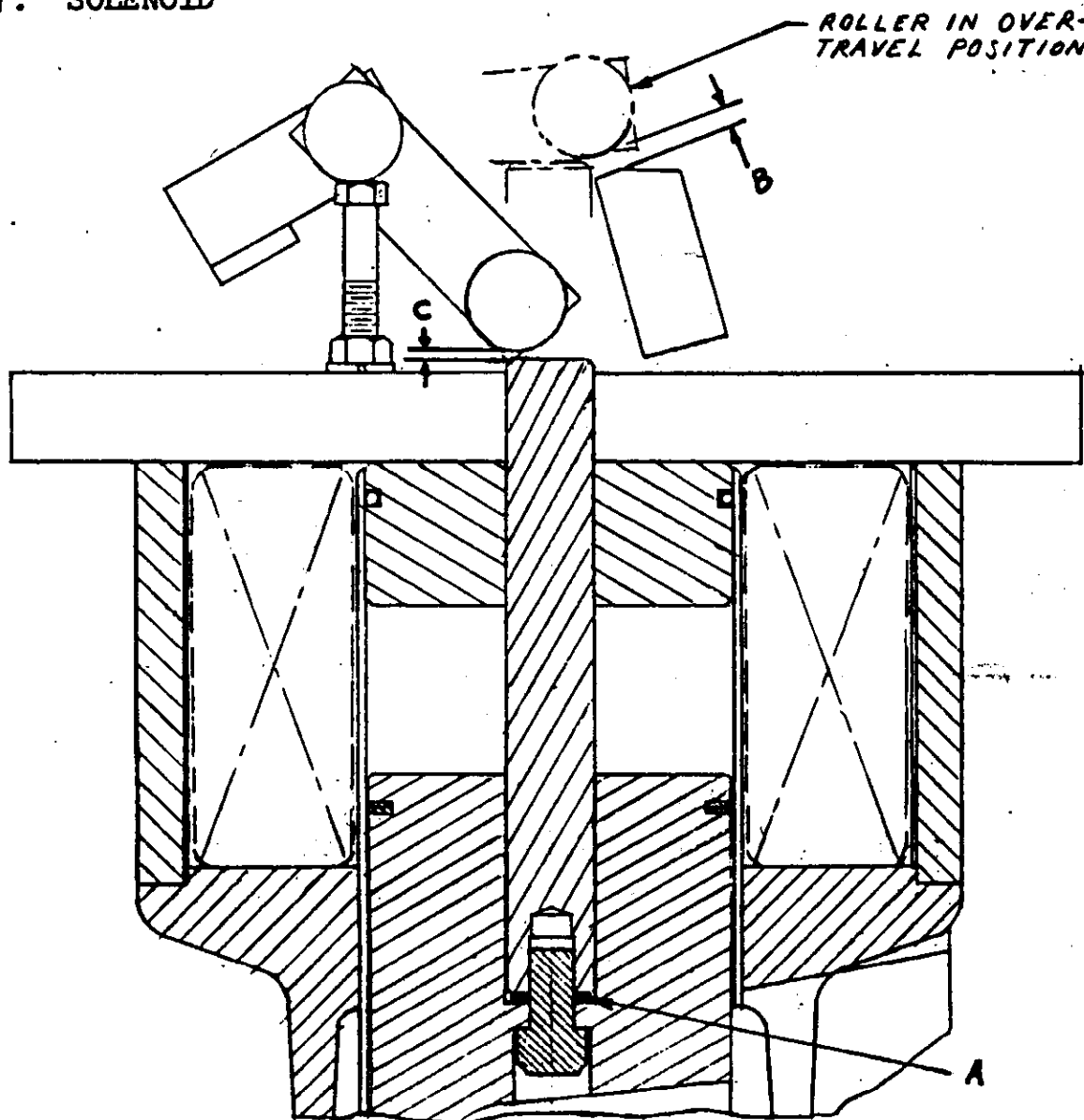


Fig. 7-1

A. Adjustments

- (1) Adjust solenoid by adding or omitting shim washers "A" so that overtravel measured at "B" shall be .050 to .090. Space at "C" shall be .010 minimum with breaker open.
- (2) Control voltage range per TD-117SG unless otherwise specified on Bill of Material.

REVISIONS

2. 7A REVISION 1-2-58 JC

*-TEST ACTIVITY CODE

S-EACH DEVICE M-MONTHLY
W-WEEKLY 3M-QUARTERLY
2W-BIWEEKLY

E

I-T-E CIRCUIT BREAKER COMPANY

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COMPILED GER CHECKED GT APPROVED W
DATE 4-1-55 DATE 5-19-55 DATE 7-22-55

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8. UNDERVOLTAGE TRIP, INSTANT. & TIME DELAY

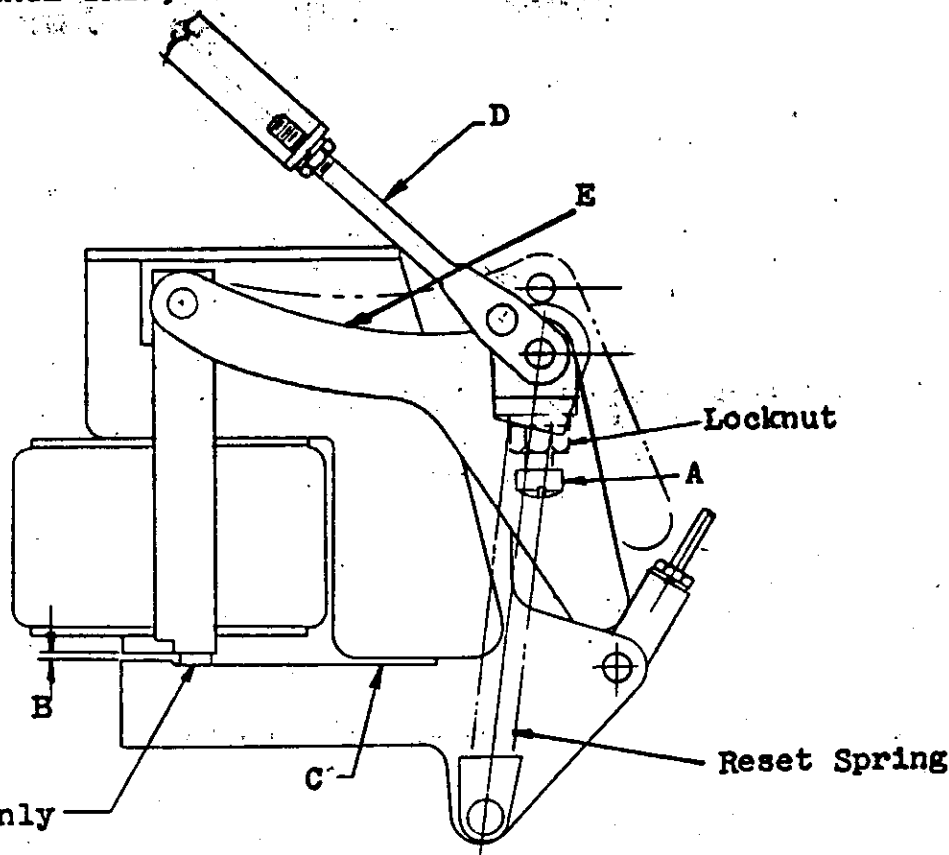


FIG. 8-1

A. Adjustments

(1) Anti-noise adjustments

Breaker open, no voltage on coil. Adjust "A" (Fig. 8-1) so "B" is .020" to .040". Tighten locknut and recheck.

(2) Gap at "C" (armature sealed) .002" to .007".

(3) Operating link "D" to jackshaft should be adjusted so that when the circuit breaker is closed manually the de-energized undervoltage shall trip the breaker before or at the same time that the arcing contacts touch. Care should be taken to see that the spring arm "E" on the undervoltage does not jam against the undervoltage frame when the breaker is closed and over-travel is taken up on the solenoid.

REVISIONS

#3 REVISED METHOD 5-1-56

*-TEST ACTIVITY CODE

E-EACH DEVICE M-MONTHLY

W-WEEKLY 3M-QUARTERLY

2W-BI WEEKLY

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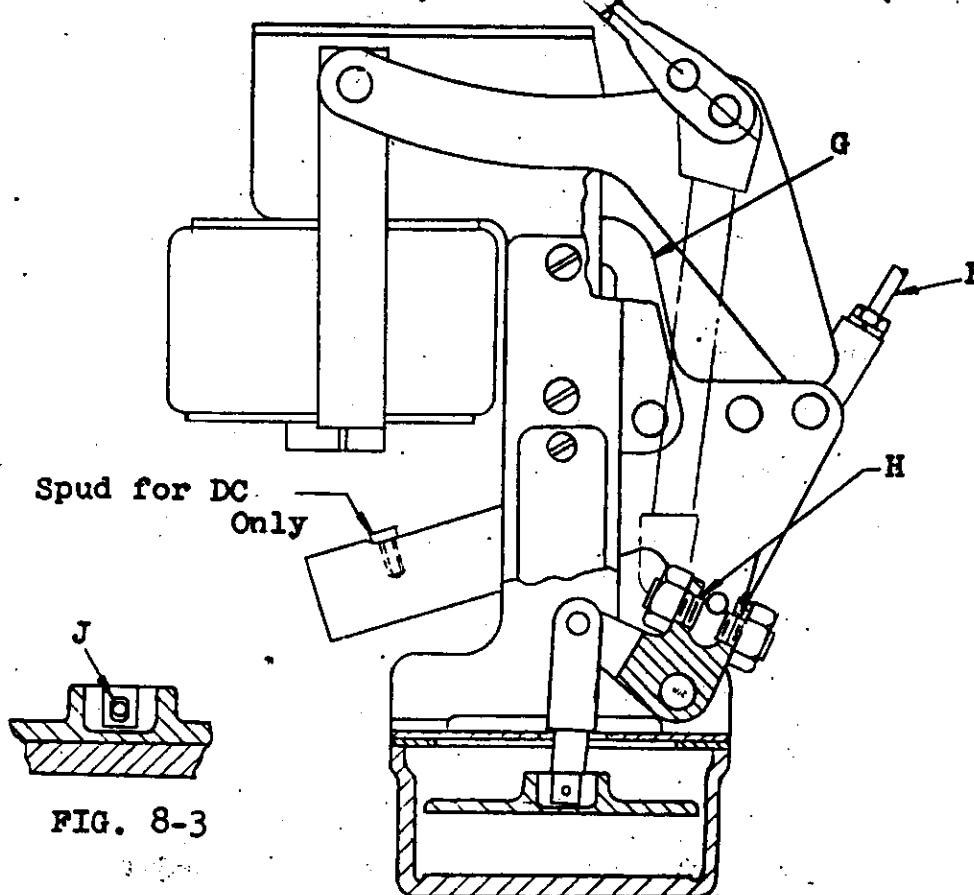
COMPILED **GEH**
DATE **4-1-55**

CHECKED **GT**
DATE **5-19-55**

APPROVED **[Signature]**
DATE **7-22-55**

REV. **0**

8. UNDERVOLTAGE TRIP, INSTANT. & TIME DELAY (continued)



(4) Overtravel

Adjust "F" (Fig. 8-2) with "G" forced against magnet (after latch bite set per par. 3-e) so gap at "K" (Fig. 3-3) is .112 to .132". Tighten locknut and recheck.

(5) Operating springs to insure "dragoff" with breaker closed, handle held up, and dropout voltage impressed.

(6) Pickup voltage no more than 80% rated voltage, bkr. open.

(7) Adjust screws "H" on bell crank of time delay (if used) so pin "J" floats in slot of dashpot link when adhesive discs are together (Fig. 8-3). Tighten locknuts.

(8) Time delay (if used) to meet requirements to TD-1175-C.

(9) Drop out and control voltages per TD-1175-C unless otherwise specified on Bill of Material.

(10) Resistance check on coil to insure furnishing correct coil as per Bill of Material.

REVISIONS

TEST ACTIVITY CODE

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I-T-E CIRCUIT BREAKER COMPANY FACTORY SPECIFICATIONS

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COMPILED GER CHECKED GT APPROVED Handy
DATE 4-1-55 DATE 5-19-55 DATE 7-20-55

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9. CLOSING RELAY

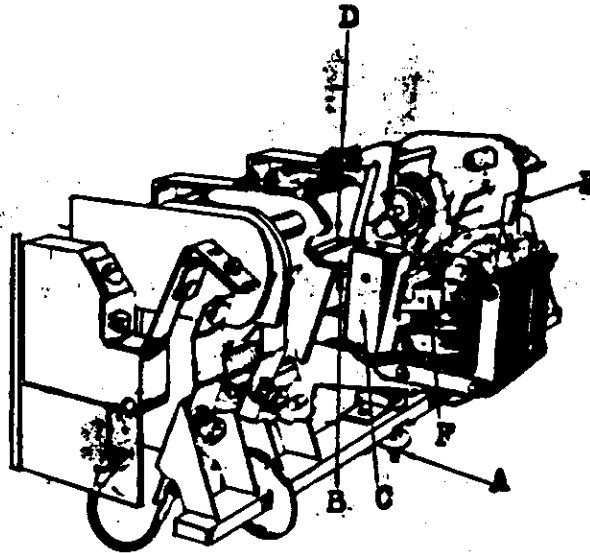


FIG. 9-1

A. Adjustments

(1) Air Gap Adjustment

Set air gap "B", using "A" to meet low voltage minimums of TD-1175-F. Gap "B" 1/4" minimum, "C" always attracted to "D" when voltage initially impressed. Tighten locknuts and recheck.

(2) Contacts

All contacts (except "E") make when air gap "B" is 1/16" to 3/32" and at one time within 1/64". Contact "E" closed in normally de-energized position and when "C" is sealed to "D". Contact "E" open when "C" is sealed to "F".

(3) Control voltage range per TD-1175-F unless otherwise specified on bill of material.

REVISIONS

*-TEST ACTIVITY CODE

E-EACH DEVICE M-MONTHLY
W-WEEKLY 3M-QUARTERLY
2W-BI-WEEKLY

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SECTION 10.

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DATE 3-25-55CHECKED GT
DATE 5-19-55APPROVED [Signature]
DATE 7-20-55REV. 0

10. ELECTRICAL CLEARANCES AND TESTS

- (1) Electrical clearances per TD-1253
- (2) Dielectric test voltages per TD-1175-D

REVISIONS

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*
E
E

I-T-E CIRCUIT BREAKER COMPANY FACTORY SPECIFICATIONS

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SECTION 11

COMPILED GEH CHECKED GT APPROVED Crane
DATE 4-1-55 DATE 5-19-55 DATE 7-28-55

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11. DRAWOUT INTERLOCK

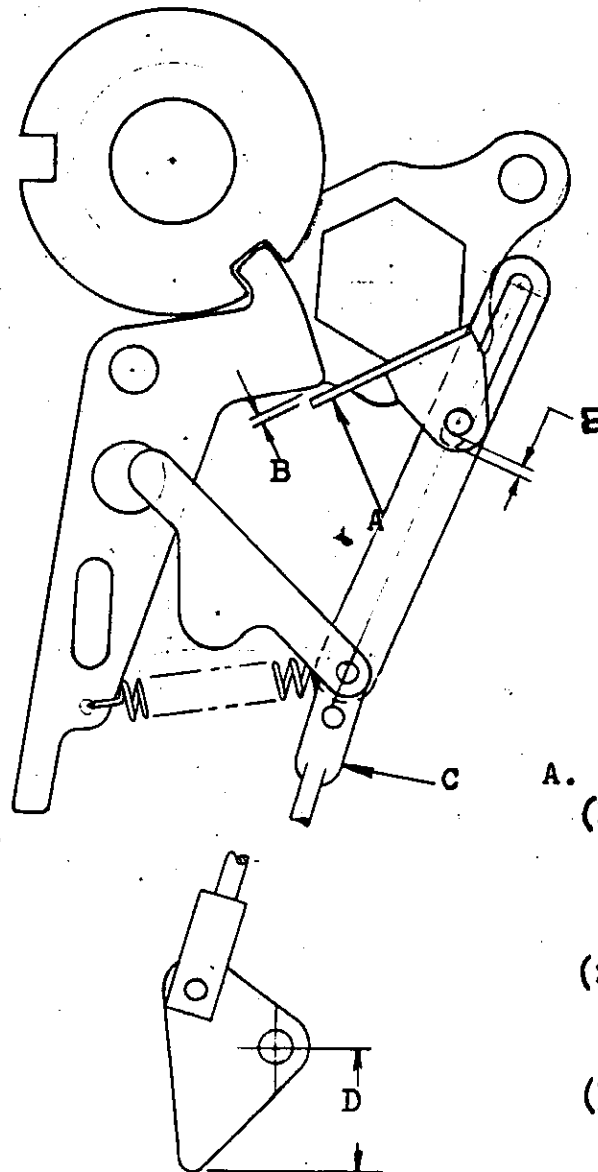


FIG. 11-1

A. Adjustments

- (1) With breaker closed and interlock in test position, bend A (Fig. 11-1) until B is $1/64$ to $1/16$.
- (2) With interlock in test position, adjust C until D is $1 \frac{1}{4} \pm 1/32$.
- (3) When breaker is closed, there should be a min. of $1/32$ and a max. of $1/16$ between pin and blocking link at E.

REVISIONS

1. Note 3 Added - Blocking
Link Added - 11-9-55 C. Crane

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TYPE _____

MODEL _____

COMPILED C.H.
DATE 11-9-55

CH'D. _____
DATE _____

APP. J. P. Smith
DATE 11-28-55

REV. 0

11. DRAWOUT INTERLOCK (continued)

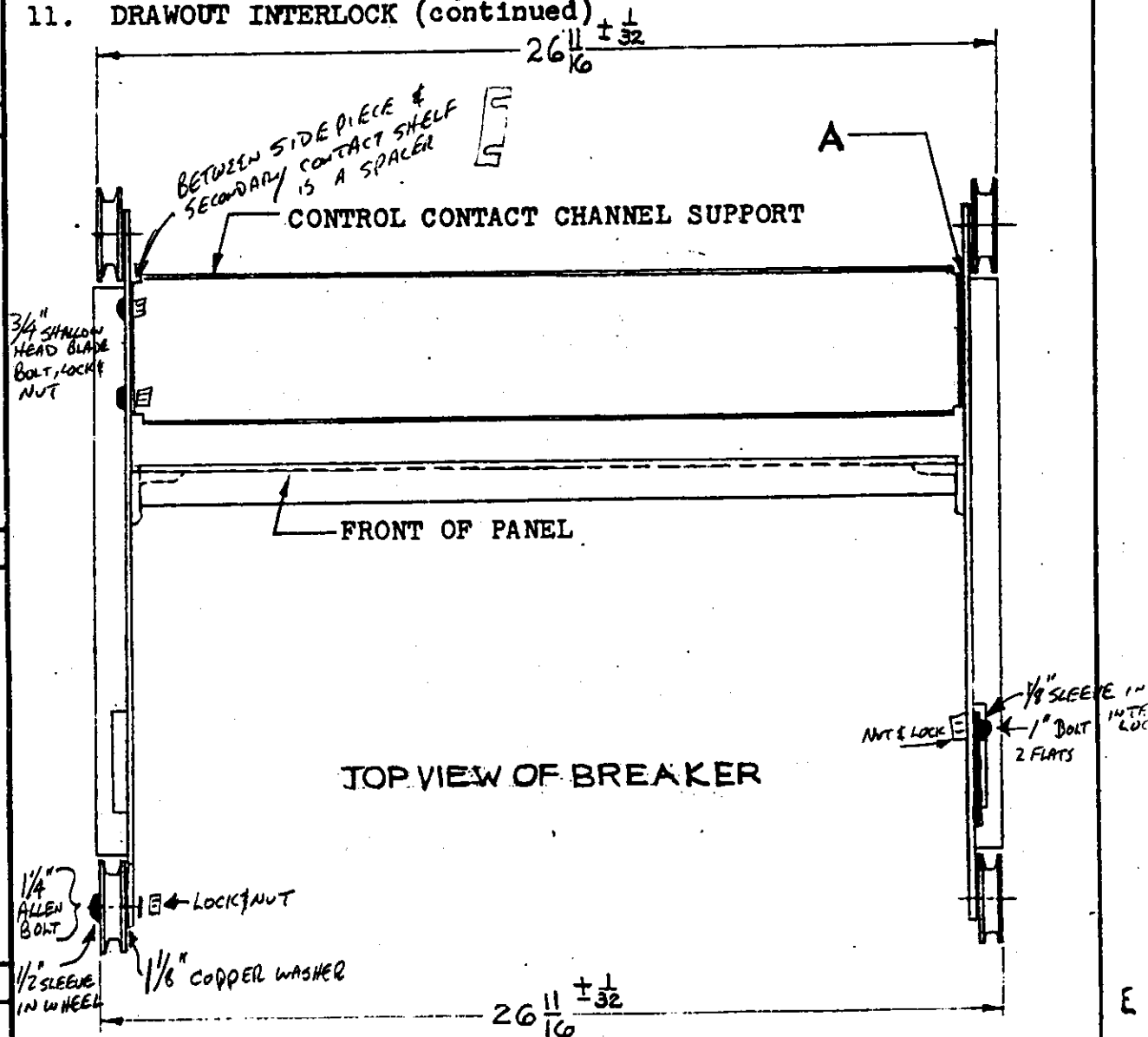


Fig. 11-2

B. Clearance

- (1) Add shims 212547-J at A as required to maintain dimension between wheels. (Measure at both front and rear wheels.)

REVISIONS

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I-T-E CIRCUIT BREAKER COMPANY

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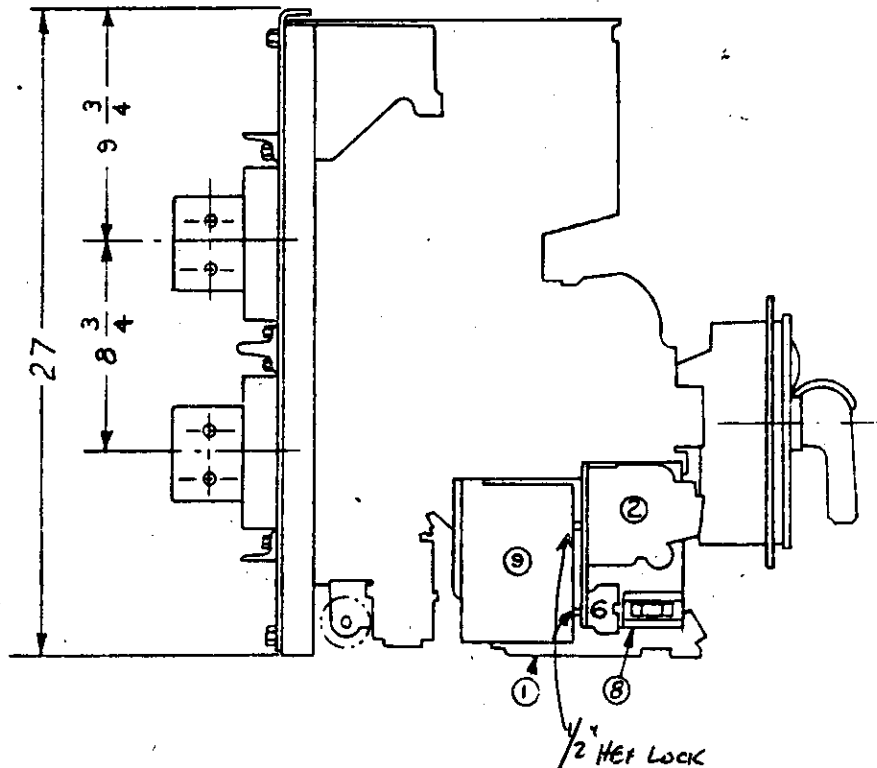
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TYPE KD MODEL A 1955

COMPILED G.T. CH'D. G. TOOTELIAN APP. X. J. J.
DATE 6-14-55 DATE 6-14-55 DATE 2-20-55

REV. 0

12. GENERAL INFORMATION



A. STANDARD PHYSICAL ARRANGEMENT OF EQUIPMENT

- | | |
|----------|---|
| PART NO. | 1. CLOSING SOLENOID |
| | 2. CONTROL RELAY |
| | 3. AUXILIARY SWITCH |
| | 4. SHUNT TRIP |
| | 5. UNDERVOLTAGE TRIP |
| | 6. 6 PT. TERMINAL BLOCK |
| | 7. 2 PT. TERMINAL BLOCK (REQUIRED WITH UNDERVOLTAGE ONLY) |
| | 8. FUSE BLOCK (REQUIRED ON A.C. SOLENOID) |
| | 9. RECTIFIER (REQUIRED ON A.C. SOLENOID) |

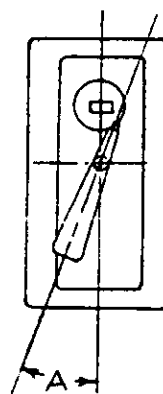
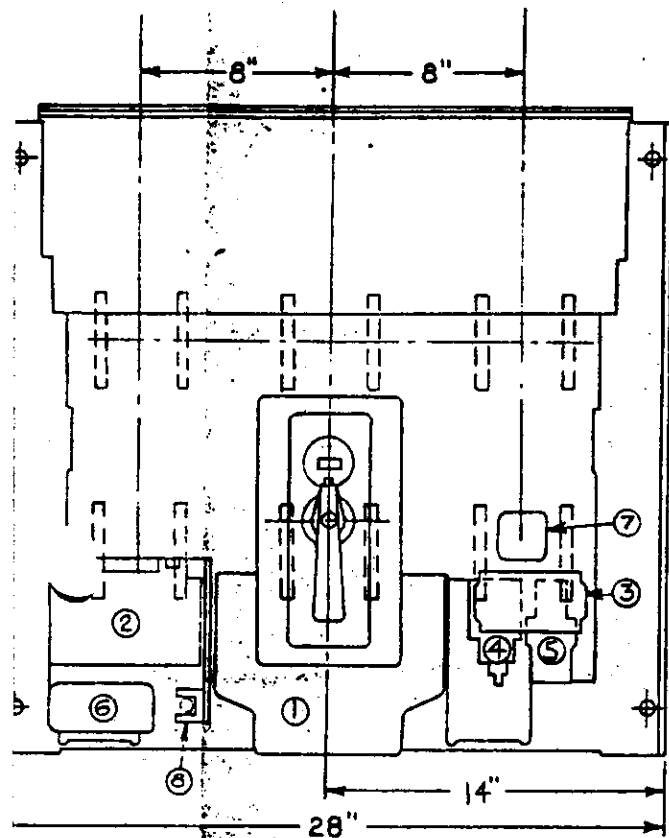
REVISIONS

* = TEST ACTIVITY CODE

E = EACH DEVICE M = MONTHLY
W = WEEKLY 3M = QUARTERLY
2W = BIWEEKLY

D-5048

OF 1



NOTES:

1. TOLERANCES ON DIMENSIONS SHOWN $\pm 1/16"$.
2. ANGLE "A" NOT MORE THAN 2 DEGREES EITHER SIDE OF VERTICAL.
3. EACH BASE-PANEL SHALL BE INSPECTED TO DETECT THE PRESENCE OR ABSENCE OF MAGNETIC MATERIAL IN THE MOUNTING PANEL. THE PANEL FOR THE KD CIRCUIT BREAKER SHALL BE NON-MAGNETIC. VERTICAL END STIFFENERS MAY BE MAGNETIC.

Y)

I-T-E CIRCUIT BREAKER COMPANY

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TYPE KD MODEL A 1955

COMPILED G.P.
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DATE _____

APP. _____
DATE _____

REV. 2

19. LUBRICATION

- (1) Pins, shafts, bearings, etc.
Apply thin coating of Anderol L-798
Synthetic grease.
- (2) Latch surfaces (except tripper bar latch)
exposed roller and cam surfaces:
Apply thin coating of Anderol L-798
- (3) Tripper bar latch.
Apply thin coating of following mixture:
1 part Molykote Type "Z" powder
4 parts Anderol L-798 (by volume)
- (4) Solenoid
Apply thin coat of Molykote Type "Z"
powder to piston rings
- (5) Buffer
Apply thin coating of Molykote Type "Z"
powder to piston rings.
Apply thin coating of Molykote grease
mixture as in Item 3 to buffer plunger.
- (6) Contact joints
Coat with "No-Oxid", "A Special" grease.
Wipe off excess after assembly.
See Fig. 2-1.
- (7) All pins of overcurrent device to be
lubricated with Molykote grease mixture
as in Item 3.

REVISIONS

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2. Case Revised
Anderol L-798 No. 3 Lubr.
CO M-35 Grease G.P. 7-62

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TYPE KD MODEL A 1955

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COMPILED GEH
DATE 3-25-55

CHECKED GT
DATE 5-19-55

APPROVED [Signature]
DATE 7-20-55

REV. 0

20. FINAL INSPECTION

The circuit breaker should be inspected before shipment to insure that:

- (1) The circuit breaker is manufactured according to the Bill of Material with regards to:
 - a. The type and description of the circuit breaker.
 - b. Electrical ratings of circuit breaker.
 - c. Type and number of auxiliary devices.
 - d. Number, type and calibration settings of the overcurrent devices.
 - e. Required nameplate information.
 - f. Control specifications.
- (2) The following items are supplied with the circuit breaker according to the Bill of Material:
 - a. One (1) instruction book.
 - b. One (1) wiring diagram for each type control scheme.
 - c. Photograph (if specified)
- (3) The circuit breaker has been assembled with the following considerations:
 - a. All adjustment locking devices are in place and tightened.
 - b. Pin retainers are used in their proper application with regard to type and size.
 - c. All screws and nuts must be tight.
 - d. All flexible connectors are to be free of sharp bends and distortion.
- (4) The circuit breaker operation is such that:
 - a. Overtravel adjustments are adequate to trip the circuit breaker.
 - b. Circuit breaker trips under conditions of trip free operation.
 - c. Circuit breaker must re-latch under all conditions.

REVISIONS

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SECTION 21

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TYPE KD MODEL A 1955

COMPILED G.P.
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DATE _____

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DATE _____

REV. /

21. MAILING LIST

<u>Department</u>	<u>Location</u>	<u>No. of Copies</u>
Service	A4-8	1
Engineering	M2-8	1
C.B. Quality Control	M5-23	1

REVISIONS

1 CONDENSED MAILING LIST
TO 3 DEPT. AS INDICATED.
G.P. 7-62

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FACTORY SPECIFICATIONS

SECTION 22

TYPE KD MODEL A 1955PAGE 1 OF 1COMPILED GEH
DATE 4-1-55CHECKED GT
DATE 5-19-55APPROVED Clark
DATE 7-20-55REV. 0

22. APPENDIX

1. SCHEDULES
#700844

Basic Breaker Parts

2. Time-Current Characteristic Curves:

TD-3604-A
TD-3604-B
TD-3604-C

Dual Magnetic Ovct. (OD-1)

TD-3603-A
TD-3603-B
TD-3603-C

Dual Magnetic Ovct. (OD-2)

3. Additional Test Data

TD-5050-A

Standard Calibrations for
OD-1 and OD-2

TD-1175-C

Standard Control Voltages

TD-1175-D

Dielectric Test

TD-1175-F

Standard Commercial Control
Voltages

TD-1175-G

Standard Commercial Control
Voltages

TD-1253

Electrical Clearances

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