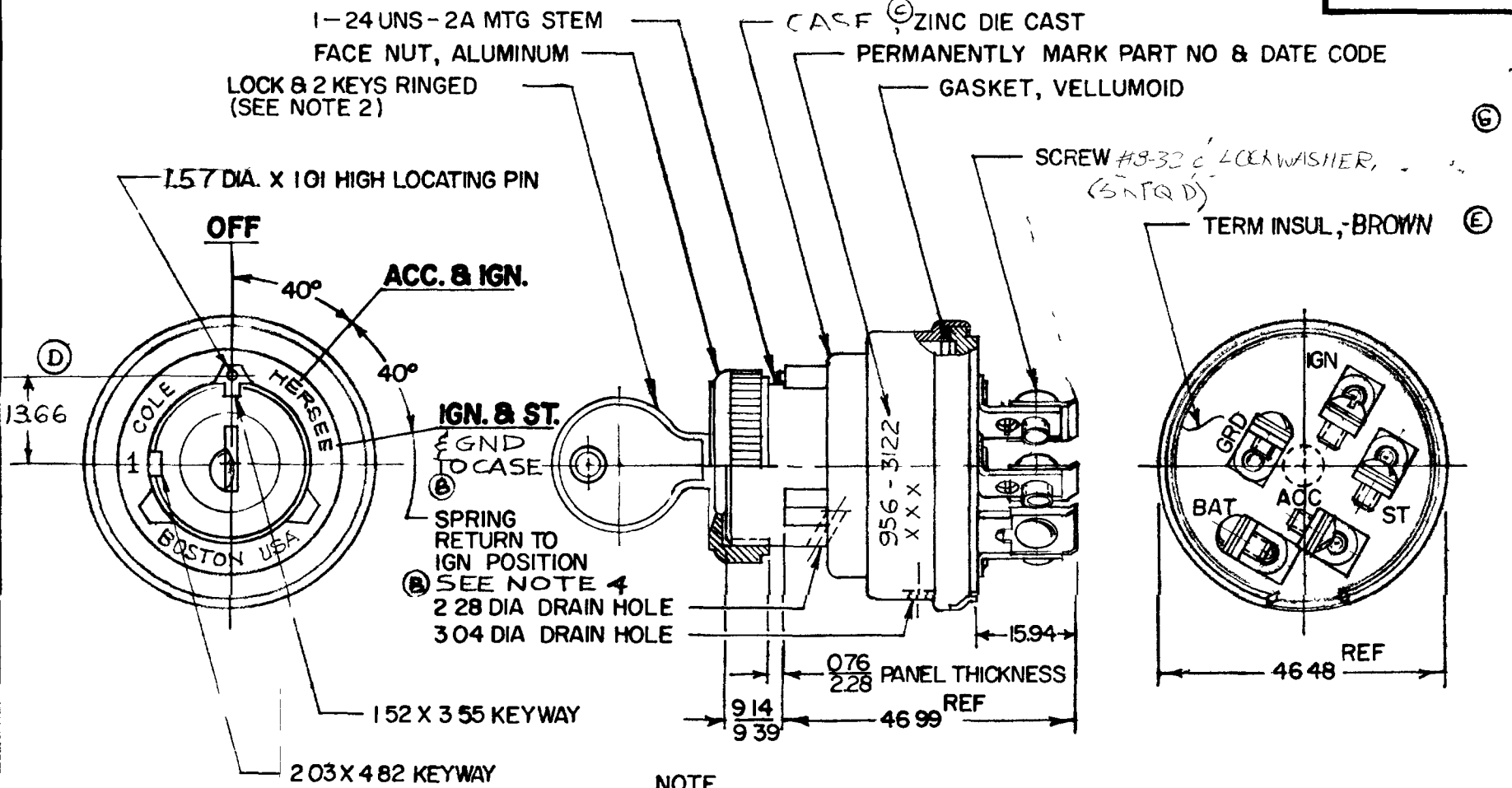


|       |       |
|-------|-------|
| MM    | IN    |
| .25   | .010  |
| .76   | .030  |
| 1.01  | .040  |
| 1.52  | .060  |
| 1.65  | .065  |
| 2.03  | .080  |
| 2.28  | .090  |
| 3.04  | .120  |
| 3.55  | .140  |
| 4.82  | .190  |
| 9.14  | .360  |
| 9.39  | .370  |
| 15.74 | .620  |
| 16.00 | .630  |
| 46.48 | 1.830 |
| 46.99 | 1.850 |
| 1.57  | .062  |
| 13.66 | .538  |

NPM 3-4-76  
EX-16393C

**APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259**

**956-3122**



- NOTE**
- 1. TERM INSUL GASKET SEALED
  - 2. SHUTTER TYPE SEAL ON LOCK FACE
  - 3. O-RING SEAL AT MTG STEM
  - 4. START LOCK-OUT FEATURE, SWITCH MUST GO TO "OFF" POSITION BEFORE START CIRCUIT CAN BE RE-ENERGIZED
  - 5. ALL STEEL PARTS PLATED

**METRIC**

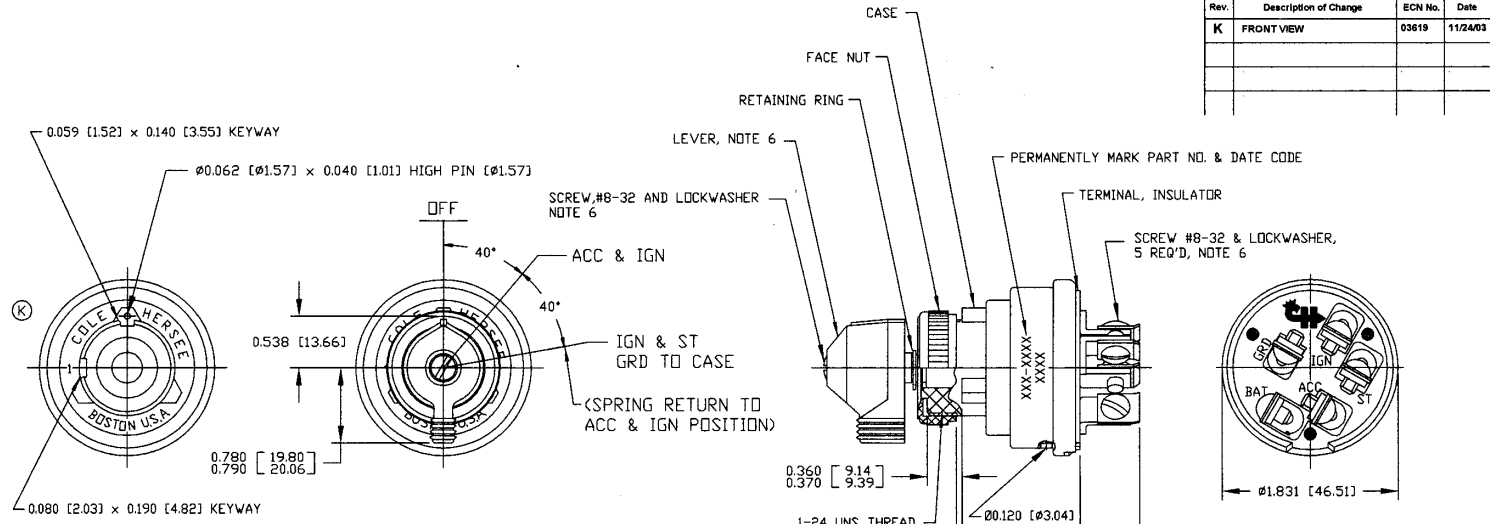
**DO NOT SCALE**

| LET | WAS                 | DATE     | BY | LET | WAS              | DATE     | BY | MATERIAL     | DRAWN  | CHECKED | APPRV D | SCALE  | DATE DRAWN      |
|-----|---------------------|----------|----|-----|------------------|----------|----|--------------|--|---------|---------|--|-----------------|
|     |                     |          |    | E   | ECN 25189        | 8/13/92  | JH | — # —        | EA   | 4-279   |         | 1:1  | 1-6-76          |
|     |                     |          |    | D   | 1574/22457       | 6-5-84   | AK | FINISH       |  |         |         |  | DATE BLUEPRINT  |
|     |                     |          |    | C   | HOUSING          | 2-17-88  | DB | — # —        |  |         |         |  |                 |
| G   | 2 1/2" REGRIND      | 2/11/90  | JA | B   | NOTE ADDED 21267 | 12-22-80 | DB | TOLERANCES   |  |         |         |  |                 |
| F   | CAD ON ZINC / 25239 | 12/22/92 | JA | A   | REDRAWN          | 3-22-79  | FR | DECIMAL ±    |  |         |         |  |                 |
|     |                     |          |    |     |                  |          |    | METRIC ± .25 | <b>CH Cole Hersee Co.</b><br><small>20 OLD COO ONLY A ENUE SOUT BOSTON M US 27</small> |         |         | 3-POSITION<br><b>IGNITION &amp; START SWITCH</b> | <b>956-3122</b> |

CH 188(4 78)

Revision Control Record

| Rev. | Description of Change | ECN No. | Date     |
|------|-----------------------|---------|----------|
| K    | FRONT VIEW            | 03619   | 11/24/03 |
|      |                       |         |          |
|      |                       |         |          |



0.059 [1.52] x 0.140 [3.55] KEYWAY

Ø0.062 [Ø1.57] x 0.040 [1.01] HIGH PIN [Ø1.57]

OFF

SCREW, #8-32 AND LOCKWASHER  
NOTE 6

ACC & IGN

40°

IGN & ST  
GRD TO CASE

(SPRING RETURN TO  
ACC & IGN POSITION)

0.538 [13.66]

0.780 [19.80]  
0.790 [20.06]

0.080 [2.03] x 0.190 [4.82] KEYWAY

FRONT VIEW SHOWN W/D  
LEVER AND FACE NUT

NOTES:

1. ALL DIMENSIONS ARE REFERENCE ONLY
2. ALL STEEL PARTS PLATED
3. SHAFT O-RING SEALED TO CASE
4. TERMINAL INSULATOR GASKET SEALED
5. START LOCK-OUT FEATURE; SWITCH MUST GO TO 'OFF' POSITION BEFORE START CIRCUIT CAN BE RE-ENERGIZED
6. PARTS MAY BE ASSEMBLED OR SUPPLIED IN A PLASTIC BAG
7. APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

**Interchange:** Unless otherwise specifically noted, the following are default dimensions:  
 • Duplex Decimal Dimensions = .001"  
 • Duplex Decimal Dimensions = .010"  
 • Angular Dimensions = ±1.0 Deg.  
 • Metric: Refer to equivalent English Dimension Tables  
 \*\*\* NOTE: All tolerances are Non-Conservative. \*\*\*

**Dimensional Limits:** All dimensions are expressed in inches except those shown in brackets (mm) are expressed in millimeters.

**\*\*\* See also Aesthetic \*\*\* - Non-Toleranced Reference Dimension, shown for identification purposes only.**

Used On: **EX26018** Scale: **1:1**

**PROPRIETARY INFORMATION:** This Engineering Drawing, and the information contained herein, is property of Cole Hersee Company and may not be disclosed, reproduced, or in any other way transmitted or communicated to any other party without the express written consent of an authorized representative of Cole Hersee Company.

**DESIGN CONTROL:** It is the responsibility of the individual using/referencing this drawing to ensure that the noted design revision level agrees with the revision level of the Control Drawing (Master Drawing). This is a NON-CONTROLLED DOCUMENT unless otherwise specifically noted.

**DO NOT SCALE:** Dimensional variation may occur during printing/reproduction.

Drawn By: **KPC** Date: **4/17/06**

**Basic Characteristics:**

⊕ Critical Characteristics: relating to Safety and/or Regulatory Compliance

⊗ Significant Characteristics: relating to Process Control (SPC)

Ⓝ Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer.

Ⓜ Note that the identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.

Responsible Engineer: **Pg. 1 of 1**

**Cole Hersee Co.**  
 30 Old Colony Ave., South Boston, MA, 02127  
 Phone: 617-268-2100 Web: www.colehersee.com

Description: **SW, IGN & START, 3 POS**

Drawing / Part No.: **956-3124**

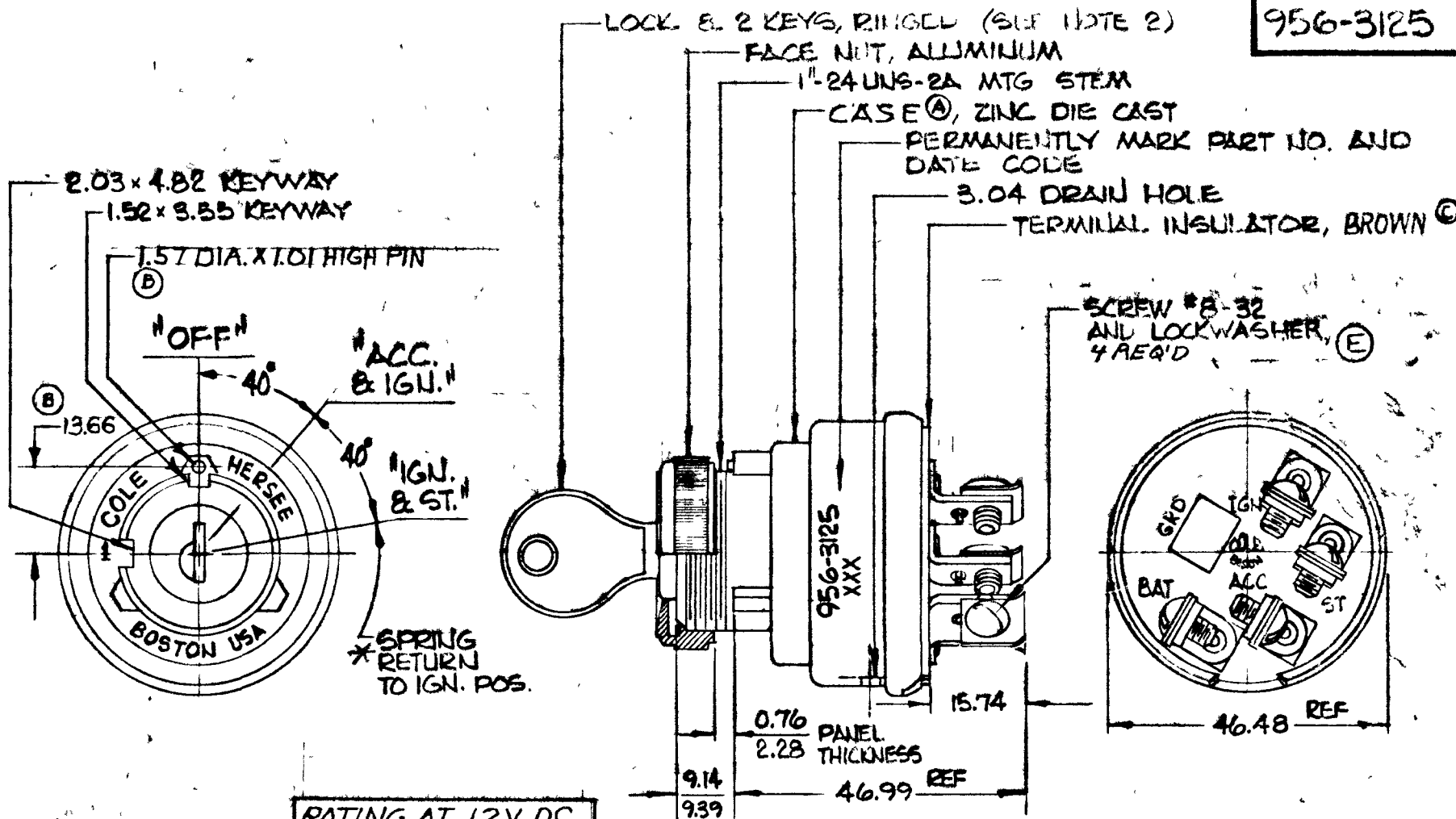
Current Rev.: **K**

|                  |         |
|------------------|---------|
| ST CIRCUIT       | 5 AMPS  |
| IGN CIRCUIT      | 10 AMPS |
| ACC CIRCUIT      | 10 AMPS |
| RATING AT 12 VDC |         |

|       |      |
|-------|------|
| MM    | IN   |
| 0.25  | .010 |
| 0.76  | .030 |
| 1.01  | .040 |
| 1.57  | .062 |
| 1.52  | .059 |
| 2.03  | .080 |
| 2.28  | .090 |
| 3.55  | .140 |
| 4.82  | .190 |
| 9.14  | .360 |
| 9.39  | .370 |
| 15.74 | .620 |

|       |       |
|-------|-------|
| 46.48 | 1.850 |
| 46.99 | 1.850 |
| 3.04  | .120  |
| 13.66 | .538  |

COLE-HERSEE CO.  
NPM



956-3125

| RATING AT 12V DC |         |
|------------------|---------|
| ACC              | 30 AMPS |
| IGN              | 10 AMPS |
| START            | 10 AMPS |

METRIC

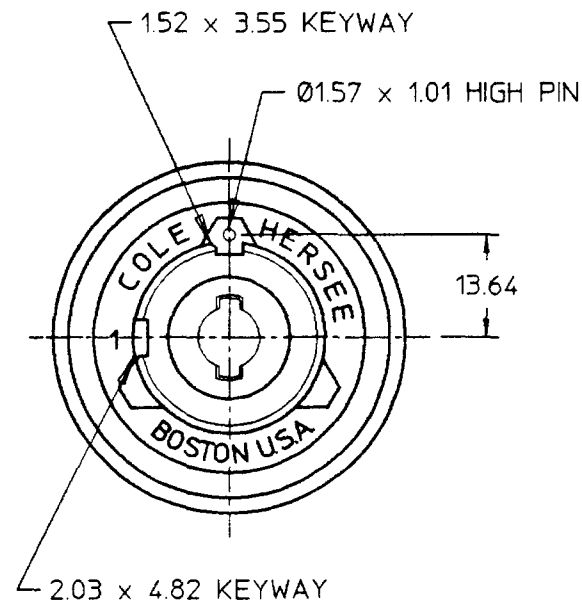
- NOTES:
1. TERMINAL INSULATOR GASKET SEALED.
  2. SHUTTER TYPE SEAL ON LOCK FACE.
  - \*3. START LOCK-OUT FEATURE; SWITCH MUST GO TO "OFF" POSITION BEFORE START CIRCUIT CAN BE RE-ENERGIZED.
  4. APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259.
  - ⑤ ALL STEEL PARTS PLATED

DO NOT SCALE

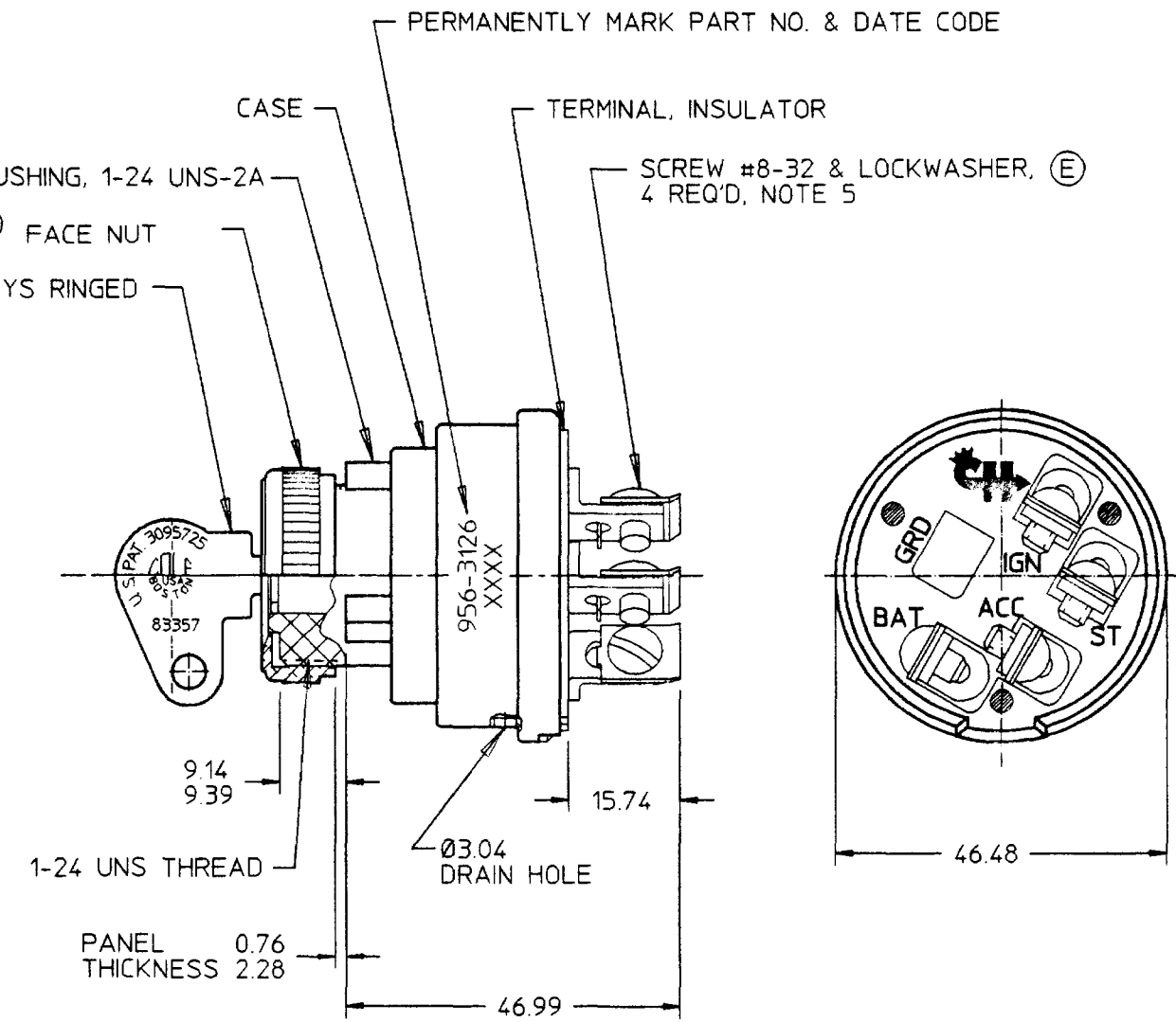
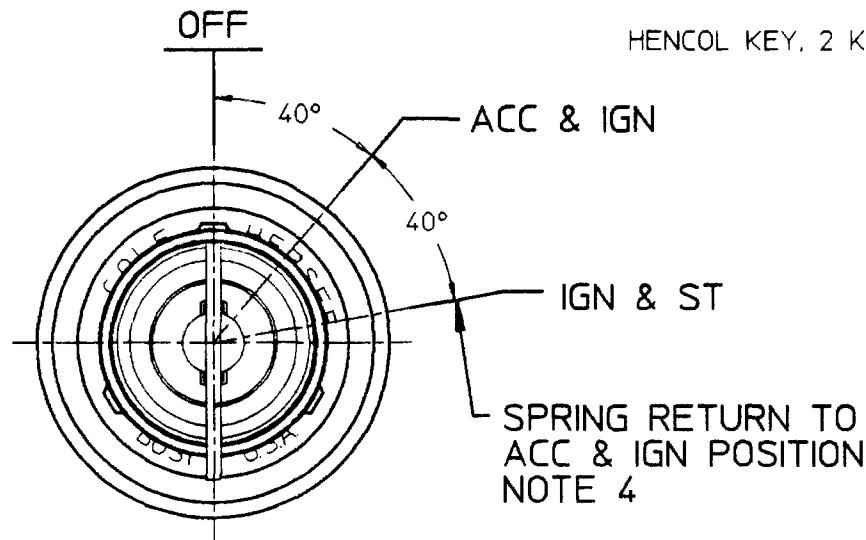
|     |           |        |    |     |             |          |     |              |  |         |         |       |                                     |                |
|-----|-----------|--------|----|-----|-------------|----------|-----|--------------|--|---------|---------|-------|-------------------------------------|----------------|
| LET | WAS       | DATE   | BY | LET | WAS         | DATE     | BY  | MATERIAL     | DRAWN  | CHECKED | APPRV D | SCALE | 956-3122 LESS O-RINGS & GND CIRCUIT | DATE DRAWN     |
|     |           |        |    | D   | NO<br>ADDED | 12/20/90 | LSH | —            | KPC  | RF      |         | 1:1   |                                     | 10-26-76       |
|     |           |        |    | C   | ECN 25189   | 8/13/76  | LSH | FINISH       | COLE-HERSEE COMPANY<br>BOSTON, MASS. 02127, U.S.A. |         |         |       |                                     | DATE BLUEPRINT |
|     |           |        |    | B   | 16.02/22457 | 6-5-84   | LSH | —            |  |         |         |       |                                     |                |
|     |           |        |    | A   | HOUSING     | 813-82   | OK  | TOLERANCES   | 3-POSITION<br>IGN. & START SWITCH                  |         |         |       |                                     | 956-3125       |
| E   | ECN 40137 | 3/1/00 | MA |     | 15 JUL      | 11/2/16  | TY  | FRACTIONAL ± |  |         |         |       |                                     |                |
|     |           |        |    |     |             |          |     | DECIMAL ±.25 |  |         |         |       |                                     |                |

SPaulding CO., INC 21-5353

| MM    | IN    |
|-------|-------|
| 0.76  | 0.030 |
| 1.01  | 0.040 |
| 1.52  | 0.059 |
| 1.57  | 0.061 |
| 2.03  | 0.080 |
| 2.28  | 0.090 |
| 3.04  | 0.120 |
| 3.55  | 0.140 |
| 4.82  | 0.190 |
| 9.14  | 0.360 |
| 9.39  | 0.370 |
| 13.66 | 0.538 |
| 19.81 | 0.780 |
| 20.06 | 0.790 |
| 46.48 | 1.830 |
| 46.99 | 1.850 |



FRONT VIEW SHOWN W/O KEY AND FACE NUT



- NOTES:
1. ALL DIMENSIONS ARE REFERENCE ONLY
  2. ALL STEEL PARTS PLATED
  3. TERMINAL INSULATOR GASKET SEALED
  4. START LOCK-OUT FEATURE, SWITCH MUST GO TO "OFF" POSITION BEFORE START CIRCUIT CAN BE RE-ENERGIZED
  5. PARTS MAY BE ASSEMBLED OR SUPPLIED IN A PLASTIC BAG
  6. APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

DO NOT SCALE

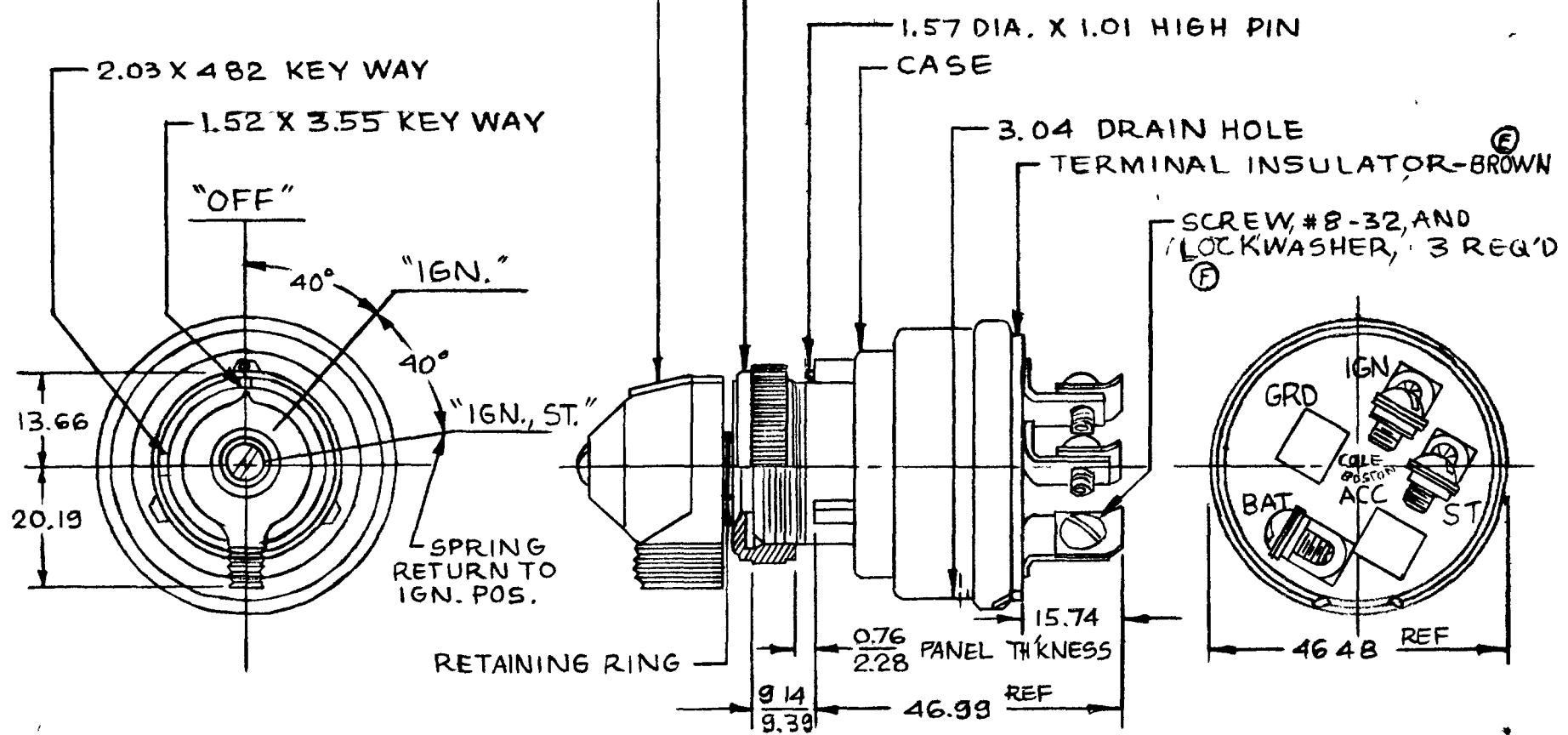
| LET. | WAS | DATE | BY | LET. | WAS                      | DATE     | BY  | MATERIAL             | DRAWN  | CHK | APVD | SCALE | DATE DRAWN       |
|------|-----|------|----|------|--------------------------|----------|-----|----------------------|--|-----|------|-------|------------------|
|      |     |      |    |      |                          |          |     |                      | KG   | Jmp |      | 1:1   | 10/27/97         |
|      |     |      |    |      |                          |          |     | FINISH               | <b>Cole Hersee Co.</b><br>20 OLD COLONY AVENUE, BOSTON, MA., U.S.A., 02127 |     |      |       | DATE BLUEPRINTED |
|      |     |      |    | F    | ECN #98258               | 04/29/98 | COL | TOLERANCES           | SW, IGN & START, 3 POS   |     |      |       | 956-3126         |
|      |     |      |    | E    | PUT ON CAD<br>ECN #26936 | 9/12/97  | AJS | DECIMAL ±<br>ANGLE ± |  |     |      |       |                  |

METRIC

|       |       |
|-------|-------|
| MM    | IN    |
| 0.25  | .010  |
| 0.76  | .030  |
| 1.01  | .040  |
| 1.57  | .060  |
| 2.03  | .080  |
| 2.28  | .090  |
| 2.55  | .100  |
| 4.82  | .190  |
| 9.14  | .360  |
| 9.39  | .370  |
| 15.74 | .620  |
| 20.19 | .795  |
| 46.48 | 1.830 |
| 46.99 | 1.850 |
| 15.74 | .620  |
| 13.66 | .538  |
| 3.04  | .120  |

956-3127

APPLICABLE SAE STANDARD OR  
RECOMMENDED PRACTICE SAE J259



RATING AT 24 VDC  
IGN CIRCUIT 10 AMPS  
ST. CIRCUIT 5 AMPS

NOTES:  
1. SHAFT O RING SEALED TO HOUSING  
2. TERMINAL INSULATOR GASKET SEALED  
3. START LOCK-OUT FEATURE; SWITCH MUST GO TO "OFF" POSITION BEFORE START CIRCUIT CAN BE RE-ENERGIZED.

METRIC

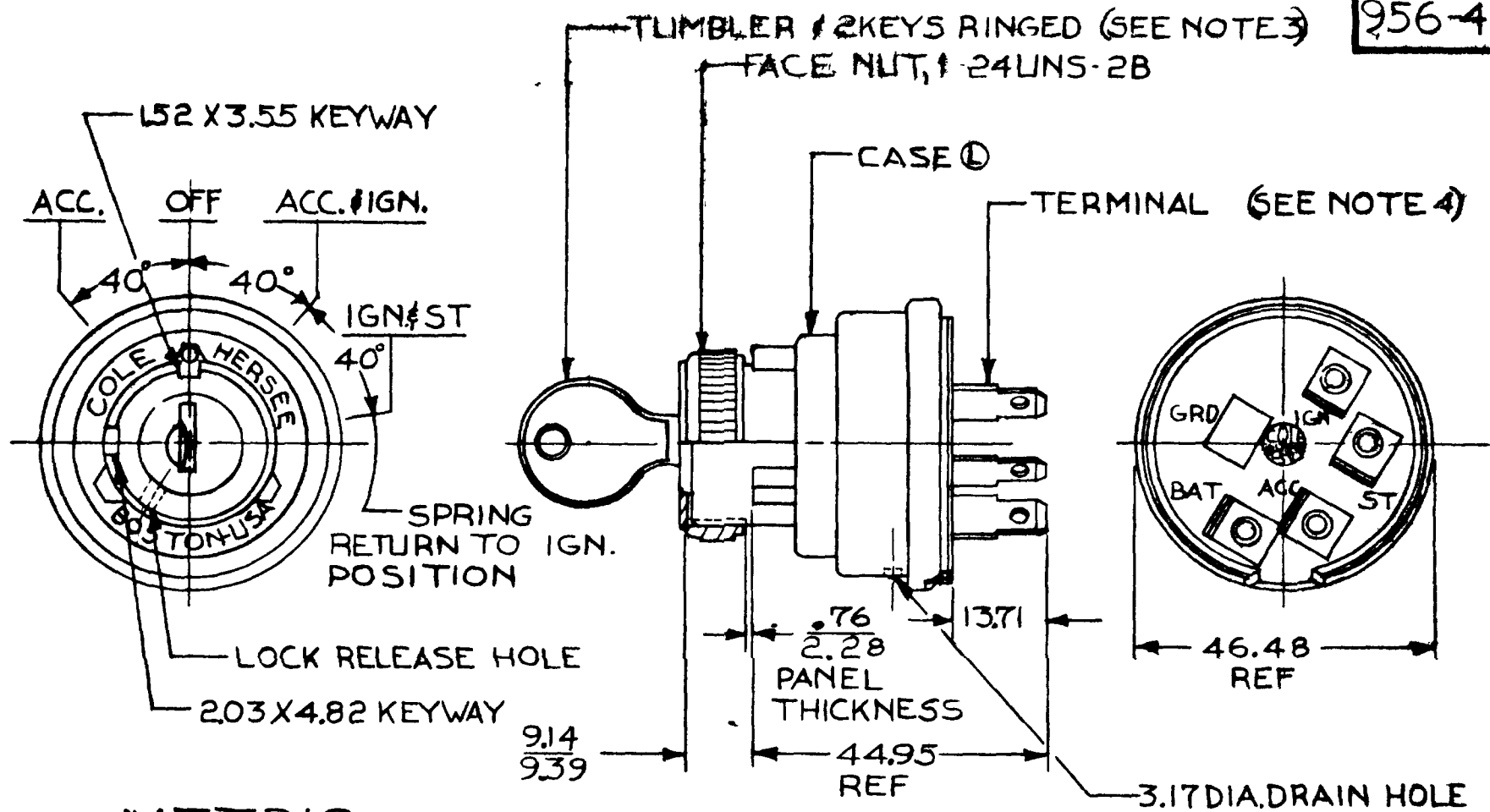
DO NOT SCALE

| LET   | WAS | DATE | BY | LET | WAS       | DATE     | BY  | MATERIAL    | DRAWN | CHECKED | APPRV'D | SCALE | DATE DRAWN     |
|---|-----|------|----|-----|-----------|----------|-----|-------------|-------|---------|---------|-------|----------------|
|   |     |      |    |     |           |          |     | #           | EA    |         |         | 1:1   | 1-10-77        |
|   |     |      |    |     |           |          |     | FINISH      |       |         |         |       | DATE BLUEPRINT |
|   |     |      |    | F   | ECN 00140 | 3/1/00   | MA  |             |       |         |         |       |                |
|   |     |      |    | E   | ECN 25189 | 8/1/92   | TJH | TOLERANCES  |       |         |         |       |                |
|   |     |      |    | D   | REDRAWN   | 10/29/90 | BL  | DECIMAL ±   |       |         |         |       |                |
|   |     |      |    |     |           |          |     | METRIC ±.25 |       |         |         |       |                |
|   |     |      |    |     |           |          |     |             |       |         |         |       |                |
| <b>3 POSITION<br/>IGN. &amp; START SWITCH</b> |     |      |    |     |           |          |     |             |       |         |         |       | 956-3127       |

CH-188(4-78)

MM IN  
 .25 .010  
 .76 .030  
 1.52 .060  
 2.03 .080  
 2.28 .090  
 3.55 .140  
 4.82 .190  
 9.14 .360  
 9.39 .370  
 13.71 .540  
 44.95 1.770  
 46.48 1.830

956-4100



METRIC

| RATINGS AT 12VDC |         |
|------------------|---------|
| ACC. CIRCUIT     | 10 AMPS |
| IGN. "           | 10 "    |
| ST. "            | 5 "     |

- NOTES:
1. APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259
  2. LOCK REMOVABLE IN IGN. POSITION
  3. SHUTTER TYPE SEAL ON LOCK FACE
  4. TERMINALS ARRANGED TO FIT PACKARD CONNECTOR #2962912 OR EQUIV.

DO NOT SCALE

| LET | WAS | DATE | BY | LET | WAS | DATE | BY | MATERIAL     | DRAWN   | CHECKED | APPR'D | SCALE | DATE DRAWN         |
|-----|-----|------|----|-----|-----|------|----|--------------|---|---------|--------|-------|--------------------|
|     |     |      |    |     |     |      |    | #            | M.F.  | 4-28-80 |        | 1:1   | 2-24-66            |
|     |     |      |    |     |     |      |    | FINISH       |   |         |        |       | DATE BLUEPRINT     |
|     |     |      |    |     |     |      |    | TOLERANCES   | <br>30 OLD BOSTON AVENUE SOUTH BOSTON MA U.S.A. 02127 |         |        |       |                    |
|     |     |      |    |     |     |      |    | DECIMAL ±    |   |         |        |       | IGN & START SWITCH |
|     |     |      |    |     |     |      |    | METRIC ± .05 | (4 POSITION)  |         |        |       |                    |

956-4100

CH-1894-78

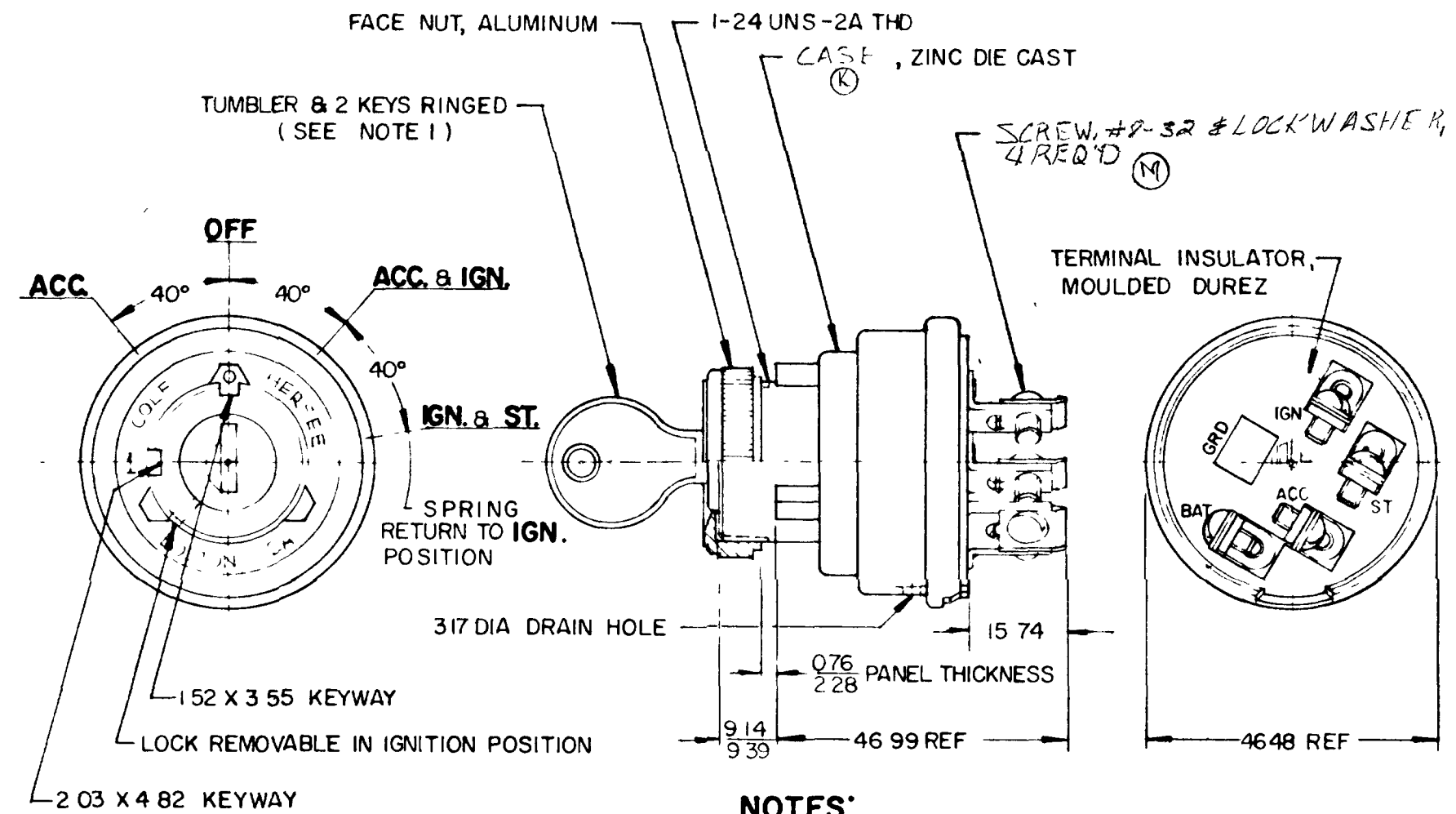
MM IN

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

956-4104

10  
1.27  
1.52  
2.23  
2.28  
3.17  
3.55  
4.82  
9.14  
9.39  
15.74  
46.48  
46.99

EX-14258



NOTES:

- 1 SHUTTER TYPE SEAL ON LOCK FACE
- 2 ALL STEEL PARTS PLATED

**METRIC**

| RATINGS AT 12 VDC |         |
|-------------------|---------|
| ACC CIRCUIT       | 10 AMPS |
| IGN CIRCUIT       | 10 AMPS |
| ST CIRCUIT        | 5 AMPS  |

DO NOT SCALE

| LET | WAS | DATE | BY | LET             | WAS | DATE     | BY | ATERIAL      | DRAWN   | HEIGHTER | SCALE           | DATE DRAWN     |
|-----|-----|------|----|-----------------|-----|----------|----|--------------|---|----------|-----------------|----------------|
|     |     |      |    |                 |     |          |    | #            | MF  | 1-26-79  | 1:1             | 3-15-66        |
|     |     |      | M  | ECN 00137       |     | 3/1/00   | MA | FIP CH       |   |          |                 | DATE BLUEPRINT |
|     |     |      | L  | CAD DOC 2102254 |     | 12/22/02 | JH |              |   |          |                 |                |
|     |     |      | K  | HOUSING         |     | 8/15/87  | PS | TOLERANCES   | <b>4 - POSITION<br/>IGNITION &amp; START SWITCH</b> |          |                 |                |
|     |     |      | J  | REDRAWN         |     | 1/18/79  | J  | FRACTIONAL ± |   |          | <b>956-4104</b> |                |
|     |     |      |    |                 |     |          |    | DECIMAL ± 25 |   |          |                 |                |

**CH** Cole Hersee Co.  
SO. DEPT. 1100 S. 11th St. W. Waukegan, IL 60087

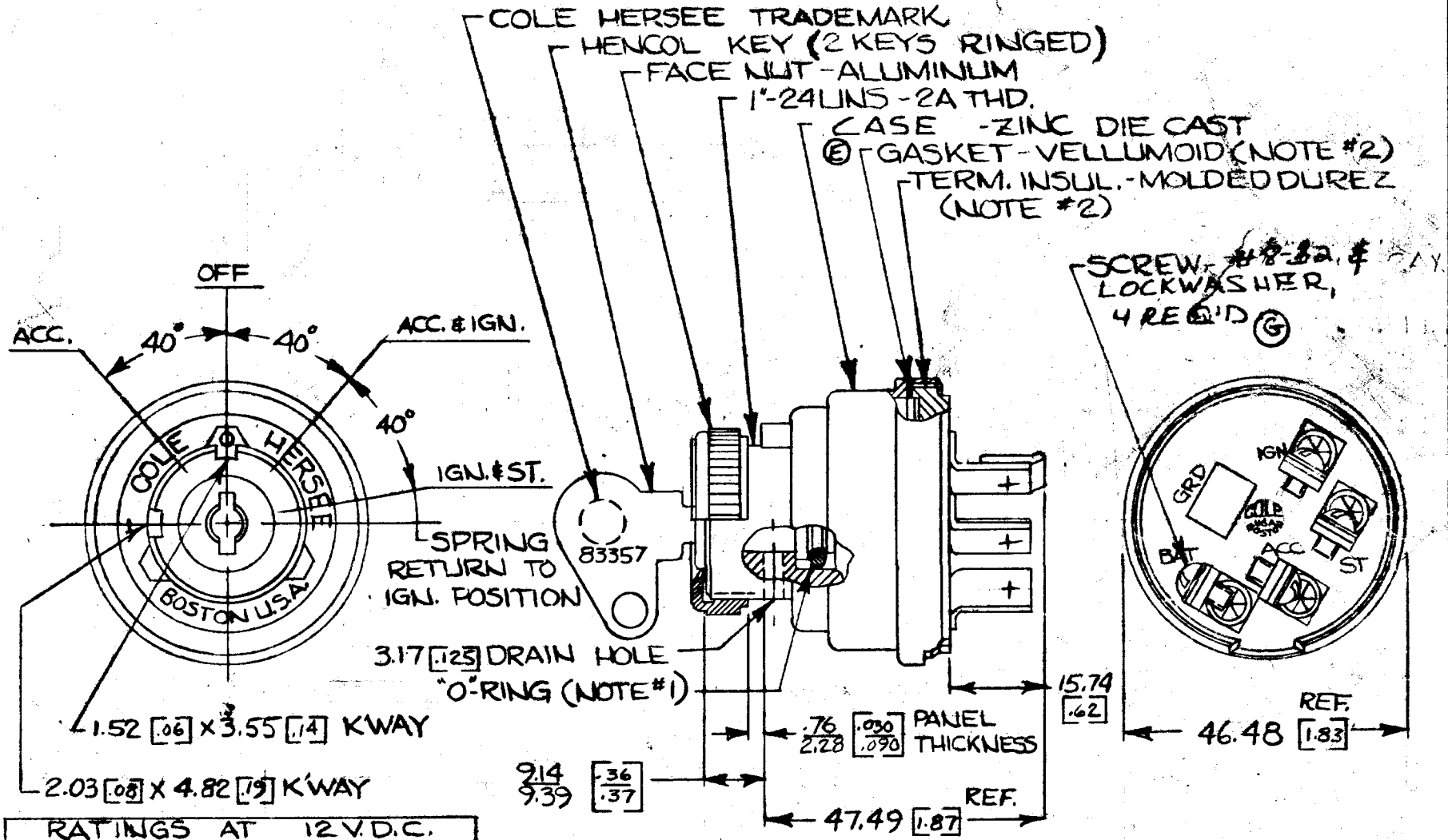
CH 188 (4 78)

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

956-4107

EX-14258

COLE-HERSEE CO.



| RATINGS AT 12 V.D.C. |         |
|----------------------|---------|
| ACC. CIRCUIT         | 10 AMPS |
| IGN.                 | 10      |
| ST.                  | 5       |

DIMENSIONS: MILLIMETERS [INCHES]

NOTE:  
 1) SHAFT O-RING SEALED TO HOUSING  
 2) TERMINAL INSULATOR (GASKET SEALED)  
 3) ALL STEEL PARTS PLATED DO NOT SCALE

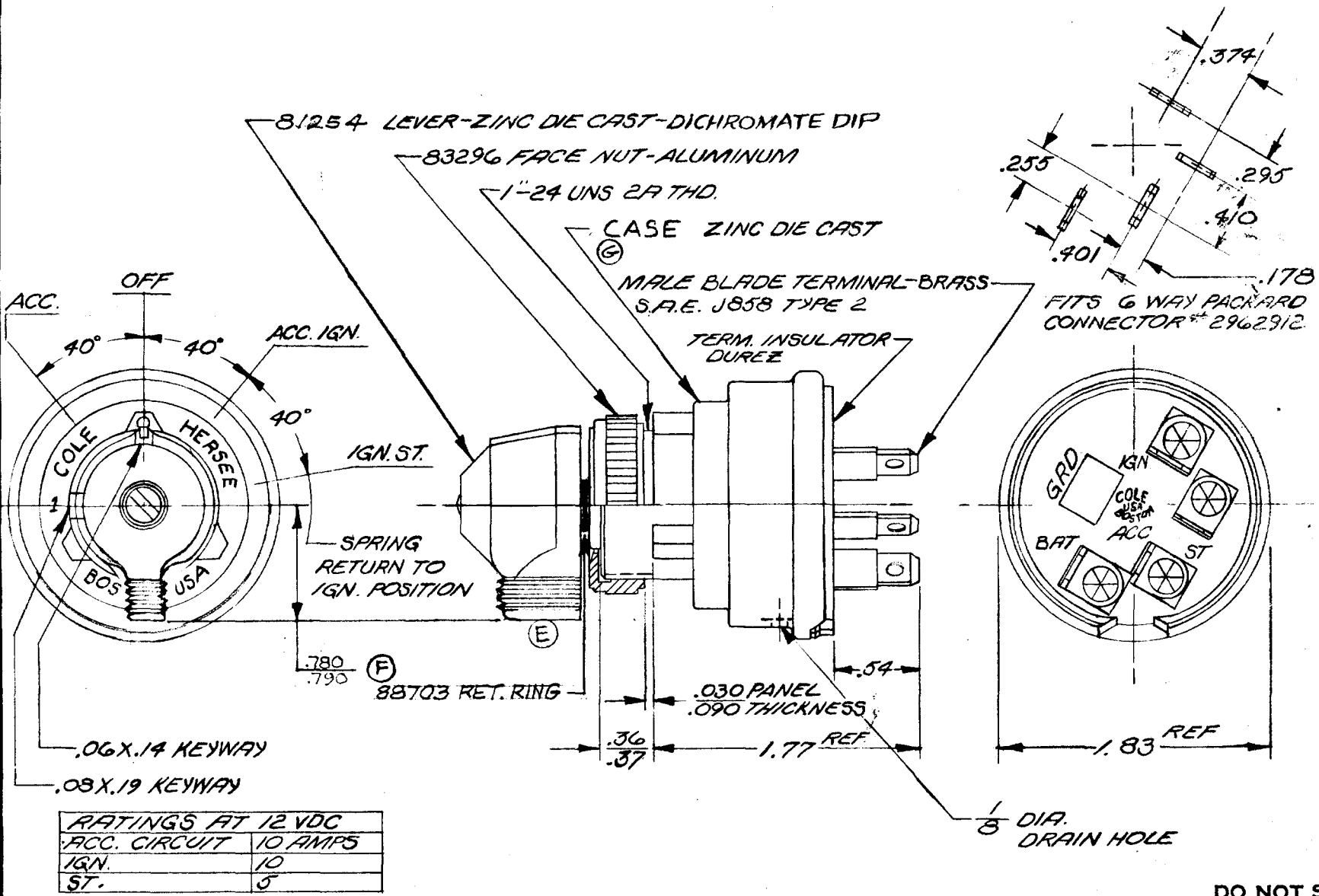
| LET | WAS | DATE | BY | LET | WAS        | DATE     | BY | MATERIAL      | DRAWN  | CHECKED | APPR'D. | SCALE | DATE DRAWN     |  |  |  |  |
|-----|-----|------|----|-----|------------|----------|----|---------------|--|---------|---------|-------|----------------|--|--|--|--|
|     |     |      |    |     |            |          |    | — #           | CF   | UM      |         | 1:1   | 9-20-66        |  |  |  |  |
|     |     |      |    | G   | ECN 0137   | 3/1/60   | AM | FINISH        | <b>COLE-HERSEE COMPANY</b><br>BOSTON, MASS. 02127, U.S.A.<br>4 POSITION<br>IGN. & START SWITCH |         |         |       | DATE BLUEPRINT |  |  |  |  |
|     |     |      |    | F   | ADD 125234 | 12/18/92 | JH | — #           |  |         |         |       |                |  |  |  |  |
|     |     |      |    | E   | HOUSING    | 8-13-82  | PH | TOLERANCES    |  |         |         |       |                |  |  |  |  |
|     |     |      |    | D   | REDRAWN    | 2-11-76  | WJ | FRACTIONAL ±  |  |         |         |       | 956-4107       |  |  |  |  |
|     |     |      |    |     |            |          |    | DECIMAL ±.010 |  |         |         |       |                |  |  |  |  |



COLE-HERSEE CO. TSE-#1034

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

956-4111



| RATINGS AT 12 VDC |         |
|-------------------|---------|
| ACC. CIRCUIT      | 10 AMPS |
| IGN.              | 10      |
| ST.               | 5       |

DO NOT SCALE

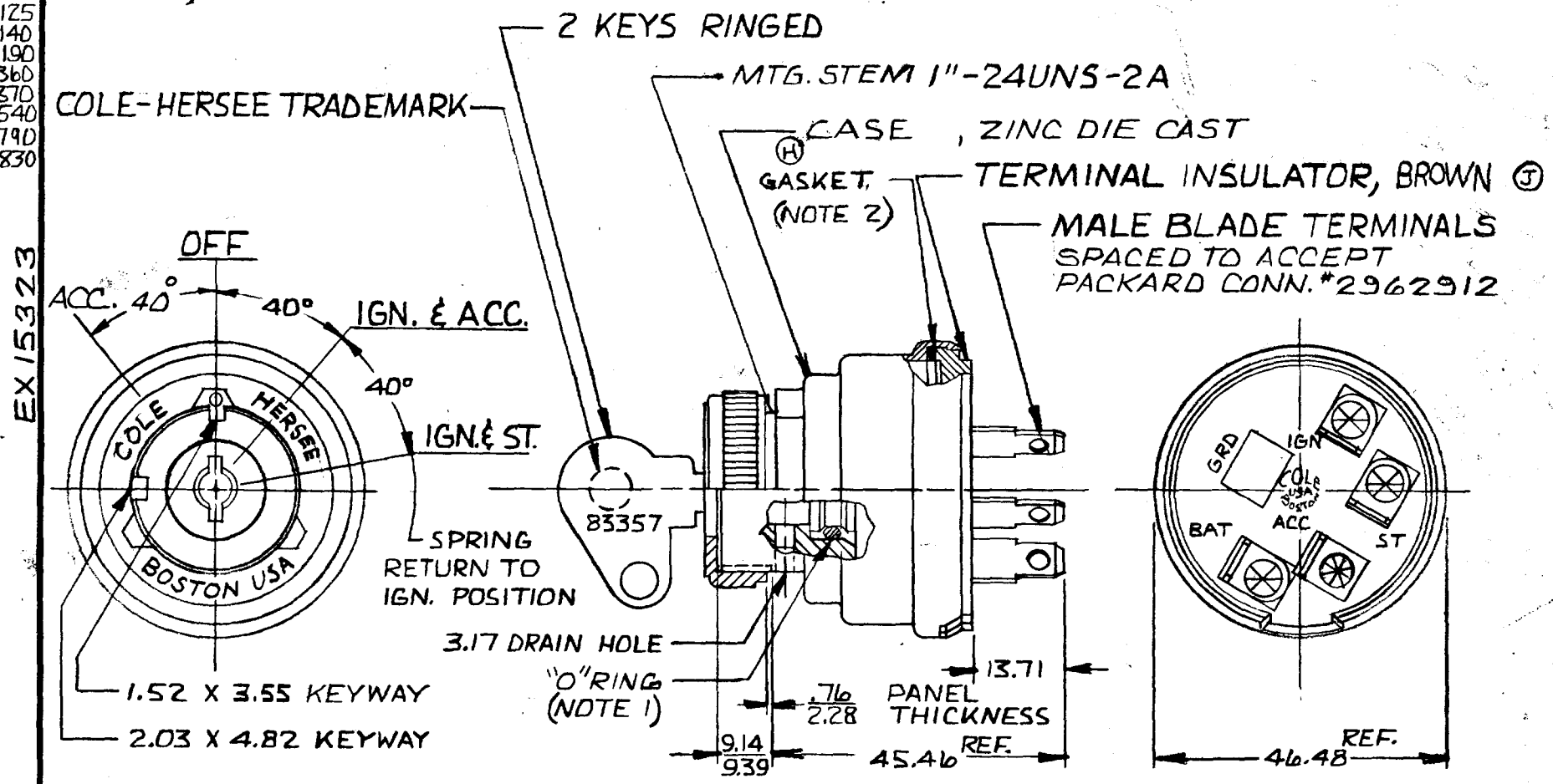
| LET | WAS | DATE | BY | LET | WAS              | DATE     | BY  | MATERIAL   | DRAWN   | CHECKED            | APPRV'D. | SCALE | DATE DRAWN                        |
|-----|-----|------|----|-----|------------------|----------|-----|------------|---|--------------------|----------|-------|-----------------------------------|
|     |     |      |    | G   | HOUSING          | 8-13-66  | CR  | ///        | N.B   | UNV<br>2 MAR<br>73 |          | FULL  | 1-18-68                           |
|     |     |      |    | F   | ADDED RING/20329 | 10-13-78 | RR  | FINISH     | <b>COLE-HERSEE COMPANY</b><br>BOSTON, MASS. 02127, U.S.A. |                    |          |       | DATE BLUEPRINT                    |
|     |     |      |    | E   | LEVER/10343      | 4-8-77   | REI | ///        |   |                    |          |       | 4 POSITION<br>IGN. & START SWITCH |
|     |     |      |    | D   | SAE SPEC ADDED   | 3-5-74   | W   | TOLERANCES | FRACTIONAL ±<br>DECIMAL ±.010                             |                    |          |       | 956-4111                          |
|     |     |      |    | C   | NO CHANGE        | 3-21-75  | JB  |            |   |                    |          |       |                                   |

SPAULDING CO., INC. 47570

| MM.   | IN.   |
|-------|-------|
| .25   | .010  |
| .76   | .030  |
| 1.52  | .060  |
| 2.03  | .080  |
| 2.28  | .090  |
| 3.17  | .125  |
| 3.55  | .140  |
| 4.82  | .190  |
| 9.14  | .360  |
| 9.39  | .370  |
| 13.71 | .540  |
| 45.46 | 1.790 |
| 46.48 | 1.830 |

956-4113

APPLICABLE SAE STANDARD OR  
RECOMMENDED PRACTICE SAE J 259



| RATING AT 12 VDC |         |
|------------------|---------|
| IGN              | 10 AMPS |
| START            | 5 AMPS  |
| ACC              | 30 AMPS |

METRIC

- NOTE:
1. SHAFT "O" RING SEALED TO HOUSING
  2. TERMINAL INSULATOR GASKET SEALED

DO NOT SCALE

| LET. | WAS | DATE | BY | LET. | WAS                  | DATE    | BY | MATERIAL                 | DRAWN | CHECKED | APPR'VD. | SCALE                            | DATE DRAWN     |
|------|-----|------|----|------|----------------------|---------|----|--------------------------|-------|---------|----------|----------------------------------|----------------|
|      |     |      |    |      |                      |         |    | H                        | CF    | LP6     |          | 1:1                              | 3-6-69         |
|      |     |      |    |      |                      |         |    | FINISH                   |       |         |          |                                  | DATE BLUEPRINT |
|      |     |      |    | J    | ECN 25189            | 8-13-92 | JH |                          |       |         |          |                                  |                |
|      |     |      |    | H    | HOLISING             | 8-13-88 | PS | TOLERANCES               |       |         |          |                                  |                |
|      |     |      |    | G    | REDRAWN<br>NO CHANGE | 2-26-81 | EA | DECIMAL ±<br>METRIC ±.25 |       |         |          |                                  |                |
|      |     |      |    |      |                      |         |    |                          |       |         |          | 4 POSITION<br>IGN & START SWITCH | 956-4113       |

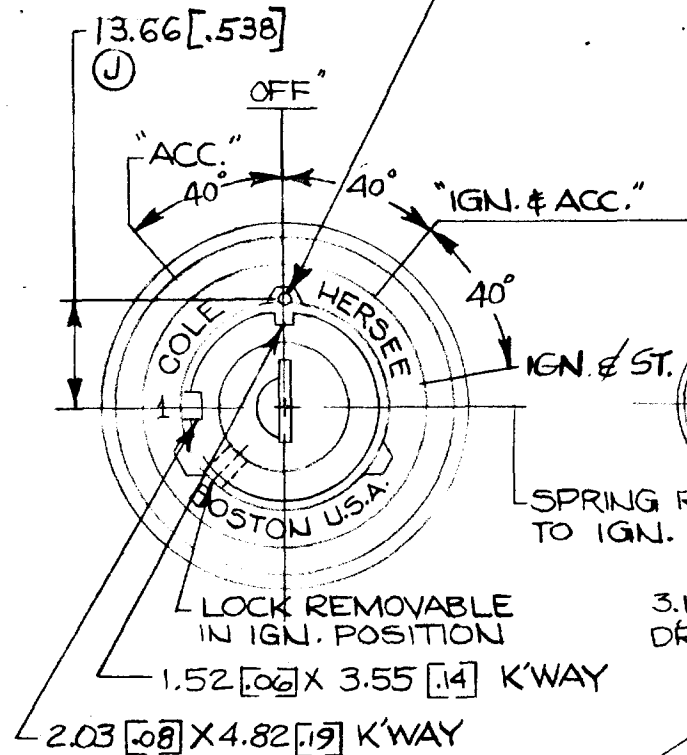
CH-188(4-78)

COLE-HERSEE CO. NPM 9-27-71  
EX 16009 E

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

956-4116

1.57 [.062] DIA. x 1.01 [.040] HIGH PIN.  
①



LOCK REMOVABLE IN IGN. POSITION  
PERMANENTLY MARK SWITCH NO. & DATE CODE ON SIDE OF CASE

TUMBLER #2 KEYS-RINGED

FACE NUT-ALUMINUM

1-24 UNF-2A THD.

CASE - ZINC DIE CAST

TERM. INSULATOR - BROWN ②

MALE BLADE TERMS-BRS. SAE J858 TYPE 2 SPACED TO ACCEPT PACKARD ELEC. CONN. NO. 962912

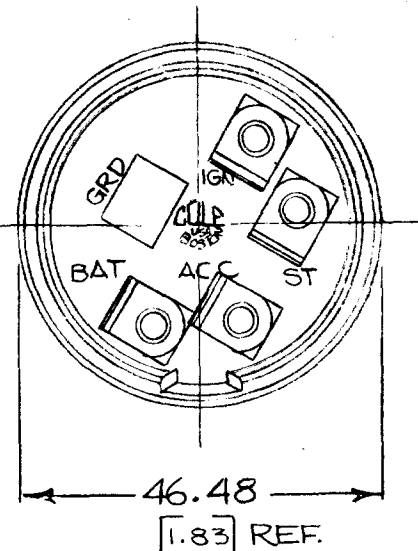
3.17 [.125] DR. HOLE

9.14 [.36] / 9.39 [.37]

13.71 [.54] PANEL THICK.

.76 [.030] / 2.28 [.090]

44.95 [1.77] REF.



- 1) DIMENSIONS : MILLIMETERS [INCHES]
- 2) SILVER LAMINATED CONTACT SURFACES
- 3) SHUTTER TYPE SEAL ON LOCK FACE
- 4) SHOULDER TYPE RIVET CONSTRUCTION
- 5) TERM. INSUL. GASKET SEALED

DO NOT SCALE

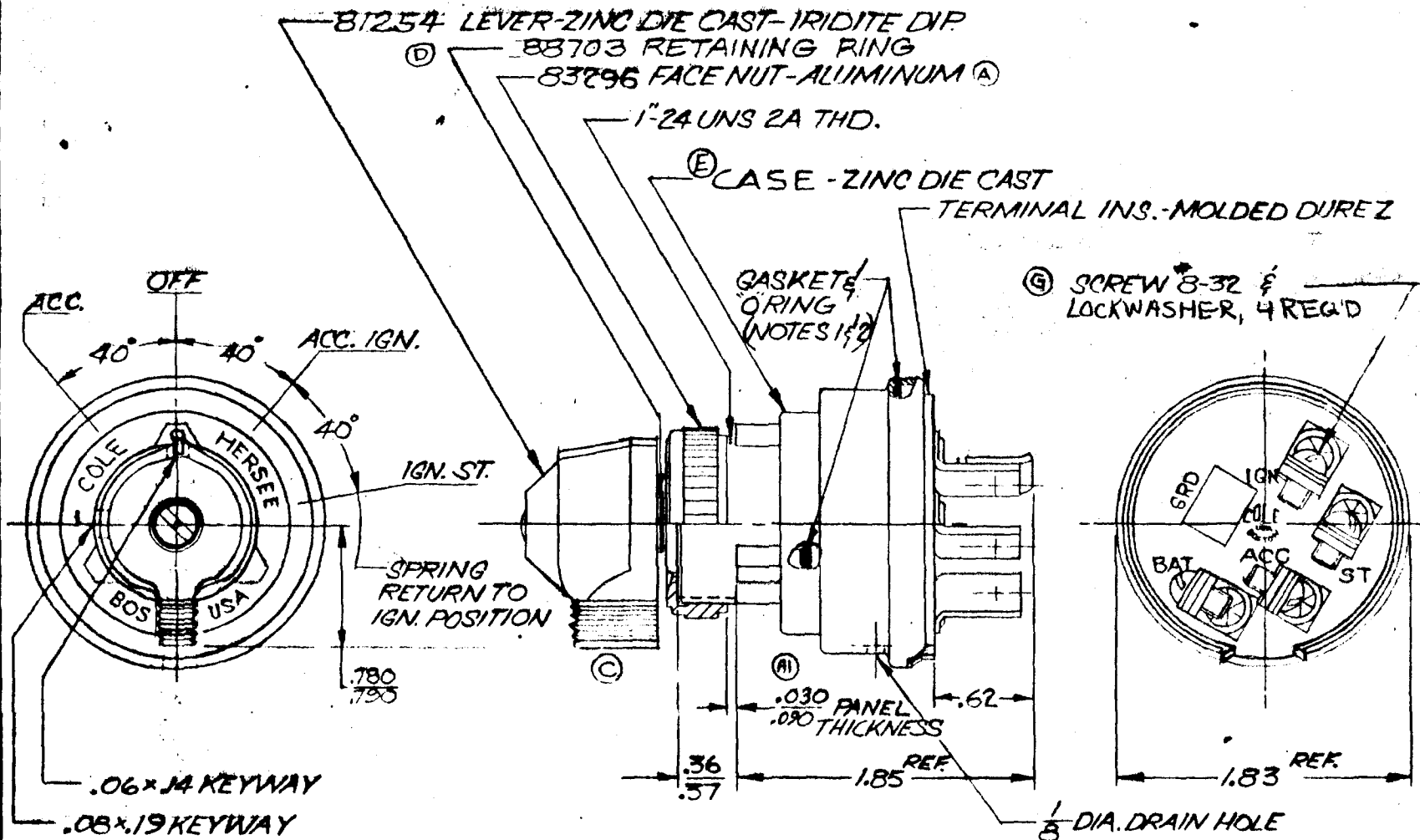
| LET | WAS | DATE | BY | LET | WAS          | DATE    | BY  | MATERIAL                      | DRAWN   | CHECKED | APPR'D. | SCALE | 4100 W/SILVER CONTACTS & FIBERITE TERM. INSUL. | DATE DRAWN     |
|-----|-----|------|----|-----|--------------|---------|-----|-------------------------------|---|---------|---------|-------|--|----------------|
|     |     |      |    |     |              |         |     | NOTED                         | RW  | B       |         | 1:1   |  | 9-16-71        |
|     |     |      |    | K   | ECN 25189    | 4/2/72  | TSH | FINISH                        | <b>COLE-HERSEE COMPANY</b><br>BOSTON, MASS. 02127, U.S.A. |         |         |       |  | DATE BLUEPRINT |
|     |     |      |    | J   | REVISEL/2245 | 6/6/84  | AK  | 11                            |   |         |         |       |  |                |
|     |     |      |    | H   | HOUSING      | 8-13-88 | PP  | TOLERANCES                    | 4 POSITION<br>IGNITION & START SWITCH                     |         |         |       |  | 956-4116       |
|     |     |      |    | G   | REDRAWN      | 7-21-75 | WJH | FRACTIONAL ±<br>DECIMAL ±.010 |   |         |         |       |  |                |

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAEJ259

956-4124

NPM. 4-10-72

EX NONE



| RATINGS AT 12V D.C. |         |
|---------------------|---------|
| ACC. CIRCUIT        | 10 AMPS |
| IGN.                | 10      |
| BT.                 | 5       |

- NOTES:
1. SHAFT O-RING SEALED TO HOUSING.
  2. TERMINAL INSULATOR GASKET SEALED.
  3. ALL STEEL PARTS PLATED

DO NOT SCALE

| LET | WAS               | DATE     | BY | LET | WAS                 | DATE      | BY  | MATERIAL                | DRAWN   | CHECKED | APPR'D | SCALE | Blk. 956 4111 | DATE DRAWN     |
|-----|-------------------|----------|----|-----|---------------------|-----------|-----|-------------------------|---|---------|--------|-------|---------------|----------------|
|     |                   |          |    | C   | 81254 LEVER / 19843 | 4-6-72    | RMT |                         | CT  | REC     |        | FULL  |               | 1-12-72        |
| G   | ECN #00138        | 3/1/00   | KE | B   | SAE SPEC ADDED      | 3-5-74    | 3W  | FINISH                  | <b>COLE-HERSEE COMPANY</b><br>BOSTON, MASS. 02127, U.S.A. |         |        |       |               | DATE BLUEPRINT |
| F   | NOT ADDED / 25234 | 12/22/92 | JH | A1  | .060 / .110         | 17877     | LY  |                         |   |         |        |       |               |                |
| E   | HOUSING           | 8-6-86   | P  | A   | 83344               | 17877     | B   | TOLERANCES FRACTIONAL ± | 4 POSITION<br>IGN. & START SWITCH                         |         |        |       |               | 956-4124       |
| D   | RING / 20329      | 10-18-78 | R  |     | ISSUE               | (1-12-72) |     | DECIMAL ±0.010          |   |         |        |       |               |                |

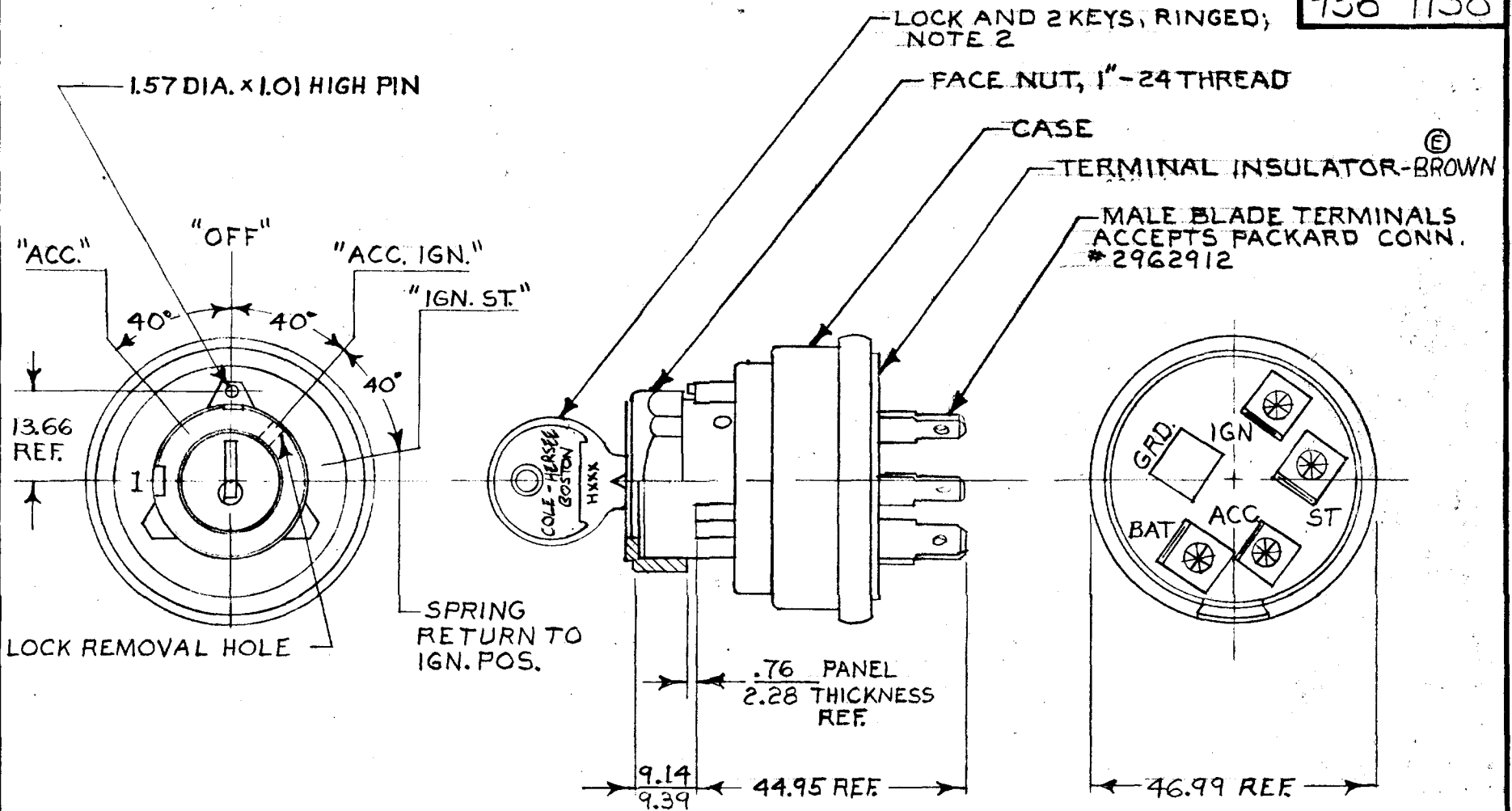
SPAULDING CO., INC.

COLE-HERSEE CO.

MM IN  
 .76 .03  
 2.28 .09  
 9.14 .36  
 9.39 .37  
 13.66 .538  
 25.65 1.01  
 39.88 1.57  
 44.95 1.77  
 46.99 1.85

956-4138


NPM 8-30-77



METRIC

- NOTES:
1. SWITCH DESIGNED TO PERMIT REMOVAL OF TUMBLER LOCK IN ACC. POSITION
  2. SWITCH SUPPLIED WITH STRATTEC<sup>®</sup> TUMBLER LOCK NO. 85144.
  3. ALL STEEL PARTS PLATED

DO NOT SCALE

| LET. | WAS | DATE | BY | LET. | WAS         | DATE     | BY  | MATERIAL   | DRAWN   | CHECKED            | APPR'D. | SCALE | DATE DRAWN                        |
|------|-----|------|----|------|-------------|----------|-----|------------|---|--------------------|---------|-------|-----------------------------------|
|      |     |      |    |      |             |          |     | ✓          | KG  | <i>[Signature]</i> |         | 1:1   | 2-5-76                            |
|      |     |      |    | G    | ECN# 27087  | 10/21/97 | AJS | FINISH     |   |                    |         |       | DATE BLUEPRINT                    |
|      |     |      |    | F    | ECN # 26335 | 10/17/96 | Jmp | ✓          |   |                    |         |       |                                   |
|      |     |      |    | E    | ECN 25189   | 8-14-92  | TJH | TOLERANCES | <br>Cole Hersee Co.<br><small>26 OLD COLONY AVENUE, SOUTH BOSTON, MA, U.S.A. 02177</small> |                    |         |       |                                   |
|      |     |      |    | L    | REDRAWN     | 8-15-89  | VK  | DECIMAL ±  |   |                    |         |       | SWITCH IGNITION &<br>START 4 POS. |
|      |     |      |    |      |             |          |     | METRIC ±   |   |                    |         |       |                                   |

CH-188(4-78)

**RATING AT 12 V.D.C.**

|              |         |
|--------------|---------|
| ACC CIRCUIT  | 20 AMPS |
| IGN. CIRCUIT | 20 AMPS |
| ST. CIRCUIT  | 20 AMPS |

TERMINAL INSULATOR, BROWN

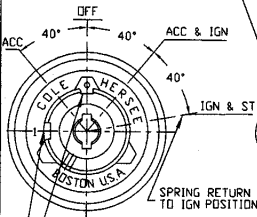
HENCOL KEY (2 KEYS RINGED)

FACE NUT, ALUMINUM

1-24-UNS-2A THD  
CASE, ZINC DIE CAST  
GASKET,  
VELLUMOID  
(NOTE #2)

"O"-RING  
(NOTE #1)

SCREW #8-32 &  
LOCKWASHER, 4 REQ'D



SPRING RETURN  
TO IGN POSITION

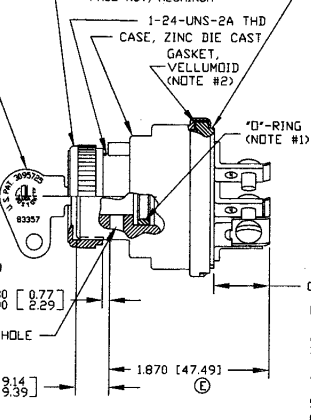
PANEL 0.030  
THICKNESS 0.090

0.125 [3.17] DRAIN HOLE

0.060 [1.52] x 0.140 [3.55] KEYWAY

0.360 [9.14]  
0.370 [9.39]

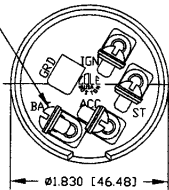
0.080 [2.03] x 0.190 [4.82] KEYWAY



0.620 [15.74]

1.870 [47.49]

(E)



ø1.830 [46.48]

NOTES:

1. SHAFT O RING SEALED TO HOUSING
2. TERMINAL INSULATOR GASKET SEALED
3. SILVER LAMINATED CONTACT SURFACE AT TERMINALS
4. SOLID SILVER RIVETS ON MOVING CONTACT
5. ALL STEEL PARTS PLATED
6. ALL DIMENSIONS REFERENCE ONLY UNLESS NOTED OTHERWISE

**Revision Control Record**

| Rev. | Description of Change | ECN No. | Date    |
|------|-----------------------|---------|---------|
| E    | FIXED DIMENSION       | 01438   | 7/26/01 |

**TOLERANCES** - Unless otherwise specifically noted, the following are default tolerances:  
 \* 2-place Decimal Dimensiones - ".XZ"  
 \* 3-place Decimal Dimensiones - ".XXX"  
 \* Angular Dimensiones - ".1-1.5 Deg."  
 \* Metric: Refer to equivalent English Dimension Tolerance  
 \*\*\* NOTE: All tolerances are *Non-Cumulative*. \*\*\*

**Dimensional Units** - All dimensiones are expressed in inches except those shown in brackets (mm) are expressed in millimetres

"NIP" or "As Shown" - Non-Tolerance Reference Dimension, shown for distribution purposes only.

**PROPRIETARY INFORMATION** - This Engineering Drawing, and the information contained herein, is proprietary to Cole Hersee Company and may not be disclosed, reproduced, or in any other way transmitted or communicated to any other party without the express written consent of an authorized representative of Cole Hersee Company.

**DESIGN CONTROL** - It is the responsibility of the individual user/manufacturer of this drawing to ensure that the stated design revision level agrees with the revision level of the Controlled Document (Master Drawing). This is a *Non-Cumulative* document unless otherwise specifically noted.

**DO NOT SCALE** - Dimensional variation may occur during printing/ reproduction.

**Key for Special Characteristics:**

- ⊕ Critical Characteristics, relating to Safety under Regulatory Compliance
- X Significant Characteristics relating to Process Control (SPC)
- ⊙ Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

Note that the identification of any characteristic as being "Special" does not alter the requirement that ALL specified dimensiones & tolerances must be met.



**Cole Hersee Co.**

20 Old Colony Ave., South Boston, MA, 02127  
 Ph: 617-288-2100 Web: www.colehersee.com

**Description:** 4 POSITION IGNITION & START SWITCH

**Drawing / Part No.:** 956-4141

**Current Rev.:** E

Used On or Ref.: TERM INSUL & SILVER CONTACTS

Scale: 1:1

Drawn: VK

Date: 9/5/78

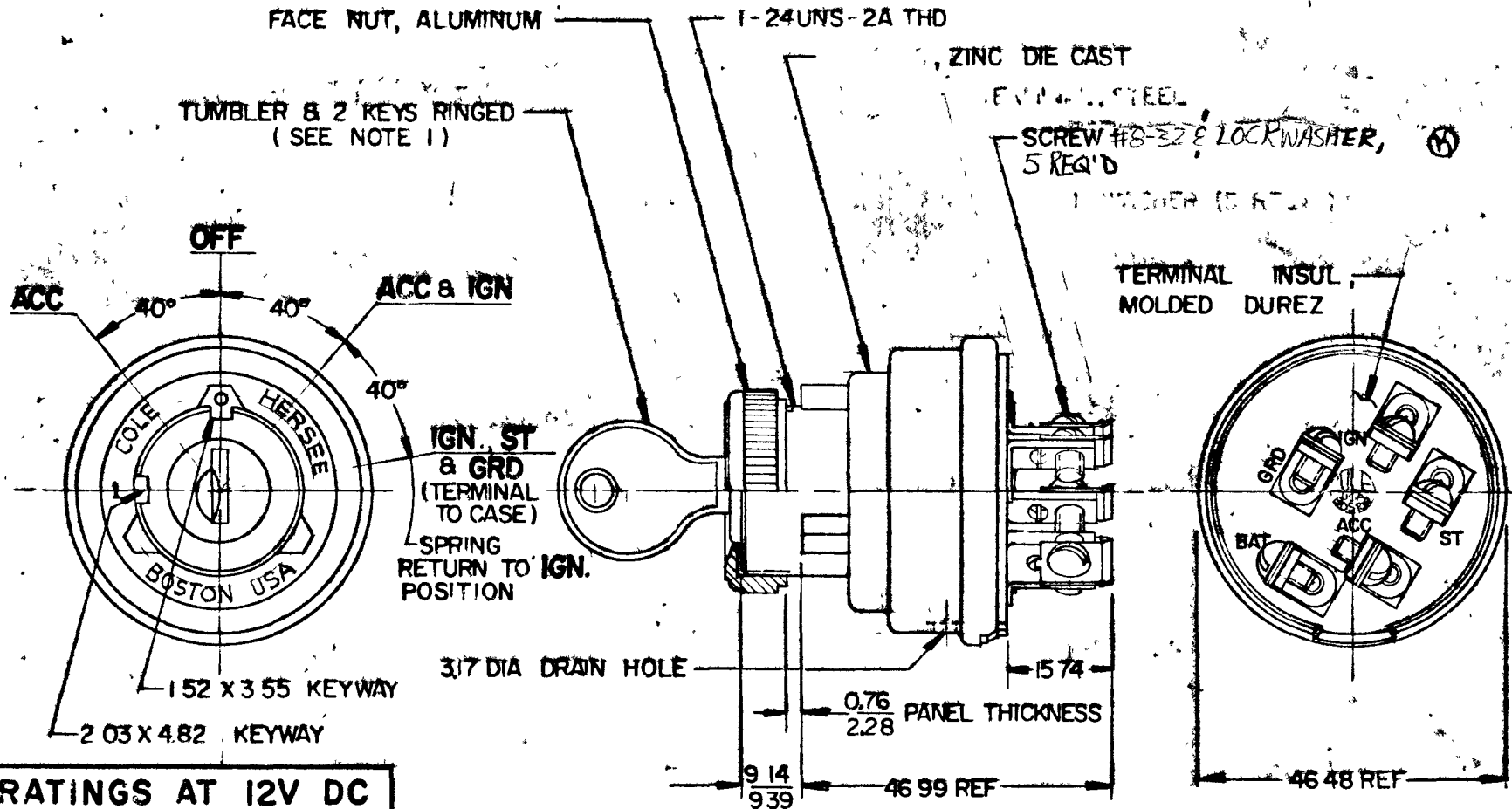
Responsible Engineer: N/A

Pg. 1 of 1

| MM    | N     |
|-------|-------|
| 0.25  | .00   |
| 0.76  | .030  |
| 1.52  | .060  |
| 2.03  | .080  |
| 2.28  | .090  |
| 3.17  | .125  |
| 3.55  | .140  |
| 4.82  | .190  |
| 9.14  | .360  |
| 9.99  | .370  |
| 15.74 | .620  |
| 46.48 | 1.830 |
| 46.99 | 1.850 |

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

956-4154



**RATINGS AT 12V DC**

|             |         |
|-------------|---------|
| ACC CIRCUIT | 10 AMPS |
| IGN CIRCUIT | 10 AMPS |
| ST CIRCUIT  | 5 AMPS  |
| GRD CIRCUIT | 1 AMP   |

**METRIC**

**NOTES:**

- 1 SHUTTER TYPE SEAL ON LOCK FACE
- 2 ALL STEEL PARTS PLATED WITH ...

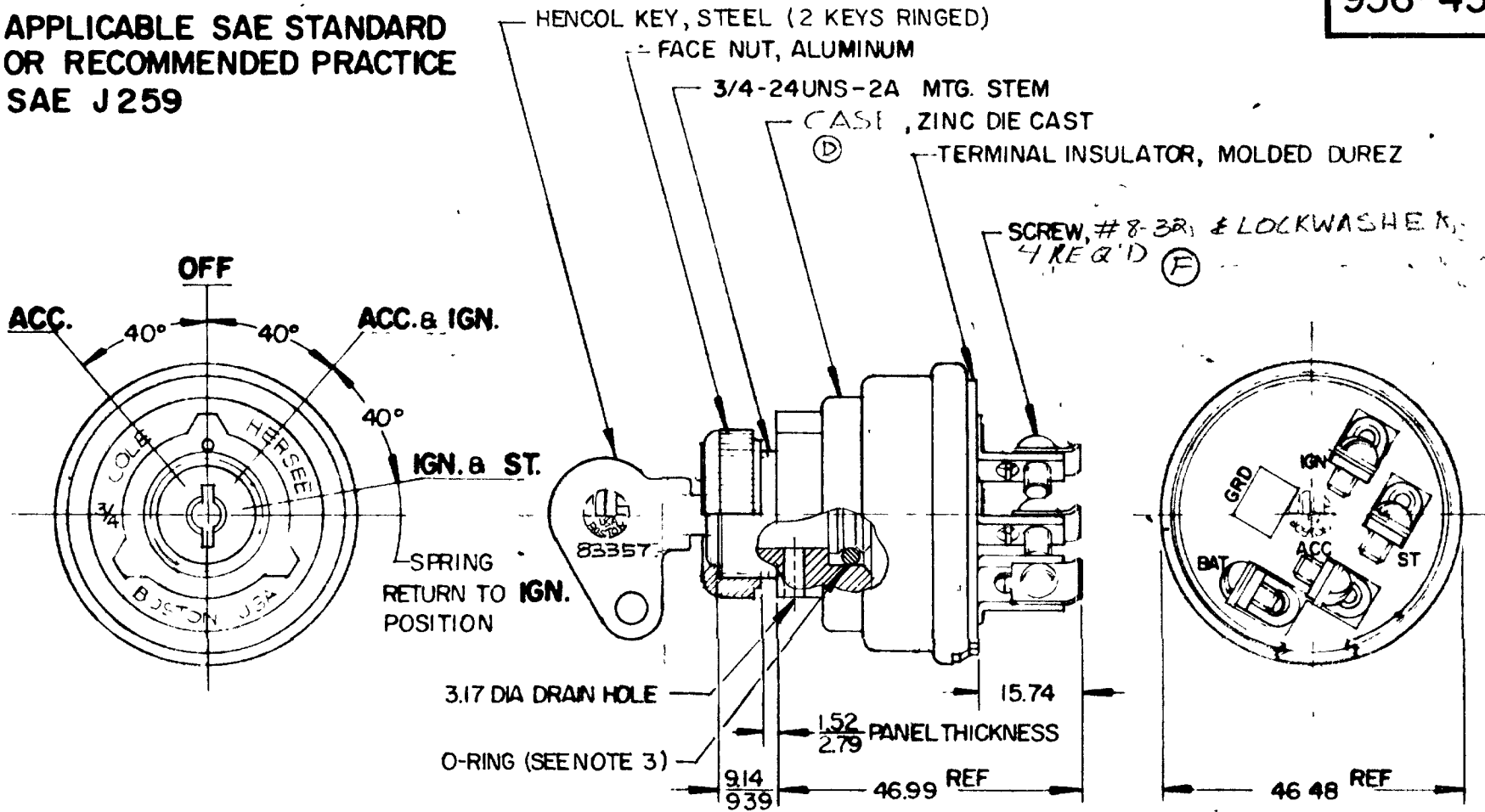
DO NOT SCALE

| LET | WAS | DATE | BY | LET | WAS | DATE | BY | MATERIAL      | DRAWN                      | CHECKED | APPR'D | SCALE | DATE DRAWN     |
|-----|-----|------|----|-----|-----|------|----|---------------|----------------------------|---------|--------|-------|----------------|
|     |     |      |    |     |     |      |    | —H—           | C F                        | 4/13/78 |        | FULL  | 2-23-67        |
|     |     |      |    |     |     |      |    | FINISH        | COLE-HERSEE COMPANY        |         |        |       | DATE BLUEPRINT |
|     |     |      |    |     |     |      |    |               | BOSTON, MASS 02127, U.S.A. |         |        |       |                |
|     |     |      |    |     |     |      |    | TOLERANCES    | 4-POSITION                 |         |        |       | 956-4154       |
|     |     |      |    |     |     |      |    | FRACTIONAL ±  | IGNITION & START SWITCH    |         |        |       |                |
|     |     |      |    |     |     |      |    | DECIMAL ±0.25 |                            |         |        |       |                |

| MM    | IN    |
|-------|-------|
| 0.25  | .010  |
| 1.27  | .050  |
| 2.79  | .110  |
| 3.17  | .125  |
| 9.14  | .360  |
| 9.39  | .370  |
| 15.74 | .620  |
| 46.48 | 1.830 |
| 46.99 | 1.850 |

956-4307

APPLICABLE SAE STANDARD  
OR RECOMMENDED PRACTICE  
SAE J259



RATINGS AT 12 V.D.C.

|              |         |
|--------------|---------|
| ACC. CIRCUIT | 10 AMPS |
| IGN. "       | 10 "    |
| ST. "        | 5 "     |

METRIC

NOTES:

- 1 TERMINAL INSUL GASKET SEALED
- 2 ALL STEEL PARTS PLATED
- 3 SHAFT O-RING SEALED TO HOUSING.

DO NOT SCALE

| LET | WAS | DATE | BY | LET | WAS               | DATE     | BY  | MATERIAL       | DRAWN | APPRVD | SCALE | DATE DRAWN     |
|-----|-----|------|----|-----|-------------------|----------|-----|----------------|-------|--------|-------|----------------|
|     |     |      |    |     |                   |          |     | #              | CF    |        | 11    | 12-12-66       |
|     |     |      |    | F   | ECN 00137         | 3/1/00   | HA  | FINISH         |       |        |       | DATE BLUEPRINT |
|     |     |      |    | I   | CAD OR ZINC/25234 | 12/18/92 | 111 | #              |       |        |       |                |
|     |     |      |    | D   | HOUSING           | 8-16-82  | PB  | TOLERANCES     |       |        |       |                |
|     |     |      |    | C   | REDRAWN           | 5-21-79  | JV  | DECIMAL ± .010 |       |        |       |                |
|     |     |      |    |     |                   |          |     | METRIC ± .25   |       |        |       |                |

**CH** Cole Hersee Co.  
7700 AVENUE SIX - BOSTON, MASS. U.S.A. 02127

4- POSITION  
IGNITION & START SWITCH

956-4307

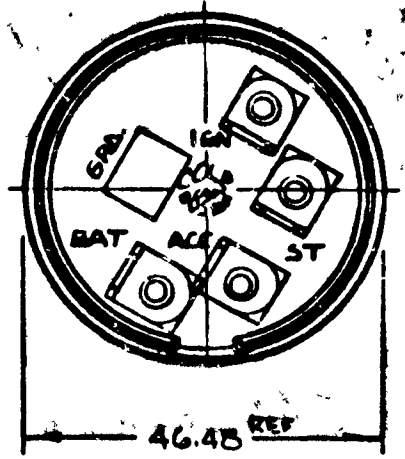
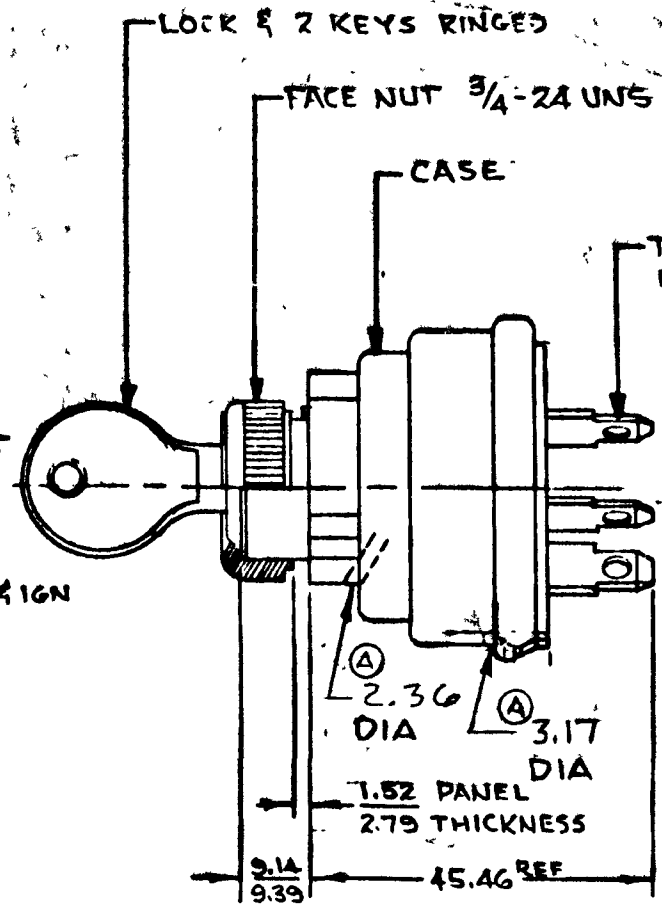
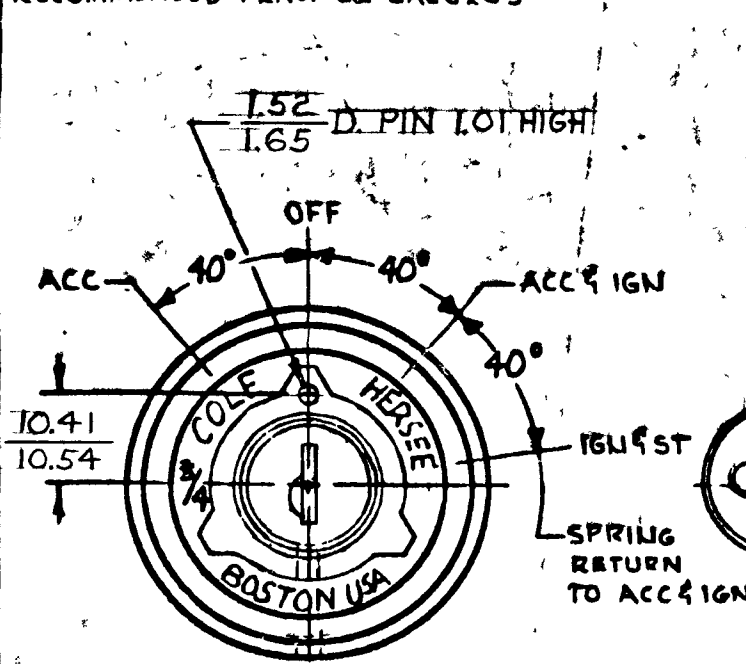
CH 188(4 78)



|       |      |
|-------|------|
| MM    | IN   |
| 1.01  | .040 |
| 1.52  | .060 |
| 1.65  | .065 |
| 2.79  | .110 |
| 3.14  | .125 |
| 3.39  | .135 |
| 3.70  | .145 |
| 4.10  | .160 |
| 4.15  | .165 |
| 1.750 | .069 |
| 1.830 | .072 |
| .093  |      |
| .125  |      |

956-4311

APPLICABLE SAE STANDARD OR  
RECOMMENDED PRACTICE SAE J269



EX 20121

- NOTES:
1. SHUTTER SEAL ON LOCK FACE
  2. LOCK O RING SEALED TO CASE
  3. TERM. INSULATOR GASKET SEALED
  - ④ 4. DRAIN HOLES ARE IN LINE 90° FROM & SHOWN

|     |         |
|-----|---------|
| ST  | 5 AMPS  |
| IGN | 10 AMPS |
| ACC | 10 AMPS |

RATING @ 12V DC

METRIC

DO NOT SCALE

| LET                                   | WAS | DATE | BY | LET | WAS                      | DATE   | BY  | MATERIAL                      | DRAWN | CHECKED | APPROVD. | SCALE    | DATE DRAWN     |
|---------------------------------------|-----|------|----|-----|--------------------------|--------|-----|-------------------------------|-------|---------|----------|----------|----------------|
|                                       |     |      |    |     |                          |        |     | #                             | RJF   | RFB     |          | 1"=1"    | 6-17-83        |
|                                       |     |      |    |     |                          |        |     | FINISH                        |       |         |          |          | DATE BLUEPRINT |
|                                       |     |      |    |     |                          |        |     |                               |       |         |          |          |                |
|                                       |     |      |    | A   | ADD'D DIM'S<br>ECN 72701 | 7-2-83 | WPS | TOLERANCES                    |       |         |          |          |                |
|                                       |     |      |    |     | ISSUED                   | 9/2/83 | LB  | DECIMAL ±.010<br>METRIC ±2.54 |       |         |          |          |                |
|                                       |     |      |    |     |                          |        |     |                               |       |         |          |          |                |
| 4 POSITION<br>IGNITION & START SWITCH |     |      |    |     |                          |        |     |                               |       |         |          | 956-4311 |                |

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

956-5109

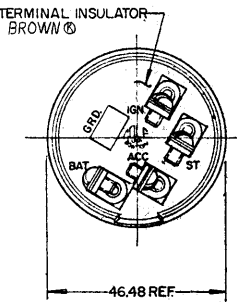
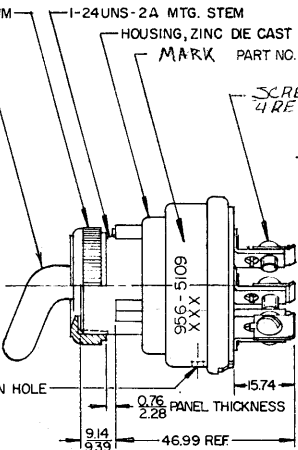
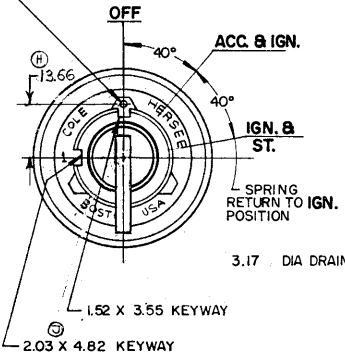
FACE NUT, ALUMINUM  
 LEVER, ZINC DIE CAST, CHROME PLT.  
 HOUSING, ZINC DIE CAST  
 MARK PART NO. & DATE CODE AT RANDOM (N)

MM  
 0.25  
 0.76  
 1.01  
 1.52  
 1.57  
 2.03  
 2.28  
 3.17  
 3.55  
 4.82  
 9.14  
 9.39  
 46.48  
 46.99  
 13.66

11 P.M. 9-28-71  
 -X-16003C

(H) 1.57 DIA. x 1.01 HIGH PIN

SCREW, # 8-32, & LOCKWASHER  
 4 REQ'D (M)



- NOTE:  
 1. TERMINAL INSULATOR GASKET SEALED  
 2. SHOULDER TYPE RIVET CONSTRUCTION  
 3. SILVER LAMINATED CONTACT SURFACES  
 (L) 4. ALL STEEL PARTS PLATED

METRIC

Confidential Property of Cole Hersee

DO NOT SCALE

| LET | WAS        | DATE   | BY | LET | WAS        | DATE  | BY       | MATERIAL | DRAWN                        | CHECKED   | APPROVED | SCALE | DATE DRAWN     |
|-----|------------|--------|----|-----|------------|-------|----------|----------|------------------------------|---|----------|-------|----------------|
|     |            |        |    | L   | ZINC       | 25034 | 12/29/70 | 5H       | —                            | RW  | 1-30-71  | 1:1   | 9-16-71        |
|     |            |        |    | K   | ECN        | 25189 | 8/13/72  | 5H       | FINISH                       |   |          |       |                |
|     |            |        |    | J   | DELTA NOTE | 23263 | 9-30-86  | ZU       | —                            |   |          |       | DATE BLUEPRINT |
| N   | ECN #00422 | 6/6/01 | MK | H   | REVISED    | 22457 | 6/6/04   | 1/4X     | TOLERANCES                   | CH Cole Hersee Co.<br>3-POSITION<br>IGNITION & START SWITCH |          |       | 956-5109       |
| M   | ECN 00137  | 3/1/00 | WH | G   | REDRAWN    |       | 1-19-71  | R        | FRACTIONAL ±<br>DECIMAL ±.25 |   |          |       |                |

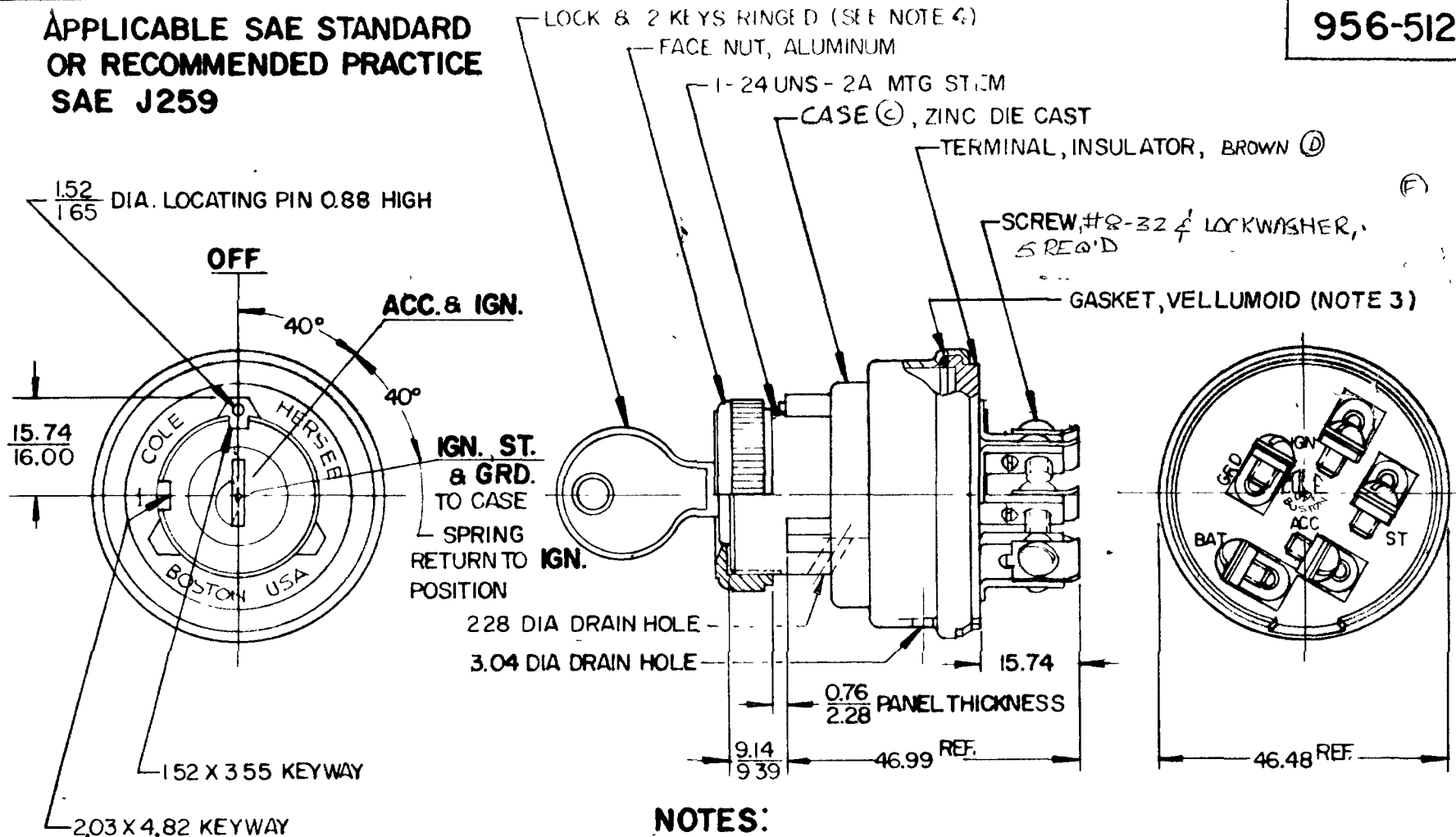
ALL EXCEPT 3-POS  
 & W/SCREW-TERM. &  
 LEVER

CH Cole Hersee Co.  
 HEADQUARTERS: 1000 W. 10TH ST., ST. LOUIS, MO. 63102  
 BRANCHES: CHICAGO, ILL.; DETROIT, MI.; MILWAUKEE, WI.

| MIM   | IN    |
|-------|-------|
| 0.2   | 0.008 |
| 0.25  | 0.010 |
| 0.38  | 0.015 |
| 0.5   | 0.020 |
| 0.65  | 0.025 |
| 1.0   | 0.040 |
| 1.25  | 0.050 |
| 1.5   | 0.060 |
| 2.0   | 0.080 |
| 2.5   | 0.100 |
| 3.0   | 0.120 |
| 3.5   | 0.140 |
| 4.0   | 0.160 |
| 4.5   | 0.180 |
| 5.0   | 0.200 |
| 6.0   | 0.240 |
| 7.0   | 0.280 |
| 8.0   | 0.320 |
| 9.0   | 0.360 |
| 10.0  | 0.400 |
| 12.0  | 0.480 |
| 14.0  | 0.560 |
| 16.0  | 0.630 |
| 18.0  | 0.710 |
| 20.0  | 0.790 |
| 25.0  | 1.000 |
| 30.0  | 1.250 |
| 35.0  | 1.500 |
| 40.0  | 1.750 |
| 45.0  | 2.000 |
| 50.0  | 2.250 |
| 60.0  | 2.750 |
| 70.0  | 3.250 |
| 80.0  | 3.750 |
| 90.0  | 4.250 |
| 100.0 | 4.750 |
| 125.0 | 5.750 |
| 150.0 | 6.750 |
| 175.0 | 7.750 |
| 200.0 | 8.750 |

**APPLICABLE SAE STANDARD  
OR RECOMMENDED PRACTICE  
SAE J259**

**956-5122**



**NOTES:**

- ① ALL STEEL PARTS PLATED
- 2. O RING SEAL AT MTG. STEM.
- 3. TERMINAL INSULATOR GASKET SEALED.
- 4. SHUTTER TYPE SEAL ON LOCK FACE.
- 5. COPPER CONTACT SURFACES.

**METRIC**

**DO NOT SCALE**

| LET | WAS | DATE | BY | LET | WAS           | DATE     | BY | MATERIAL      | DRAWN | CHECKED | APPRV'D | SCALE | BASC 956-5108<br>EXCEPT, COPPER CON<br>ORING DRAIN, GRD. CRKT | DATE DRAWN<br>1 - 7 - 75 |
|-----|-----|------|----|-----|---------------|----------|----|---------------|-------|---------|---------|-------|---|--------------------------|
|     |     |      |    | F   | ICN# 00142    | 3-11-00  | KF |               | JWH   | 1-30-79 |         | 1:1   |   |                          |
|     |     |      |    | E   | CRIMP<br>ZINC | 12-28-90 | JH | FINISH        |       |         |         |       |   |                          |
|     |     |      |    | D   | ECN 25184     | 8-13-92  | JH |               |       |         |         |       |   |                          |
|     |     |      |    | C   | HOUSING       | 8-17-82  | JH | TOLERANCES    |       |         |         |       |   |                          |
|     |     |      |    | B   | REDRAWN       | 1-19-79  | VK | FRACTIONAL ±  |       |         |         |       |   |                          |
|     |     |      |    |     |               |          |    | DECIMAL ± .25 |       |         |         |       | <b>3 - POSITION<br/>IGNITION &amp; START SWITCH</b>           | <b>956-5122</b>          |

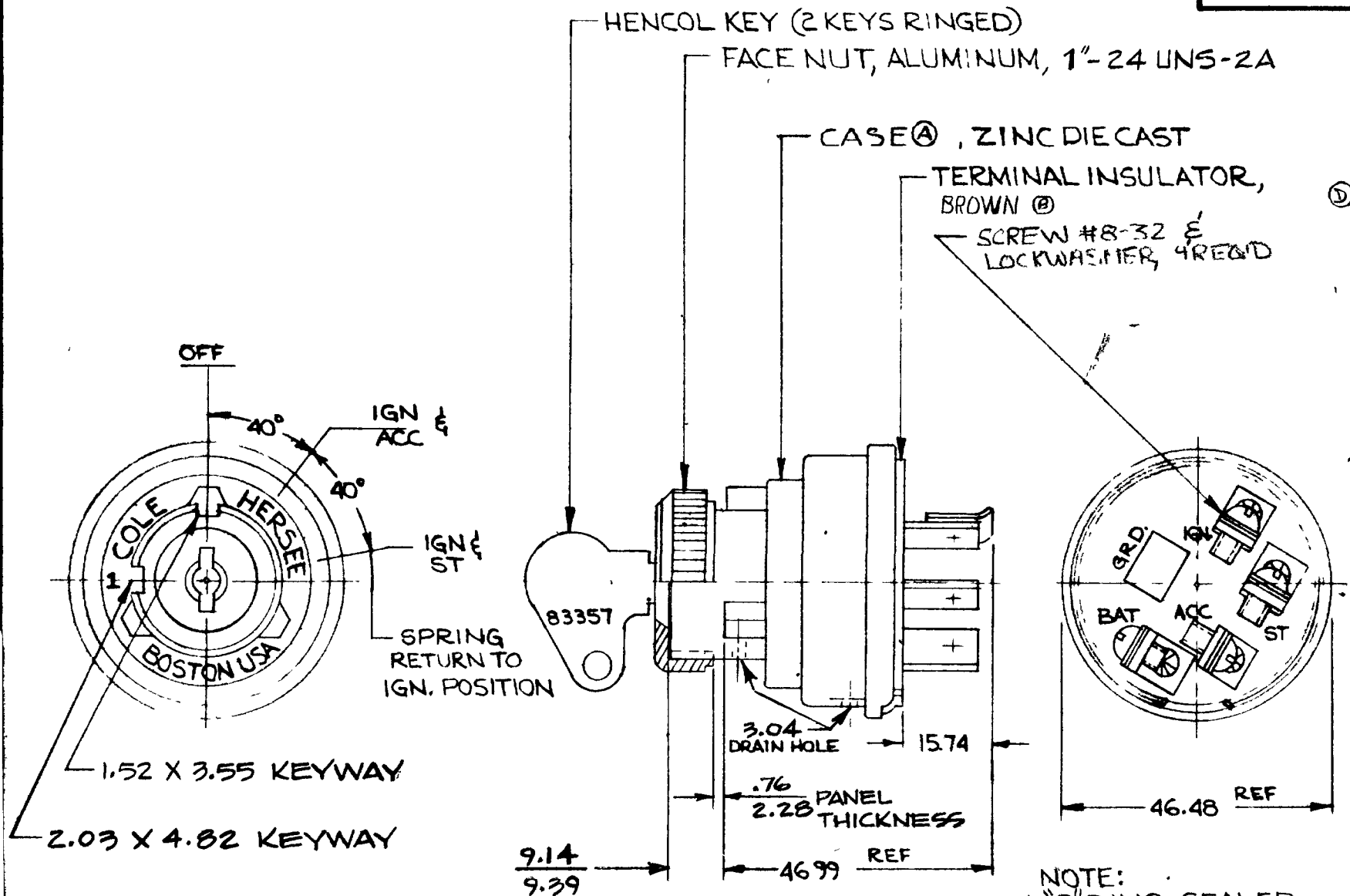
CH 189 (A 78)

| MM    | IN.   |
|-------|-------|
| .25   | .010  |
| .70   | .030  |
| 1.15  | .060  |
| 2.03  | .080  |
| 2.28  | .090  |
| 3.04  | .120  |
| 3.55  | .140  |
| 4.82  | .190  |
| 9.14  | .360  |
| 9.39  | .370  |
| 15.74 | .620  |
| 46.48 | 1.830 |
| 46.99 | 1.850 |

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

956-5124

COLE-HERSEE CO.  
N.P.M.



METRIC

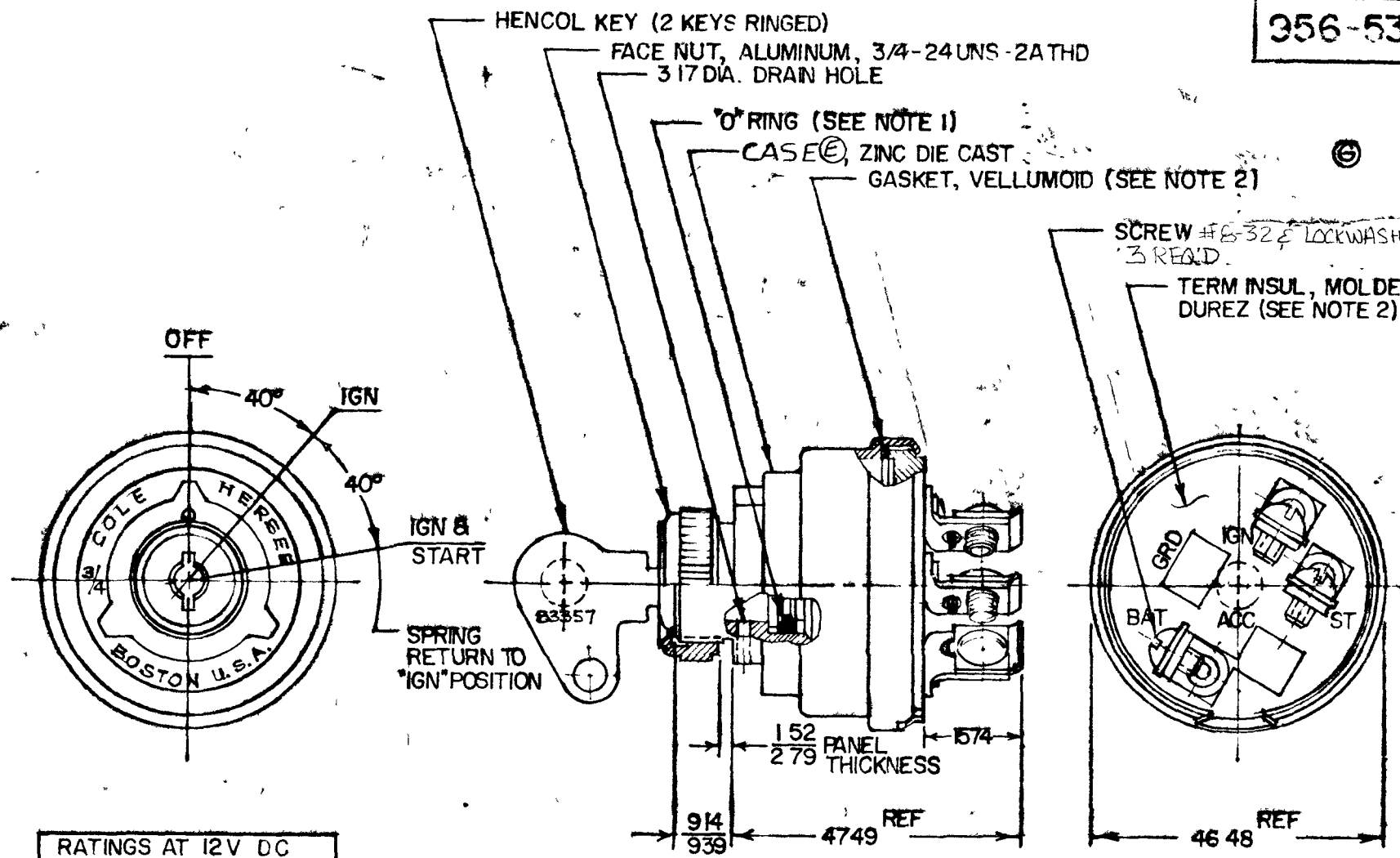
NOTE:  
1. O-RING SEALED.

© 2. ALL STEEL PARTS PLATED DO NOT SCALE

| LET   | WAS | DATE | BY | LET | WAS                | DATE     | BY | MATERIAL     | DRAWN | CHECKED | APPR'D | SCALE | BASIC 956-5115 EXCEPT O-RING SEALED | DATE DRAWN |
|---|-----|------|----|-----|--------------------|----------|----|--------------|-------|---------|--------|-------|-------------------------------------|------------|
|   |     |      |    | D   | ECN#00138          | 3/11/75  | KF | ---          | KG    | 11-5-75 |        | FULL  |                                     | 11-4-75    |
|   |     |      |    | C   | HOLE ADDED / 05039 | 12/23/80 | LH | FINISH       |       |         |        |       |                                     |            |
|   |     |      |    | B   | ECN 25189          | 8-19-92  | JH | ---          |       |         |        |       |                                     |            |
|   |     |      |    | A   | HOUSING ISSUED     | 8-17-82  | PS | TOLERANCES   |       |         |        |       |                                     |            |
|   |     |      |    |     |                    | 3-3-77   | PS | FRACTIONAL ± |       |         |        |       |                                     |            |
|   |     |      |    |     |                    |          |    | DECIMAL ±.25 |       |         |        |       |                                     |            |
| <b>COLE-HERSEE COMPANY</b><br>BOSTON, MASS. 02127, U.S.A. |     |      |    |     |                    |          |    |              |       |         |        |       | DATE BLUEPRINT                      |            |
| <b>IGN. START SWITCH</b>                                  |     |      |    |     |                    |          |    |              |       |         |        |       | 956-5124                            |            |

|       |       |
|-------|-------|
| MM    | IN    |
| 1.52  | .010  |
| 2.79  | .106  |
| 3.14  | .110  |
| 3.39  | .330  |
| 3.74  | .370  |
| 4.48  | .620  |
| 5.49  | .830  |
| 7.49  | 1.270 |
| 13.17 | 1.25  |

356-5307



| RATINGS AT 12V DC |         |
|-------------------|---------|
| IGN CIRCUIT       | 10 AMPS |
| START             | 5       |

- NOTE
1. SHAFT O RING SEALED TO CASE
  2. TERM INSUL GASKET SEALED
  3. ALL STEEL PARTS PLATED 11T W/DIC-IRON, FL DIP OR CAL 17
  4. APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

**METRIC**

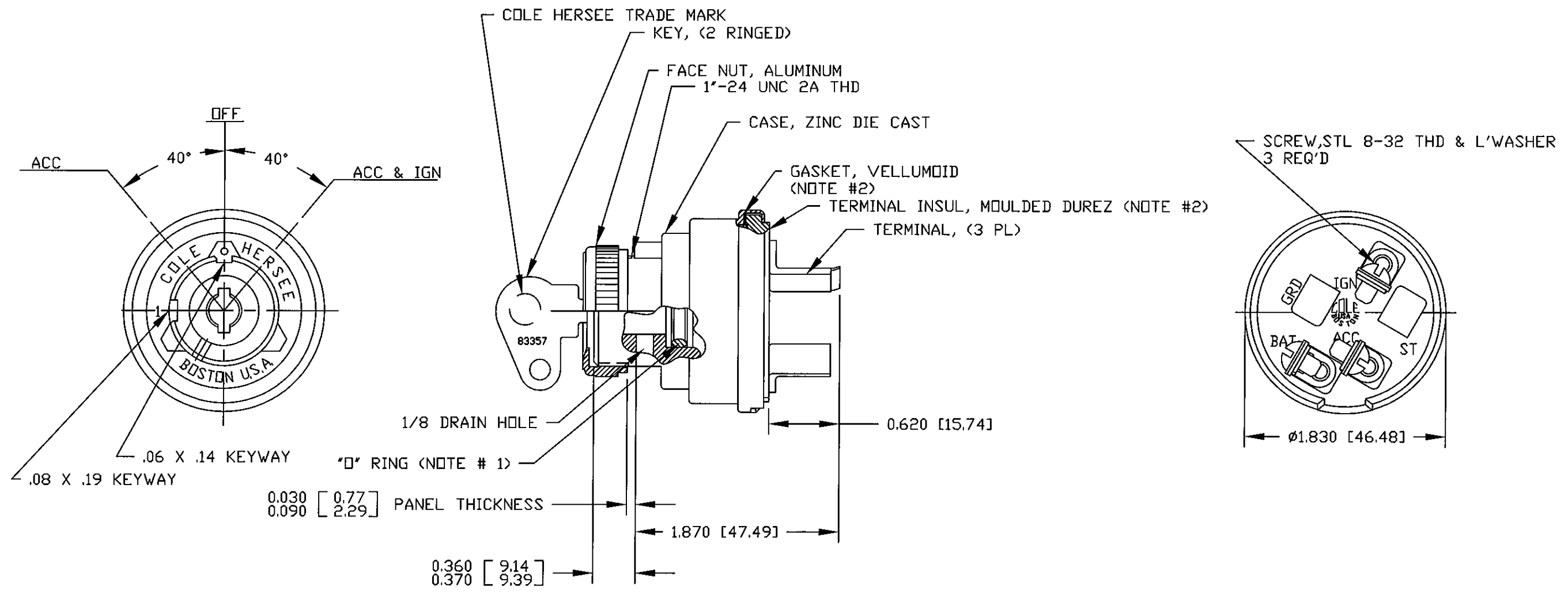
DO NOT SCALE

| LET | WAS | DATE | BY | LET | WAS         | DATE     | BY | MATERIAL      | DRAWN   | CHECKED  | APPRV D | SCALE | DATE DRAWN     |
|-----|-----|------|----|-----|-------------|----------|----|---------------|---|----------|---------|-------|----------------|
|     |     |      |    |     |             |          |    | —             | CF  | 11-20-78 |         | 1:1   | 1-10-66        |
|     |     |      |    | G   | LEN # 60139 | 3/1/00   | KF | FINISH        | <br>WOLD COLONY AVENUE SOUTH BOSTON MA U.S.A. 02127 |          |         |       | DATE BLUEPRINT |
|     |     |      |    | F   | CADU Y25239 | 12/18/92 | 14 | —             |   |          |         |       |                |
|     |     |      |    | E   | HOUSING     | 8-17-82  | PS | TOLERANCES    | <b>3 POS IGNITION &amp; START SW 956-5307</b>       |          |         |       | 956-5307       |
|     |     |      |    | D   | REDRAWN     | 11-8-78  | R  | FRACTIONAL ±  |   |          |         |       |                |
|     |     |      |    |     |             |          |    | DECIMAL ± .25 |   |          |         |       |                |

CH-188 (4-78)

**Revision Control Record**

| Rev. | Description of Change | ECN No. | Date     |
|------|-----------------------|---------|----------|
| J    | PUT ON CAD            | 08552   | 10/09/08 |
|      |                       |         |          |
|      |                       |         |          |



- NOTE:**
1. SHAFT "O" RING SEALED TO CASE
  2. TERMINAL INSULATOR GASKET SEALED
  3. ALL STEEL PARTS PLATED
  4. ALL DIMENSION REFERENCE
  5. APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

| RATINGS @ 12V DC |         |
|------------------|---------|
| ACC. CIRCUIT     | 10 AMPS |
| IGN.             | 10 AMPS |

**Tolerances** Unless otherwise specifically noted, the following are default tolerances:  
 \* 2-place Decimal Dimensions +/- .02"  
 \* 3-place Decimal Dimensions +/- .005"  
 \* Angular Dimensions +/- 1.0 Deg.  
 \* Metric: Refer to equivalent English Dimension Tolerance  
 >>> NOTE: All tolerances are Non-Cumulative. <<<

**Dimensional Units** All dimensions are expressed in inches except those shown in brackets (xxx) are expressed in millimeters

"REF." or an Asterisk (\*) = Non-Toleranced Reference Dimension, shown for clarification purposes only.

Used On or Ref.: Scale: **1:1** Drawn By: **CF** Date Drawn: **10/06/66**

**PROPRIETARY INFORMATION** This Engineering Drawing, and the information contained herein, is proprietary to Cole Hersee Company and may not be disclosed, re-produced, or in any other way transferred or communicated to any other party without the express written consent of an authorized representative of Cole Hersee Company.

**DESIGN CONTROL** It is the responsibility of the individual using / referencing this drawing to assure that the noted design revision level agrees with the revision level of the Controlled Document (Master Drawing). This is a NON-CONTROLLED DOCUMENT unless otherwise specifically noted.

DO NOT SCALE - Dimensional variation may occur during printing / reproduction.

**Special Characteristics:**

- CC Critical Characteristic, relating to Safety and/or Regulatory Compliance
- X Significant Characteristic relating to Process Control (SPC)
- KC Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

(Note that the identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met)

**Cole Hersee Co.**  
 20 Old Colony Ave., South Boston, MA, 02127  
 Phn: 617-268-2100 Web: www.colehersee.com

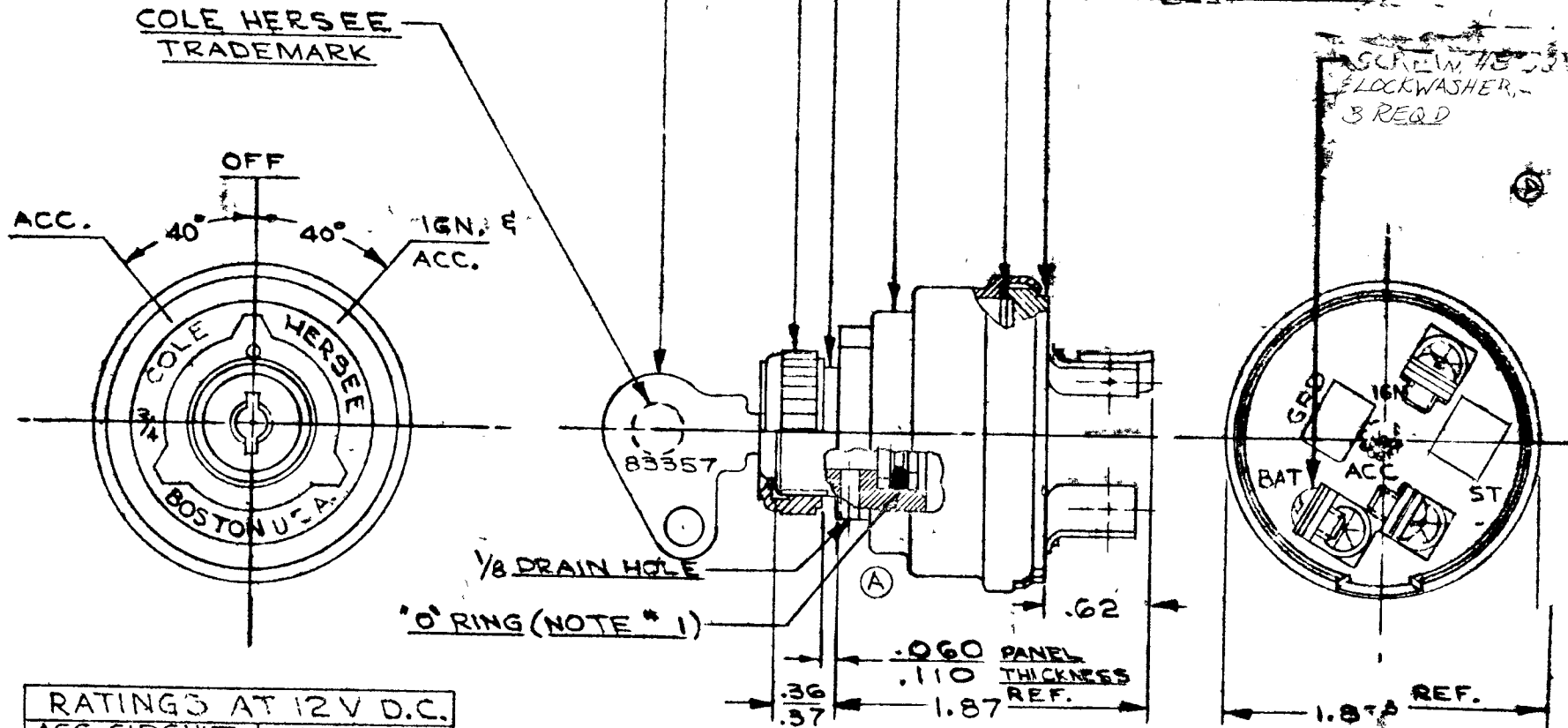
**Description:**  
**ACC-IGNITION SW**

Drawing / Part No.: **956-6107**

Pg. 1 of 1 **J**

COLE-HERSEE CO.

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259



956-6307

| RATINGS AT 12 V D.C. |         |
|----------------------|---------|
| ACC. CIRCUIT         | 10 AMPS |
| IGN.                 | 10      |

- NOTE:
1. SHAFT "O" RING SEALED TO CASE
  2. TERMINAL INSULATOR GASKET SEALED
- © 3 ALL STEEL PARTS PLATED

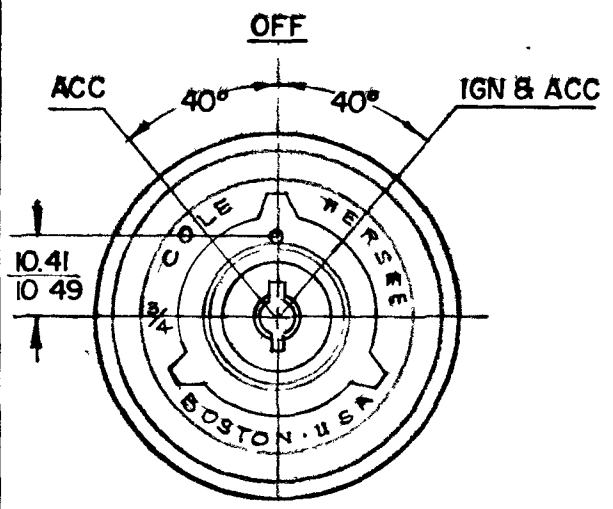
| REV  | WAS | DATE | BY | REV | WAS            | DATE     | BY | MATERIAL | DRAWN | CHECKED | APPROV'D | SCALE | USED ON | DATE DRAWD |
|--|-----|------|----|-----|----------------|----------|----|----------|-------|---------|----------|-------|---------|------------|
|  |     |      |    | F   | FCM COPY       | 3/2/88   | MA |          | CF    | UM      |          | FULL  |         | 1-31-67    |
|  |     |      |    | C   | NOTE 3 ADDED   | 12/18/92 | JH |          |       |         |          |       |         |            |
|  |     |      |    | B   | HOUSING        | 8-17-82  | RS |          |       |         |          |       |         |            |
|  |     |      |    | A   | STL SPEC ADDED | 3-4-74   | W  |          |       |         |          |       |         |            |
|  |     |      |    |     | ISSUED         | 3-9-67   | HF |          |       |         |          |       |         |            |
| <b>COLE-HERSEE COMPANY</b><br>BOSTON 27, MASS., U.S.A. |     |      |    |     |                |          |    |          |       |         |          |       |         | DATE DRAWD |
| <b>ACC-IGNITION SWITCH</b>                             |     |      |    |     |                |          |    |          |       |         |          |       |         | PART NO    |
|  |     |      |    |     |                |          |    |          |       |         |          |       |         | 956-6307   |

**COLE-HERSEE CO.**  
 NPM 6-6-79  
 EX-18452

| MM    | IN    |
|-------|-------|
| .25   | .010  |
| 1.52  | .060  |
| 2.79  | .110  |
| 9.14  | .360  |
| 9.39  | .370  |
| 15.74 | .620  |
| 46.48 | 1.830 |
| 47.49 | 1.870 |
| 3.17  | .125  |
| 1.01  | .040  |
| 1.65  | .065  |
| 10.41 | .410  |
| 16.49 | .413  |

| SEQ | DEPT. | OPERATING INSTRUCTIONS | DIE | MACH |
|-----|-------|------------------------|-----|------|
|     |       |                        |     |      |
|     |       |                        |     |      |
|     |       |                        |     |      |
|     |       |                        |     |      |

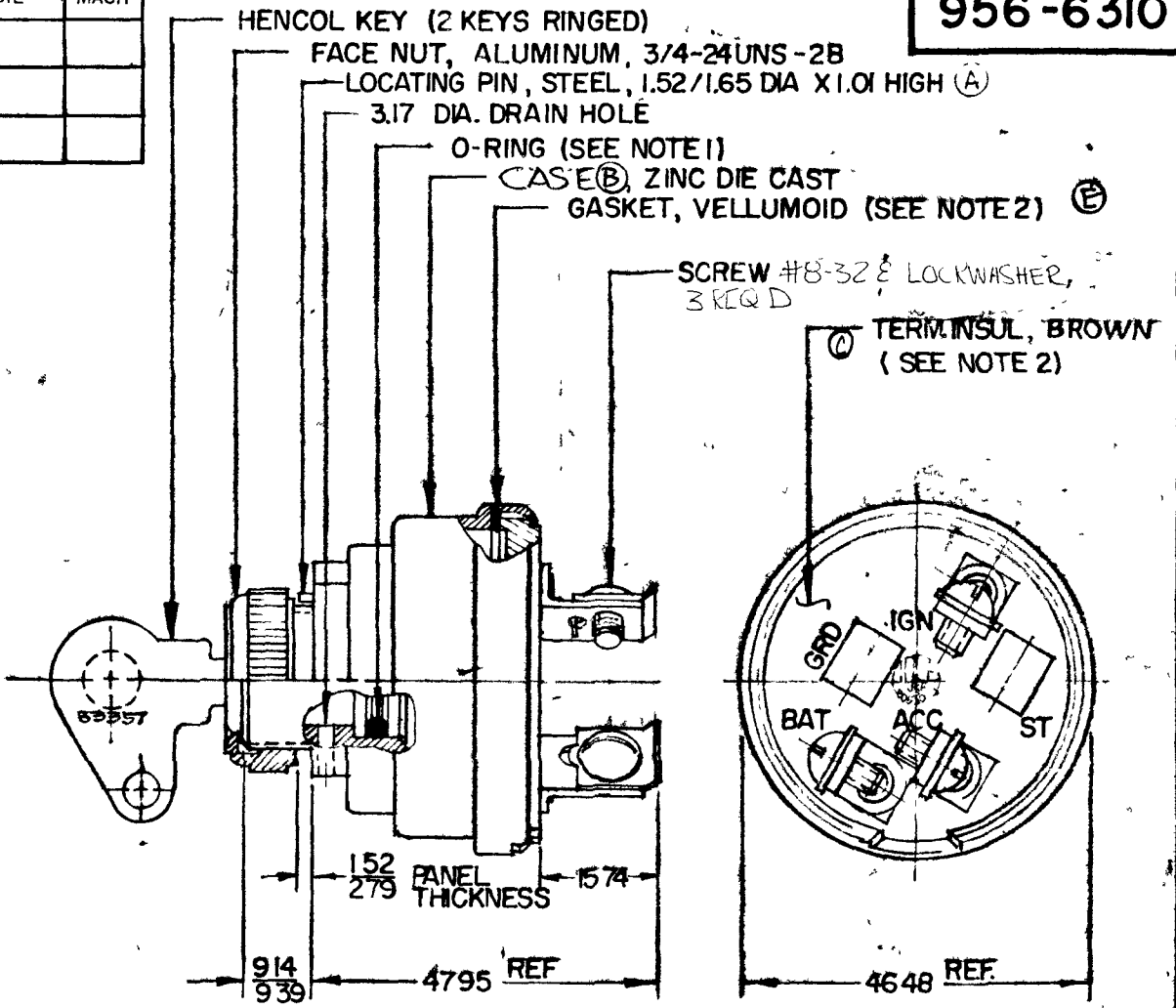
**956-6310**



| RATINGS AT 12V DC |         |
|-------------------|---------|
| ACC. CIRCUIT      | 30 AMPS |
| IGN.              | 10      |

APPLICABLE SAE STANDARDS OR RECOMMENDED PRACTICE SAE J259

**METRIC**



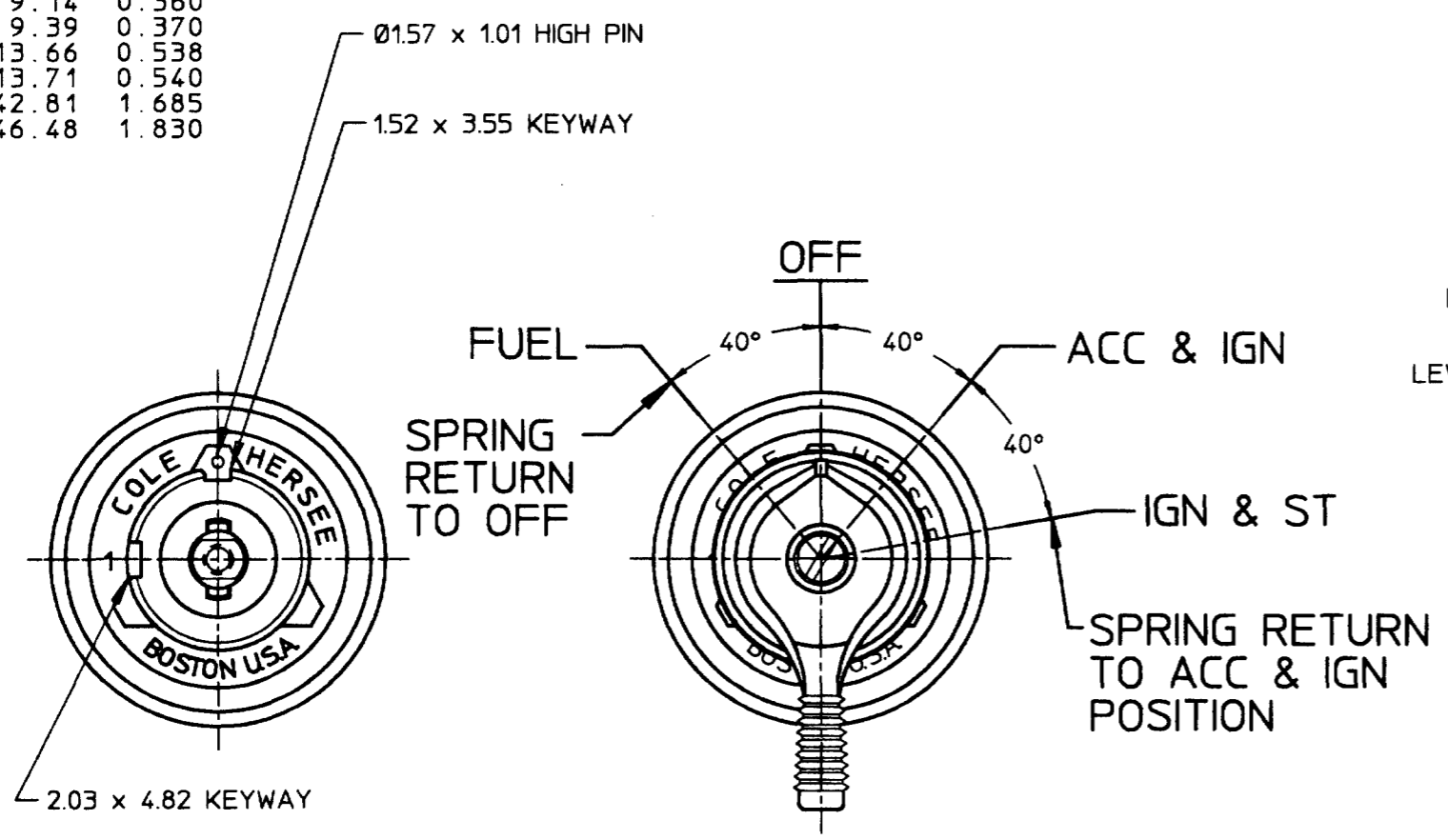
- NOTE:**
1. SHAFT O-RING SEALED TO CASE
  2. TERM INSUL GASKET SEALED
  3. COPPER RIVETS ON MOVABLE CONTACT
  4. ALL STEEL PARTS PLATED

| LET | WAS        | DATE   | BY | LET    | WAS         | DATE     | BY  | MATERIAL                                   | DRAWN  | CHECKED | APPR'D | SCALE | 956-6310 W/ PIN, FIBER TE INSUL & COPPER RIVETS ON CONTACT | DO NOT SCALE          |
|-----|------------|--------|----|--------|-------------|----------|-----|--|--|---------|--------|-------|--|-----------------------|
|     |            |        |    | D      | ZINC 126234 | 12/18/92 | TJH | —  | RMT  | 5-23-79 |        | 1:1   |  | DATE DRAWN<br>3-12-79 |
|     |            |        |    | C      | ECN 25189   | 8-14-92  | TJH | FINISH                                     | <b>COLE-HERSEE COMPANY</b><br>BOSTON, MASS 02127, U.S.A. |         |        |       |  | DATE BLUEPRINT        |
|     |            |        |    | B      | HOUSING     | 8/1/82   | PB  | —  |  |         |        |       |  |                       |
|     |            |        |    | A      | REV 20702   | 9-12-79  | JV  | TOLERANCES<br>FRACTIONAL ±<br>DECIMAL ±.25 | <b>ACC - IGNITION SWITCH</b>                             |         |        |       |  | <b>956-6310</b>       |
| E   | ECN #00139 | 3/1/00 | MF | ISSUED | 6-1-19      | Y        |     |  |  |         |        |       |  |                       |

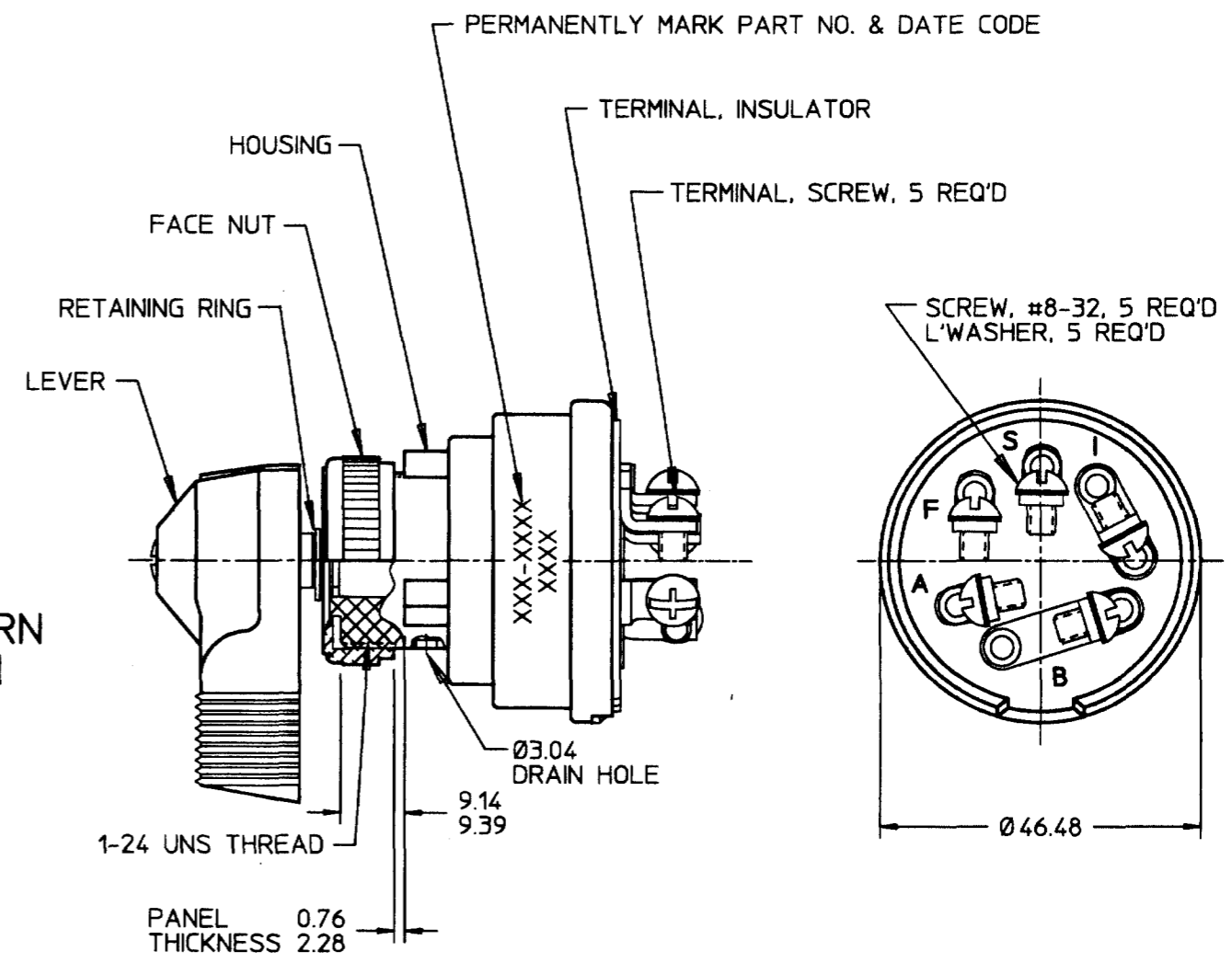
SPAULDING CO., INC



| MM    | IN    |
|-------|-------|
| 0.76  | 0.030 |
| 1.01  | 0.040 |
| 1.52  | 0.059 |
| 1.57  | 0.061 |
| 2.03  | 0.080 |
| 2.28  | 0.090 |
| 3.04  | 0.120 |
| 3.55  | 0.140 |
| 4.82  | 0.190 |
| 9.14  | 0.360 |
| 9.39  | 0.370 |
| 13.66 | 0.538 |
| 13.71 | 0.540 |
| 42.81 | 1.685 |
| 46.48 | 1.830 |



FRONT VIEW SHOWN W/O LEVER AND FACE NUT



- NOTES:
1. ALL STEEL PARTS PLATED
  2. ALL DIMENSIONS ARE REFERENCE ONLY UNLESS OTHERWISE SPECIFIED
  3. SHAFT O-RING SEALED TO CASE
  4. TERMINAL INSULATOR GASKET SEALED
  5. APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

DO NOT SCALE

| RATING AT 12 VDC |        | LEGEND    |   |
|------------------|--------|-----------|---|
| ACCESSORY        | 10 AMP | BATTERY   | B |
| IGNITION         | 10 AMP | ACCESSORY | A |
| START            | 5 AMP  | IGNITION  | I |
| FUEL             | 10 AMP | START     | S |
|                  |        | FUEL      | F |

METRIC

| LET. | WAS | DATE | BY | LET. | WAS       | DATE     | BY  | MATERIAL                                   | DRAWN  | CHK | APVD | SCALE | DATE DRAWN             |
|------|-----|------|----|------|-----------|----------|-----|--|--|-----|------|-------|------------------------|
|      |     |      |    |      |           |          |     | N/A  | JMP  | 4   | N/A  | 1:1   | 11/24/97               |
|      |     |      |    |      |           |          |     | FINISH                                     | <b>Cole Hersee Co.</b><br>20 OLD COLONY AVENUE, BOSTON, MA., U.S.A., 02127 |     |      |       | DATE BLUEPRINTED       |
|      |     |      |    |      |           |          |     | N/A  |  |     |      |       | SW, IGN & START, 4 POS |
|      |     |      |    | A    | ECN 00521 | 06/28/00 | DPS | TOLERANCES<br>DECIMAL ± N/A<br>ANGLE ± N/A |  |     |      |       |                        |

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9