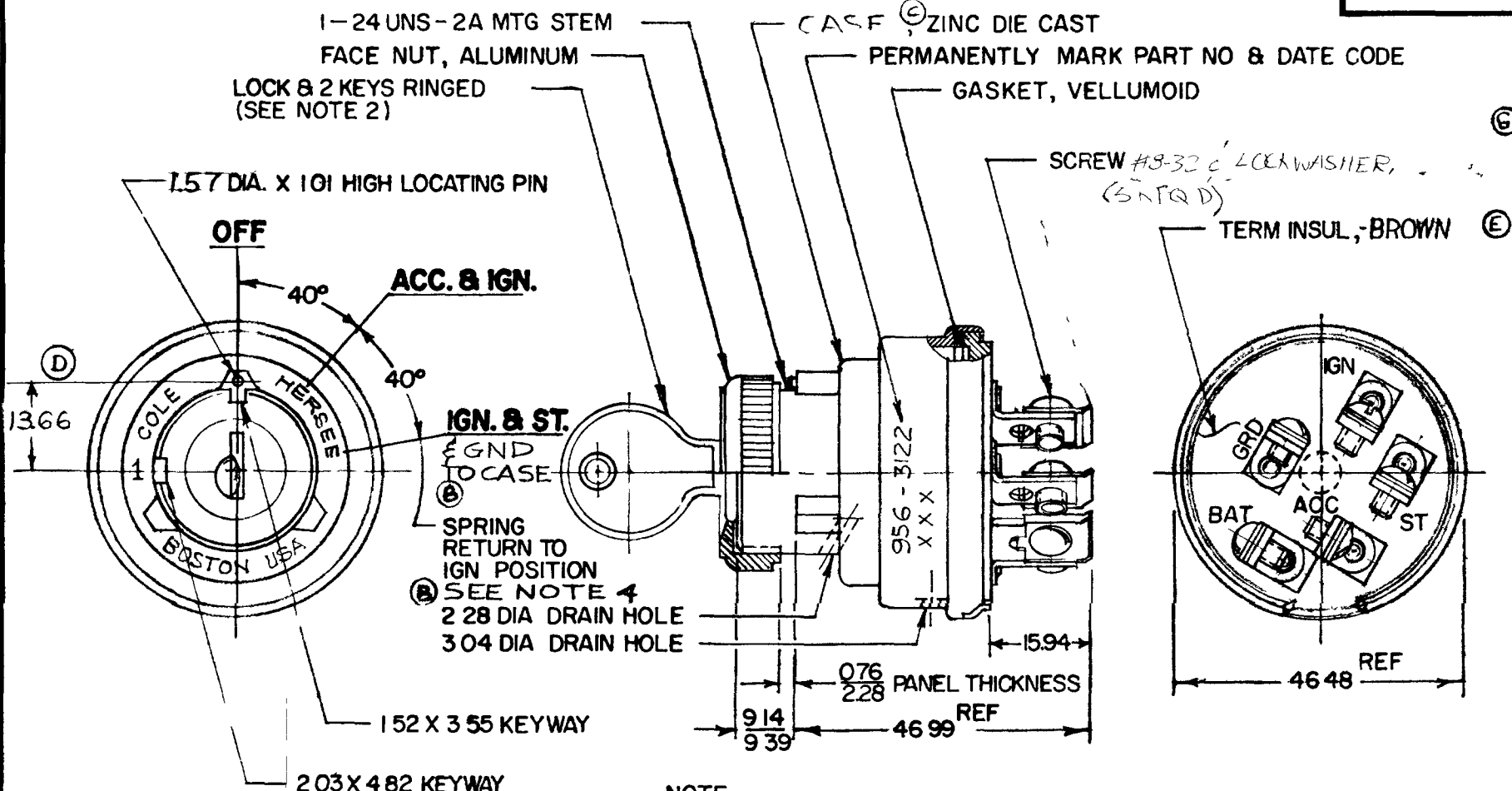


MM	IN
.25	.010
.76	.030
1.01	.040
1.52	.060
1.65	.065
2.03	.080
2.28	.090
3.04	.120
3.55	.140
4.82	.190
9.14	.360
9.39	.370
15.74	.620
16.00	.630
46.48	1.830
46.99	1.850
157	6.2
13.66	53.8

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	4-2-79		11	1-6-76
				D	1600/22457	6-5-84	AK	FINISH					DATE BLUEPRINT
				C	HOUSING	8-17-88	DB	— # —					
G	25189	11/10/92	1P	B	NOTY ADDS 21267	12-22-80	DB	TOLERANCES					
F	CAD ON / 25239	12/22/92	1P	A	REDRAWN	3-22-79	FR	DECIMAL ±					
								METRIC ± .25					

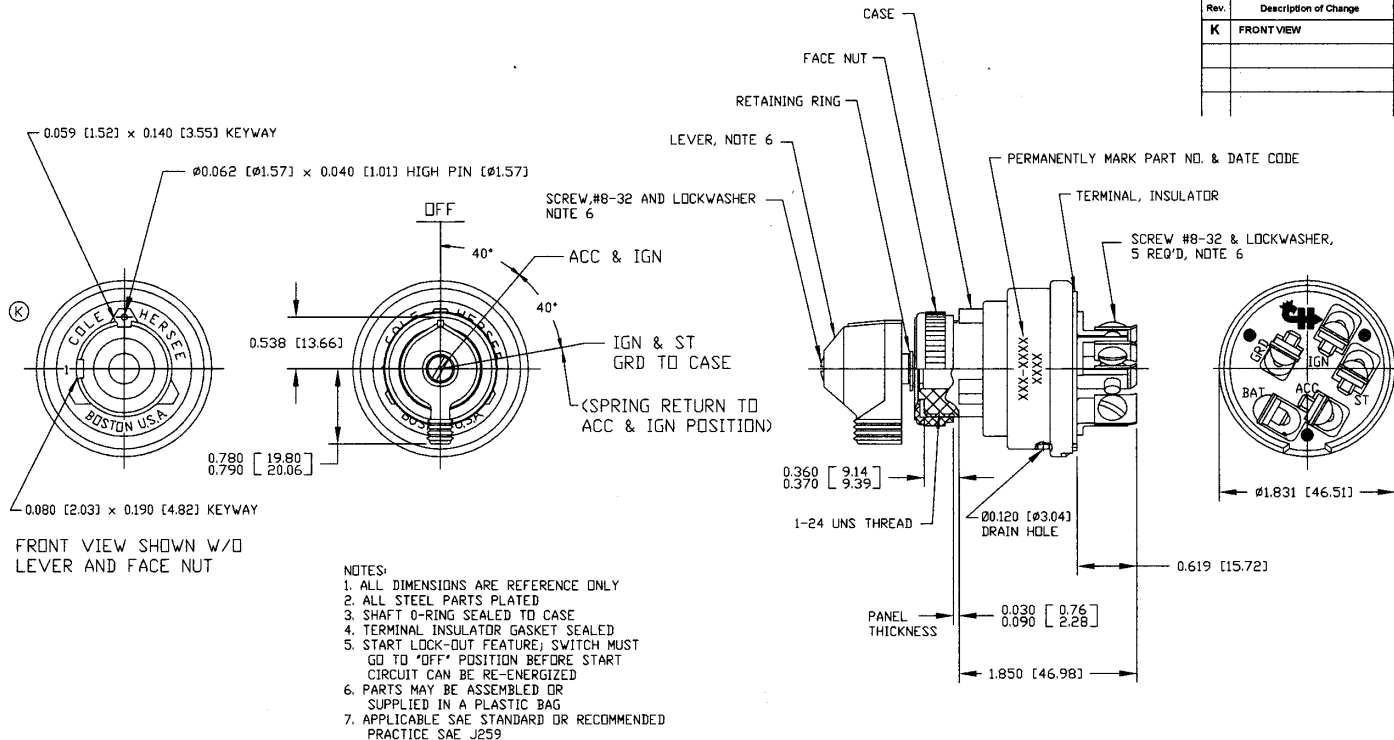
CH Cole Hersee Co.
20 OLD CO ONLY A ENUE SOUT BOSTON M. U.S. 27

3- POSITION
IGNITION & START SWITCH 956-3122

CH 188(4 78)

Revision Control Record

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



Interchange: Unless otherwise specifically noted, the following are default dimensions:

- Replace Decimal Dimensions $\pm .02"$
- Replace Decimal Dimensions $\pm .001"$
- Angular Dimensions ± 1.0 Deg.

*** NOTE: All tolerances are Non-Consultative. ***

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

*MSP" or as Available, C" = Non-Toleranced Reference Dimension, shown for identification purposes only.

Used On: EX26018

Scale: 1:1

Drawn By: KPC

Date Drawn: 4/17/96

Special 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 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
 PHN: 617-268-2100 Web: www.colehersee.com

Description: SW, IGN & START, 3 POS

Drawing / Part No.: 956-3124

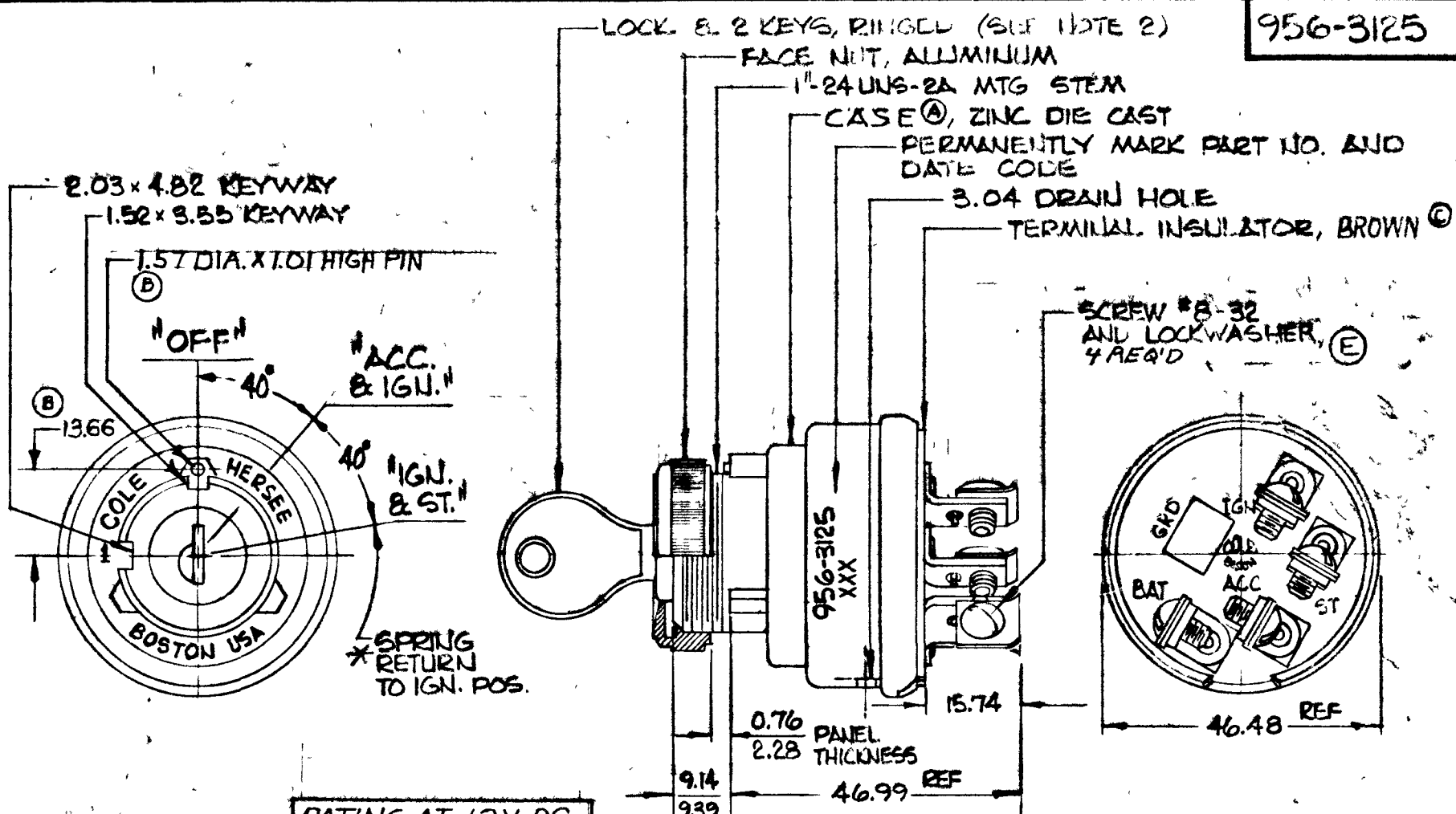
Current Rev.: K

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

MM IN
 .025 .010
 .076 .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

46.98 1.850
 46.99 1.850
 3.04 .120
 13.66 .538

COLE-HERSEE CO.
 NPM



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

METRIC

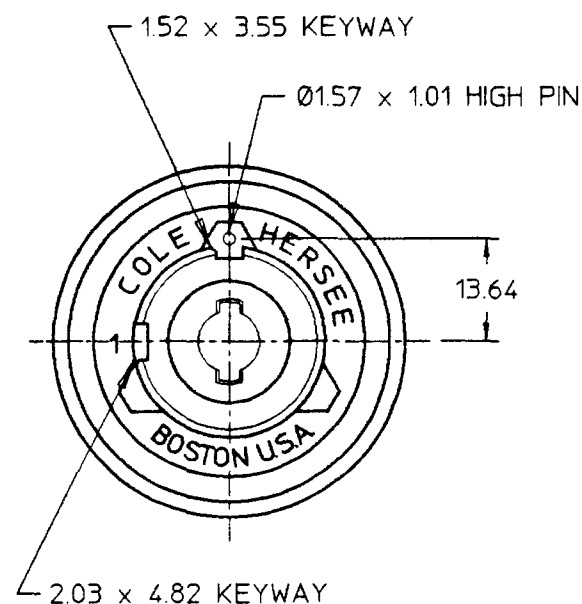
- NOTES:
1. TERMINAL INSULATOR GASKET SEALED.
 2. SHUTTER TYPE SEAL ON LOCK FACE.
 - *3. START LOCK-OUT FEATURE; SWITCH MUST GO TO "OFF" POSITION BEFORE START CIRCUIT CAN BE RE-ENERGIZED.
 4. APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259.
 - ⑤ ALL STEEL PARTS PLATED

DO NOT SCALE

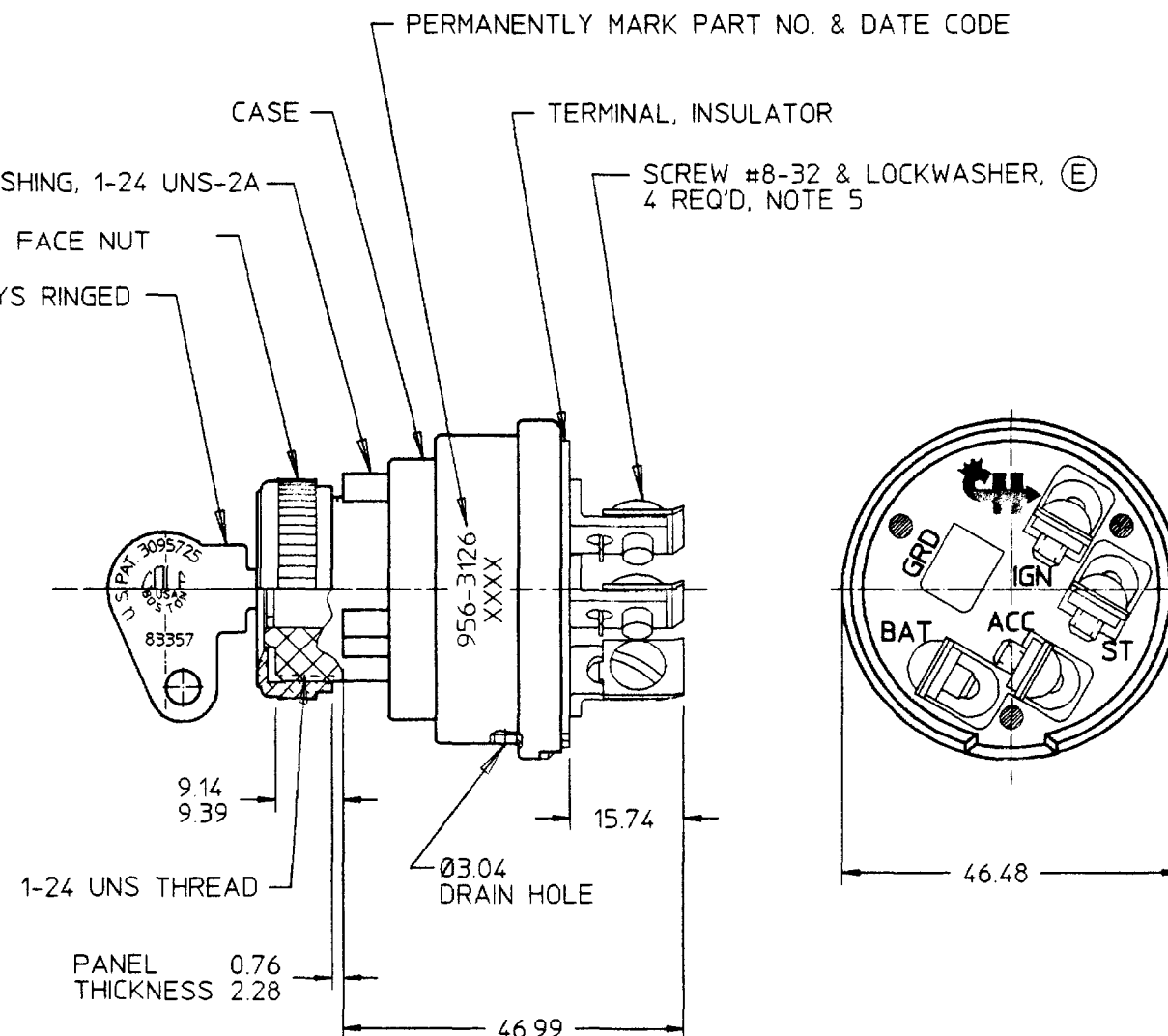
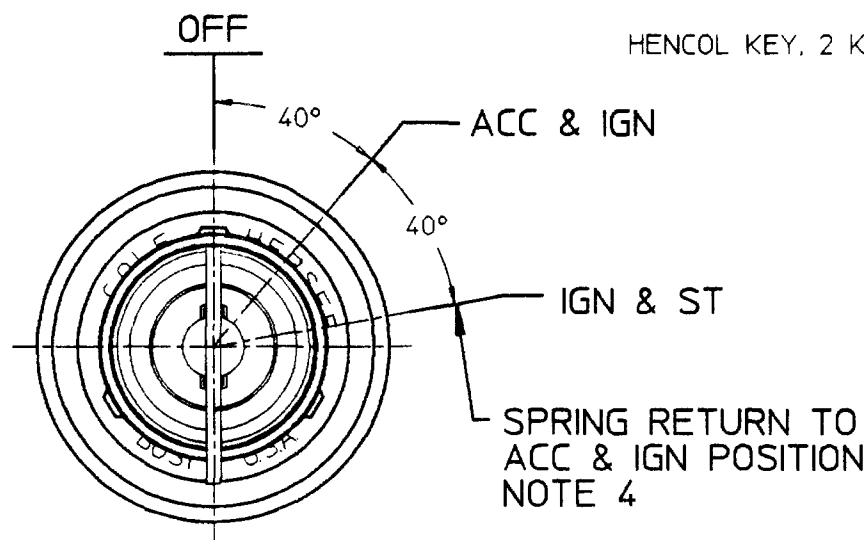
LET	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPRV D	SCALE	956-3125 LESS O-RINGS & GND CIRCUIT	DATE DRAWN
				D	NO ADDED	25039	12/20/92	1/1	PC	1/29/75		1:1		10-26-76
				C	ECN	25189	8/13/72	1/1						
				B	1/25/72	22457	6-5-84	1/1						
				A	HOUSING	813-82	CR							
E	ECN	40137	3/1/00	MA	15 JUL	11216	1/1	TOLERANCES FRACTIONAL ± DECIMAL ±.25					3-POSITION IGN. & START SWITCH	956-3125

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

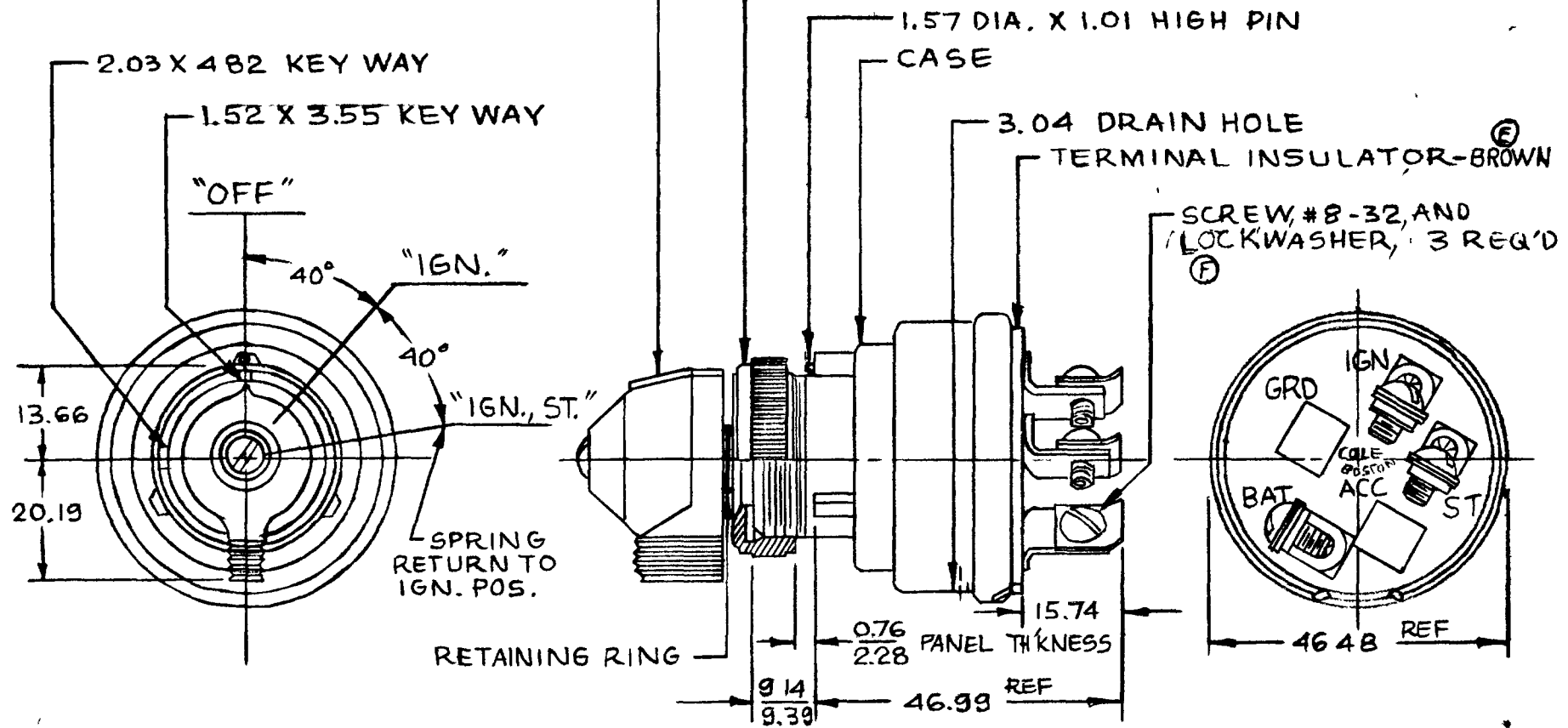
DO NOT SCALE

METRIC

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

APPLICABLE SAE STANDARD OR
RECOMMENDED PRACTICE SAE J259

956-3127



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

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	APPROVED	SCALE	DATE DRAWN
								EA				1:1	1-10-77
								FINISH					
				F	ECN 00140	3/1/00	MA						
				E	ECN 25189	8/1/92	TJH	TOLERANCES					
				D	REDRAWN	10/29/90	BL	DECIMAL ±					
								METRIC ±.25					
3 POSITION IGN. & START SWITCH													956-3127

CH Cole Hersee Co.
25 OLD CO. HWY. VENUE SOUTH BOSTON, MA. U.S.A. 02122

CH-188(4-78)

EX 14258



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.

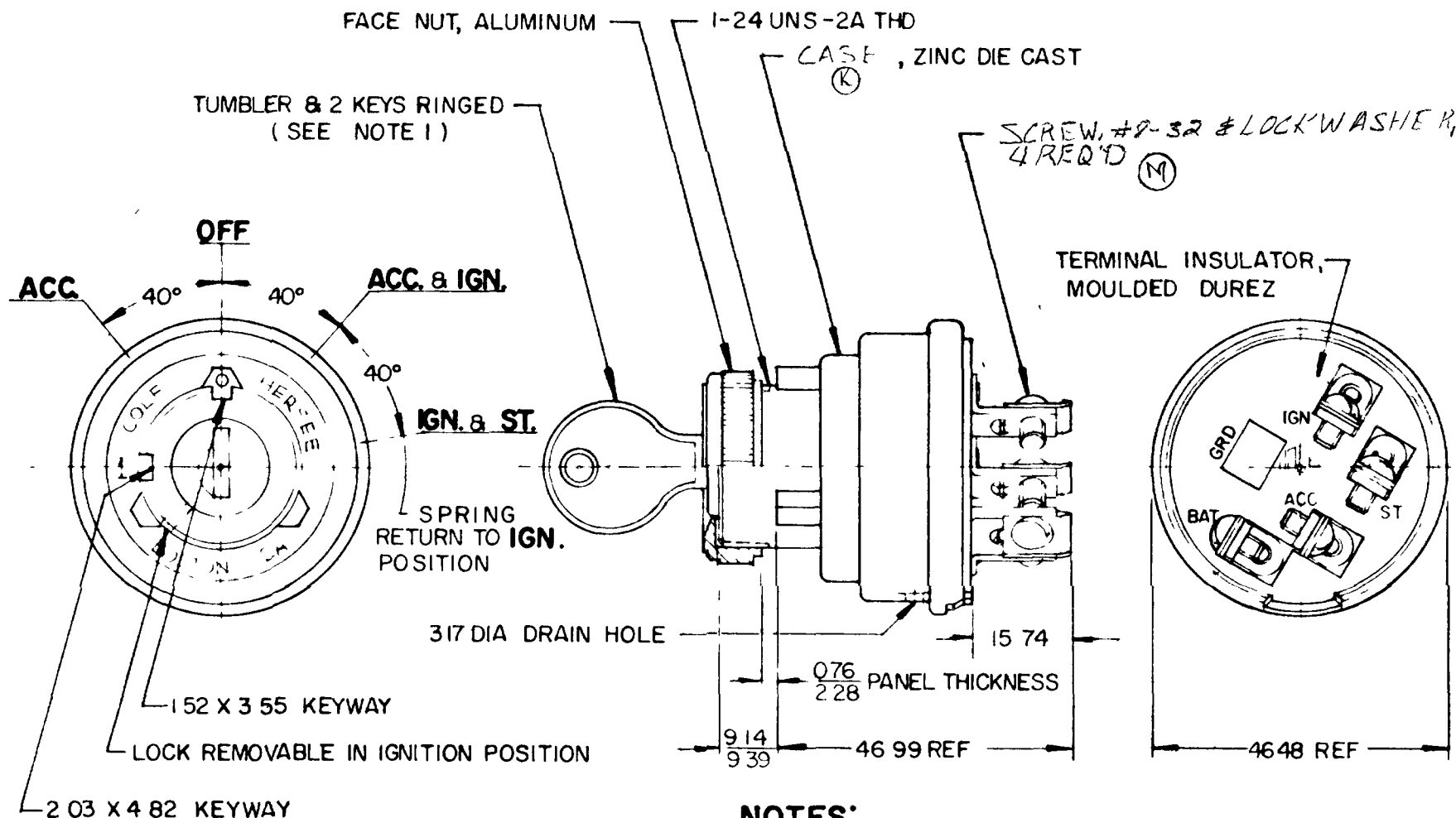
(CH-1004-70)

MM IN
 10
 2.76 0.11
 1.52 0.06
 2.03 0.08
 2.28 0.09
 3.17 0.125
 3.55 0.14
 4.82 0.19
 9.14 0.36
 9.39 0.37
 15.74 0.62
 46.98 1.85
 46.99 1.85

EX-14258

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

956-4104



NOTES:

1 SHUTTER TYPE SEAL ON LOCK FACE

2 ALL STEEL PARTS PLATED

RATINGS AT 12 VDC

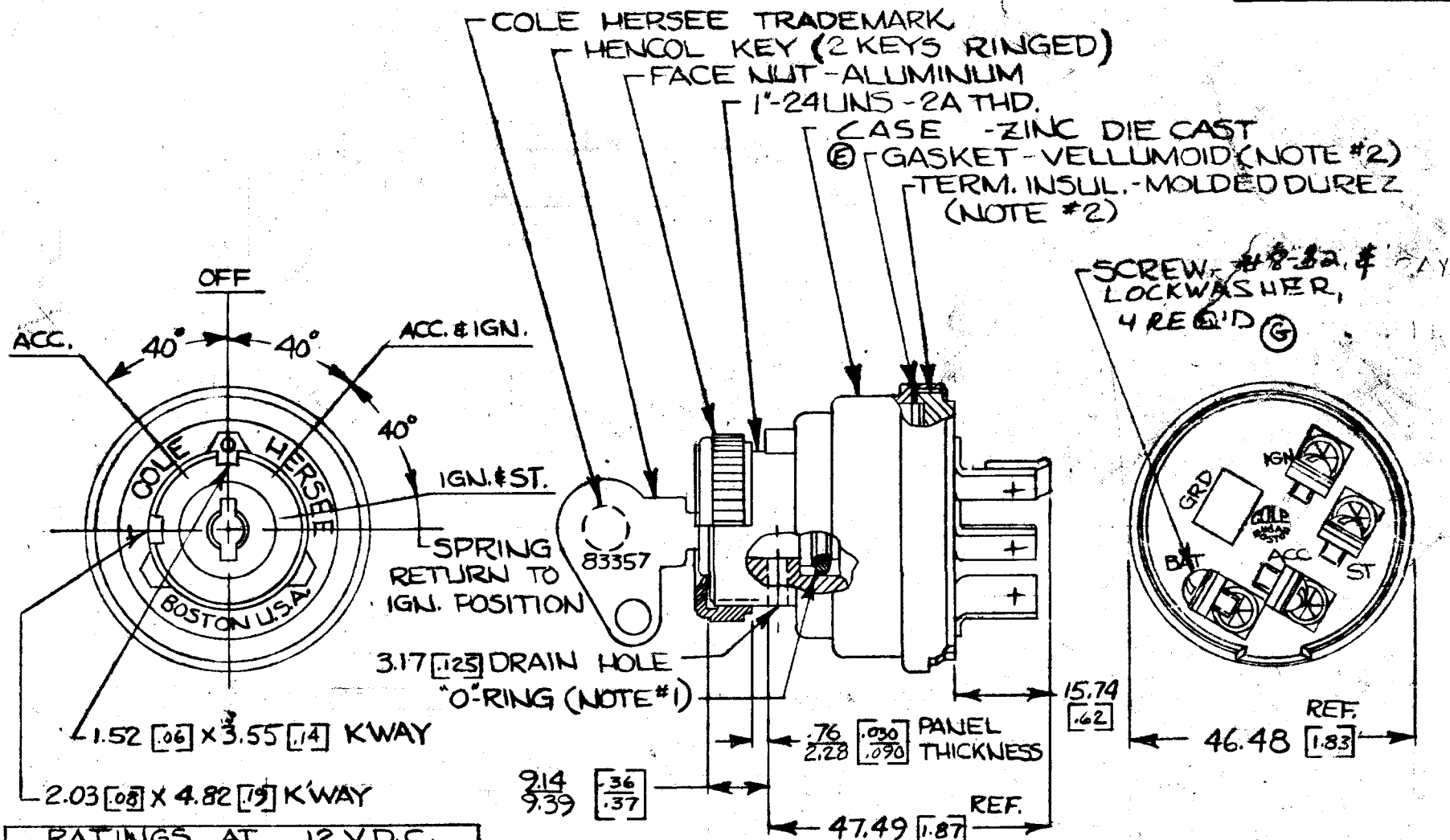
ACC CIRCUIT	10 AMPS
IGN CIRCUIT	10 AMPS
ST CIRCUIT	5 AMPS

METRIC

DO NOT SCALE

LLT	WAS	DATE	BY	LET	WAS	DATE	BY	ATERIAL	DRAWN	HE	REGISTER D	SCALE	DATE DRAWN	
								—H—	MF	1-26-79		11	3-15-66	
				M	ECN 00137	3/1/00	MA	FIP CH	 Cole Hersee Co. 50 DEDUO VEN 1.500 BUS ON W 7					DATE BLUEPRINT
				L	LABOR 25254	12/22/92	JH	—H—						
				K	HOLISING	8/15/87	PS	TOLERANCES	4 - POSITION IGNITION & START SWITCH					956-4104
				J	REDRAWN	1/18/79	JH	FRACTIONAL ± DECIMAL ± .25						

CH 188 (4 78)



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

DIMENSIONS: MILLIMETERS [INCHES]

NOTE:

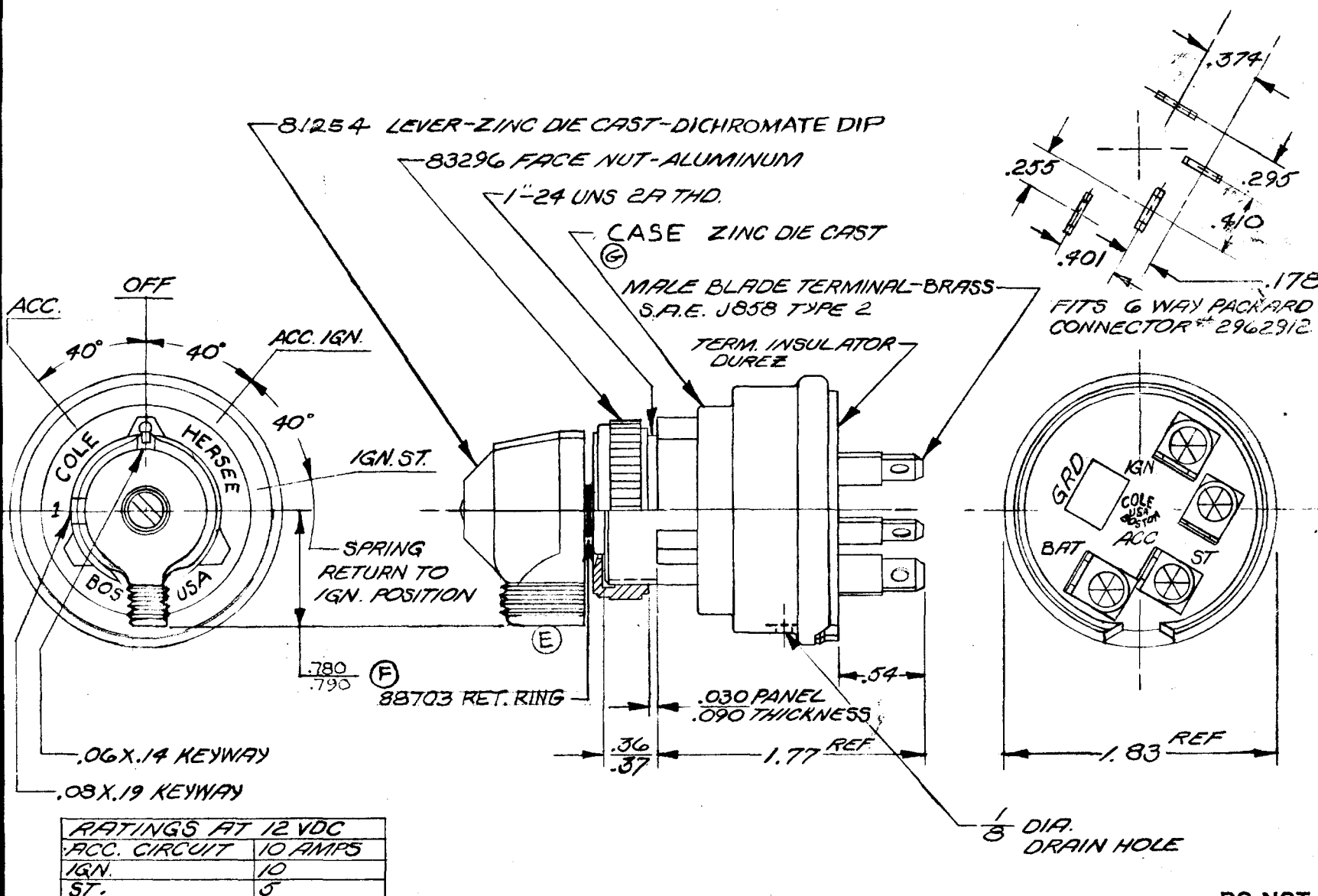
- 1) SHAFT O-RING SEALED TO HOUSING
- 2) TERMINAL INSULATOR (GASKET SEALED)
- 3) ALL STEEL PARTS PLATED

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 00137	3/1/60	AM	FINISH	COLE-HERSEE COMPANY BOSTON, MASS. 02127, U.S.A.				DATE BLUEPRINT
				F	ADDED 125234	12/18/92	TH						
				E	HOUSING	8-13-82	TH	TOLERANCES	4 POSITION IGN. & START SWITCH				956-4107
				D	REDRAWN	2-11-76	TH	FRACTIONAL ± DECIMAL ±.010					

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

956-4/11



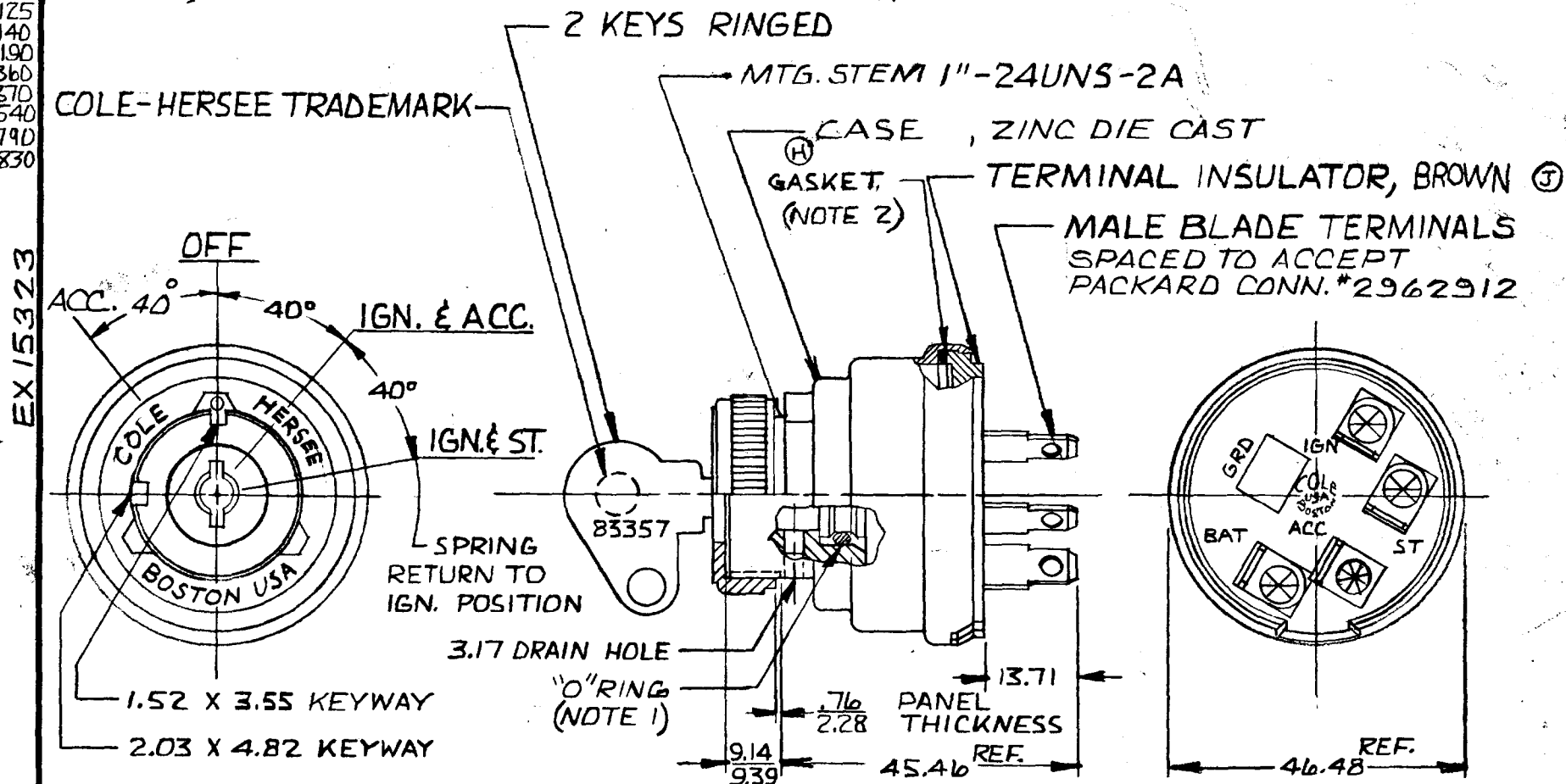
LET	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPR'V'D.	SCALE	DATE DRAWN
				G	HOUSING	8-13-68	CR	///	N.B	UNCL 2-11-68 72		FULL	SCHEM 9, 6-11-68 1-18-68
				F	ADDED RING/20329	10-13-78	R	FINISH	COLE-HERSEE COMPANY				DATE BLUEPRINT
				E	LEVER, 19848	4-6-77	RT	///	BOSTON, MASS. 02127, U.S.A.				
				D	SAE SPEC ADDED	3-5-74	W	TOLERANCES	4 POSITION				956-4/11
				C	REL. DRAWN NO CHANGE	3-21-75	JB	FRACTIONAL ± DECIMAL ±.010	IGN. & START SWITCH				

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

APPLICABLE SAE STANDARD OR
 RECOMMENDED PRACTICE SAE J 259

956-4113



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'D.	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	P3	TOLERANCES					
				G	REDRAWN NO CHANGE	2-26-81	EA	DECIMAL ± METRIC ±.25					
									 20 OLD COLONY AVENUE, SOUTH BOSTON, MA. U.S.A. 02127				DATE DRAWN
									4 POSITION IGN. & START SWITCH				DATE BLUEPRINT
													956-4113

CH-188(4-78)

COLE-HERSEE CO.

NPM 9-27-71

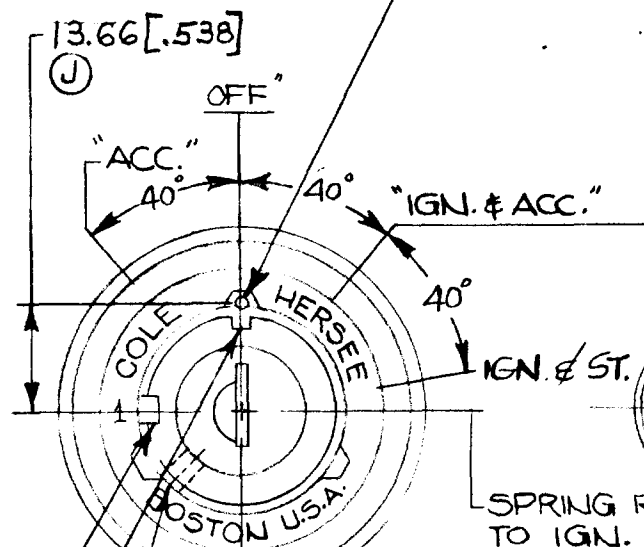
EX 16009 E

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

956-4116

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

①



1.52 [.06] x 3.55 [.14] K'WAY
2.03 [.08] x 4.82 [.19] K'WAY

PERMANENTLY MARK
SWITCH NO. & DATE CODE
ON SIDE OF CASE

TUMBLER #2 KEYS-RINGED

FACE NUT-ALUMINUM

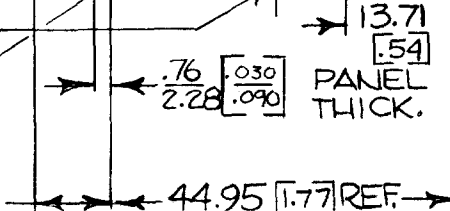
1-24 UNS-2A THD.

CASE - ZINC DIE CAST
TERM. INSULATOR -
BROWN ④

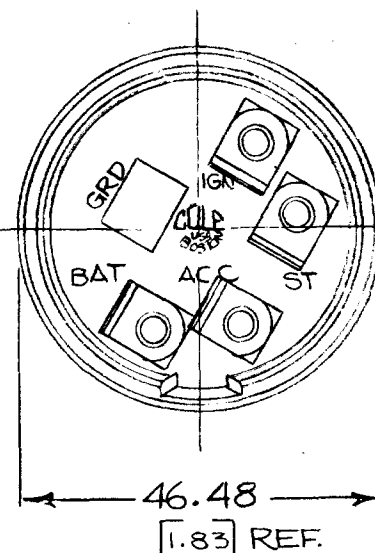
MALE BLADE TERMS-BRS.
SAE J858 TYPE 2 SPACED
TO ACCEPT PACKARD ELEC.
CONN. NO. 962912

3.17 [.125]
DR. HOLE

9.14 [.36]
9.39 [.37]



13.71 [.54]
PANEL THICK.



- 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	TJH	FINISH						DATE BLUEPRINT
				J	REVISEL/2245	6/6/84	YAK							
				H	HOUSING	8-13-88	DP							
				G	REDRAWN	7-21-75	JWH	TOLERANCES FRACTIONAL ± DECIMAL ±.010						
COLE-HERSEE COMPANY BOSTON, MASS. 02127, U.S.A.														
4 POSITION IGNITION & START SWITCH														956-4116

SPAULDING CO., INC. 21-55259

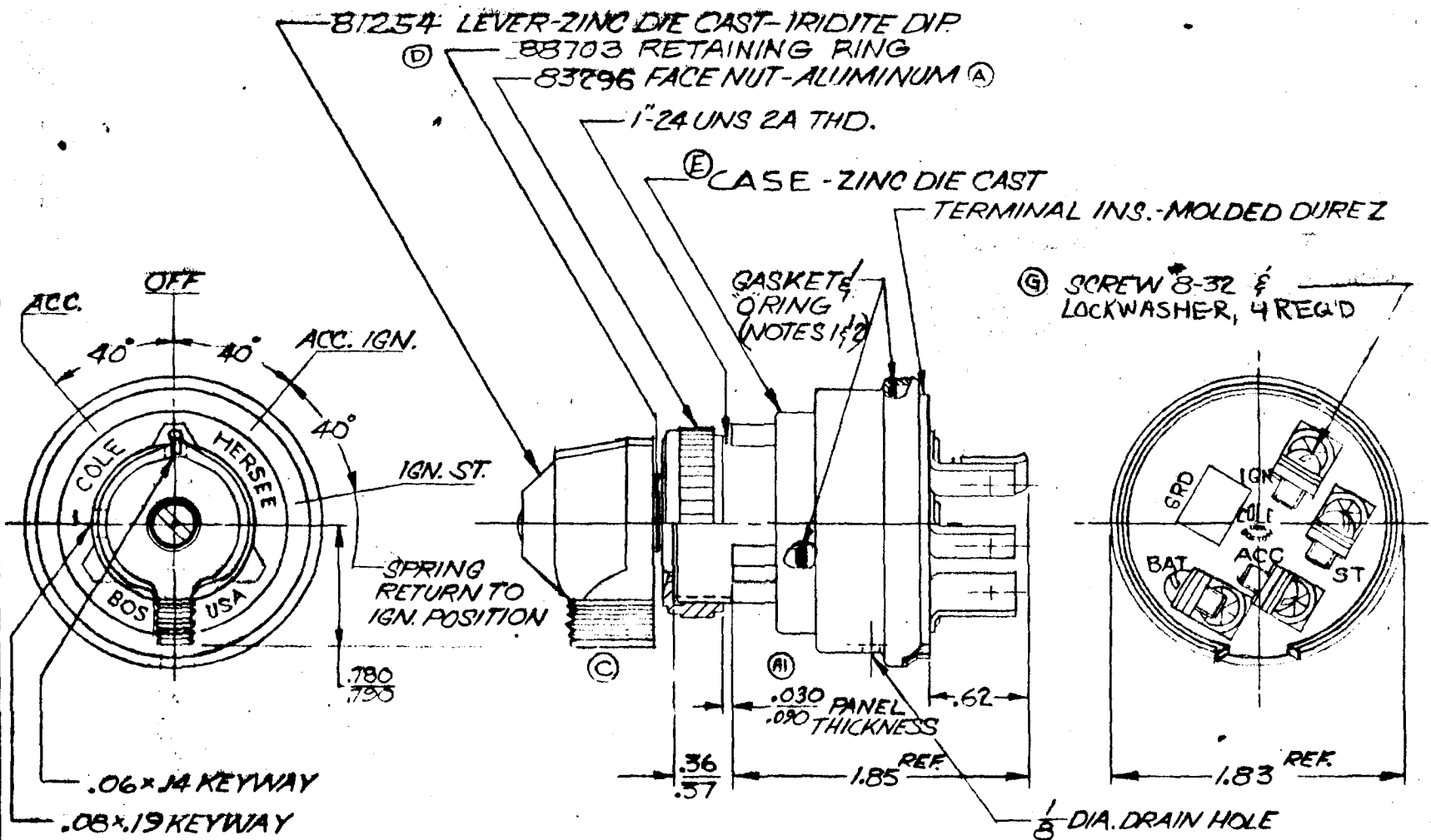
Confidential Property of Cole Hersee

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAEJ259

956-4124

NPM 1-10-72

EX NONE



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

NOTES:

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

DO NOT SCALE

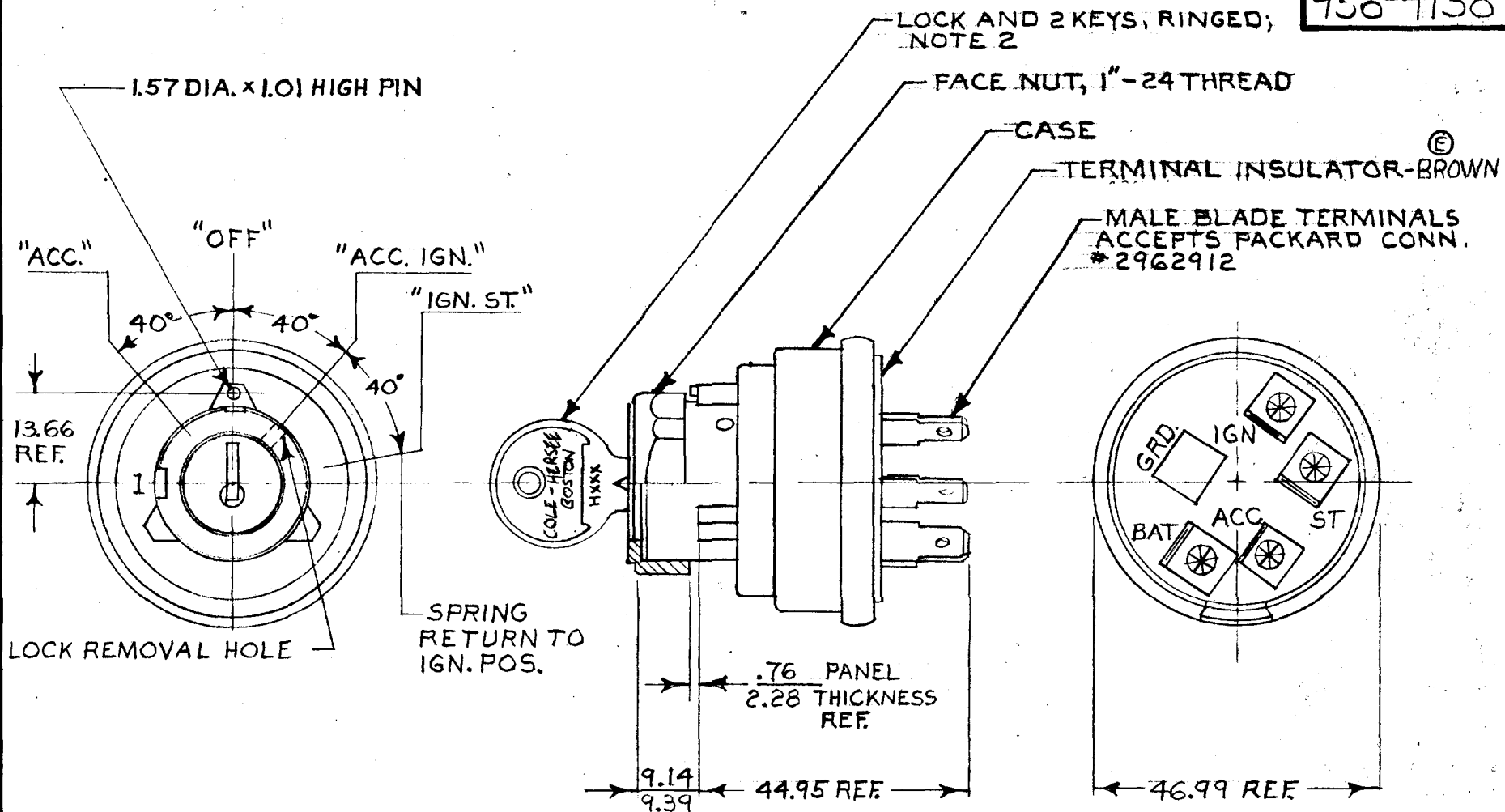
LET	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPR'D	SCALE	Blk. 956 4111	DATE DRAWN
				C	81254 LEVER	19043	4-6-77	RMT	CT	REC		FULL		1-12-72
G	ECN #00132	3/1/00	KE	B	SAE SPEC ADDED	3-5-74	3	W	COLE-HERSEE COMPANY BOSTON, MASS. 02127, U.S.A.					DATE BLUEPRINT
F	NOT ADDED 125234	12/22/92	HA	A	.060/.110	17877	10-19-72	LY						
E	HOUSING	8-6-86	P	A	83344	17877	10-4-72	B	4 POSITION IGN. & START SWITCH					956-4124
D	ADDED 20329	10-18-78	R		ISSUE	1-14-77								

SPAULDING CO., INC.

MM 1N
 .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[®] 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
								<i>rk</i>	KG	<i>rk</i>		1:1	2-5-76
				G	ECN# 27087	10/21/97	AJS	FINISH					DATE BLUEPRINT
				F	ECN # 26335	10/17/96	Jmp	<i>rk</i>					
				E	ECN 25189	8-14-92	TJH	TOLERANCES					
				L	REDRAWN	8-15-84	VK	DECIMAL ±					
								METRIC ±					
									 26 OLD COLONY AVENUE, SOUTH BOSTON, MA, U.S.A. 02107				
									SWITCH IGNITION & START 4 POS.				956-4138

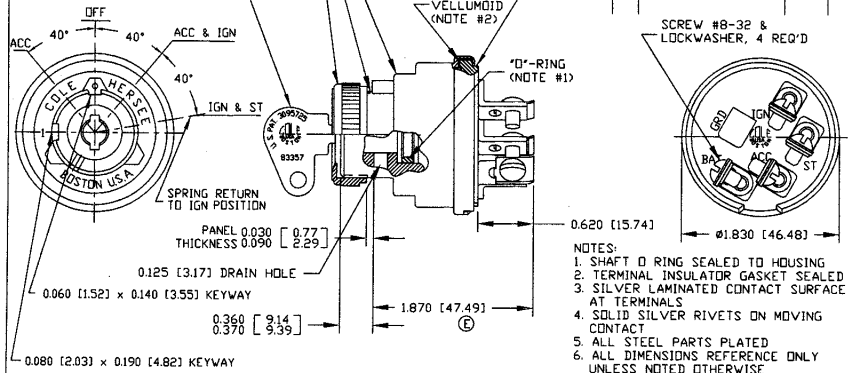
CH-188(4-78)

RATING AT 12 V.D.C.

ACC CIRCUIT	20 AMPS
IGN. CIRCUIT	20 AMPS
ST. CIRCUIT	20 AMPS

Revision Control Record

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



0.620 [15.74]

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

Tolerances: Unless otherwise specifically noted, the following are default tolerances:
 * 2-place Decimal Dimensions: ±.02"
 * 3-place Decimal Dimensions: ±.005"
 * Angular Dimensions: ±1.5 Deg.
 * Metric: Refer to equivalent English Dimension Tolerance
 *** NOTE: All tolerances are Non-Cumulative. ***

Interpret this: All dimensions are expressed in inches except those shown in brackets (mm) are expressed in millimeters

"NPT" or an Arched "P" = Non-Toleranced Reference Dimension, shown for identification purposes only.

Used On: **TERM INSUL & SILVER CONTACTS**

Scale: **1:1**

Drawn By: **VK**

Date: **9/5/78**

Responsible Engineer: **N/A**

Page: **1 of 1**

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 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 ensure 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.

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 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
 Phone: 617-288-2100 Web: www.colehersee.com

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

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

Current Rev.: **E**

MM N

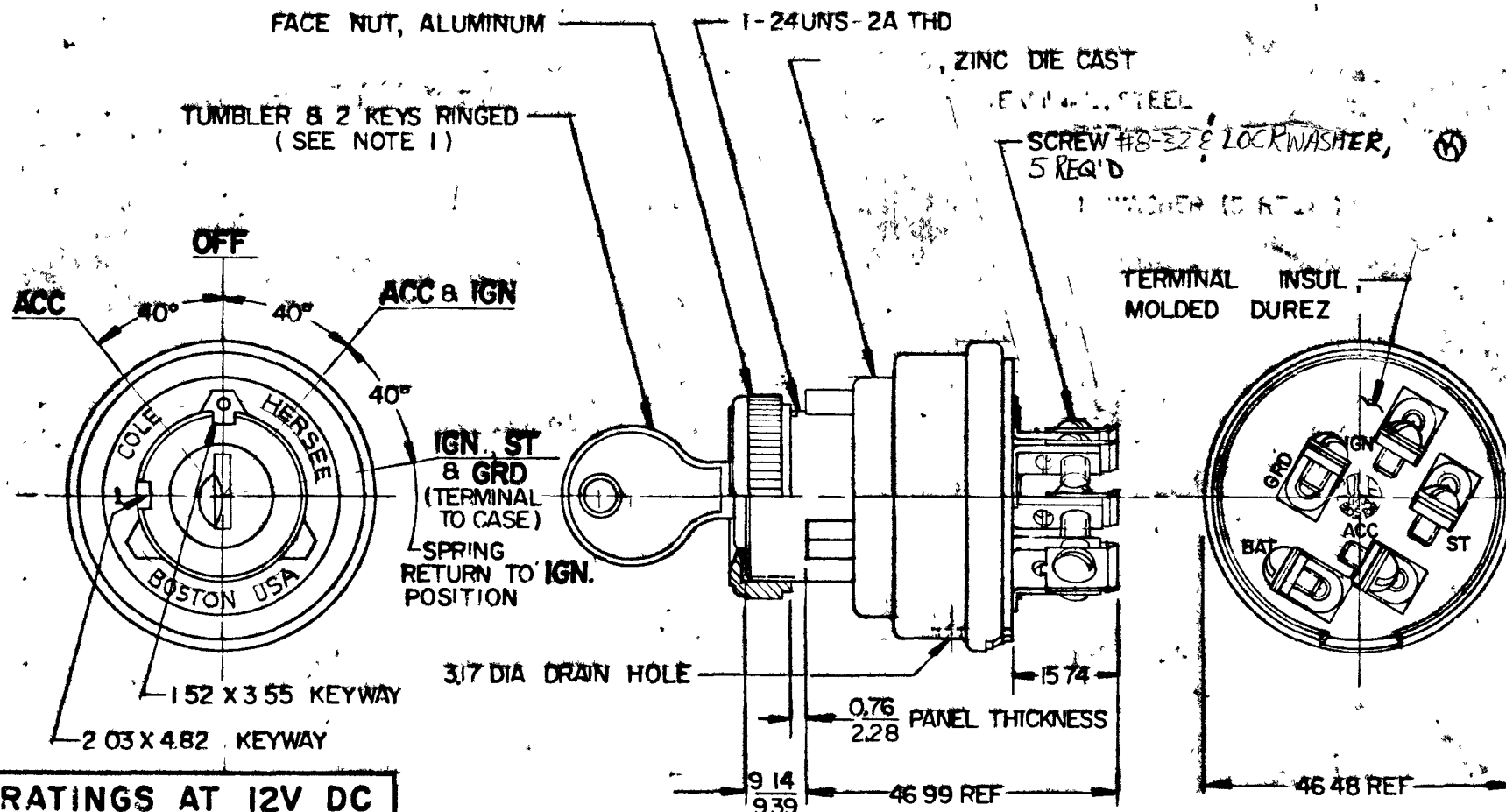
0.25 .00
0.76 .030
1.52 .060
2.03 .080
2.28 .090
3.17 .125
3.55 .140
4.82 .190
9.14 .360
9.99 .370
15.74 .620
46.48 1.830
46.99 1.850

COLE-HERSEE CO.

EX-14258

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 ZINC PLATE

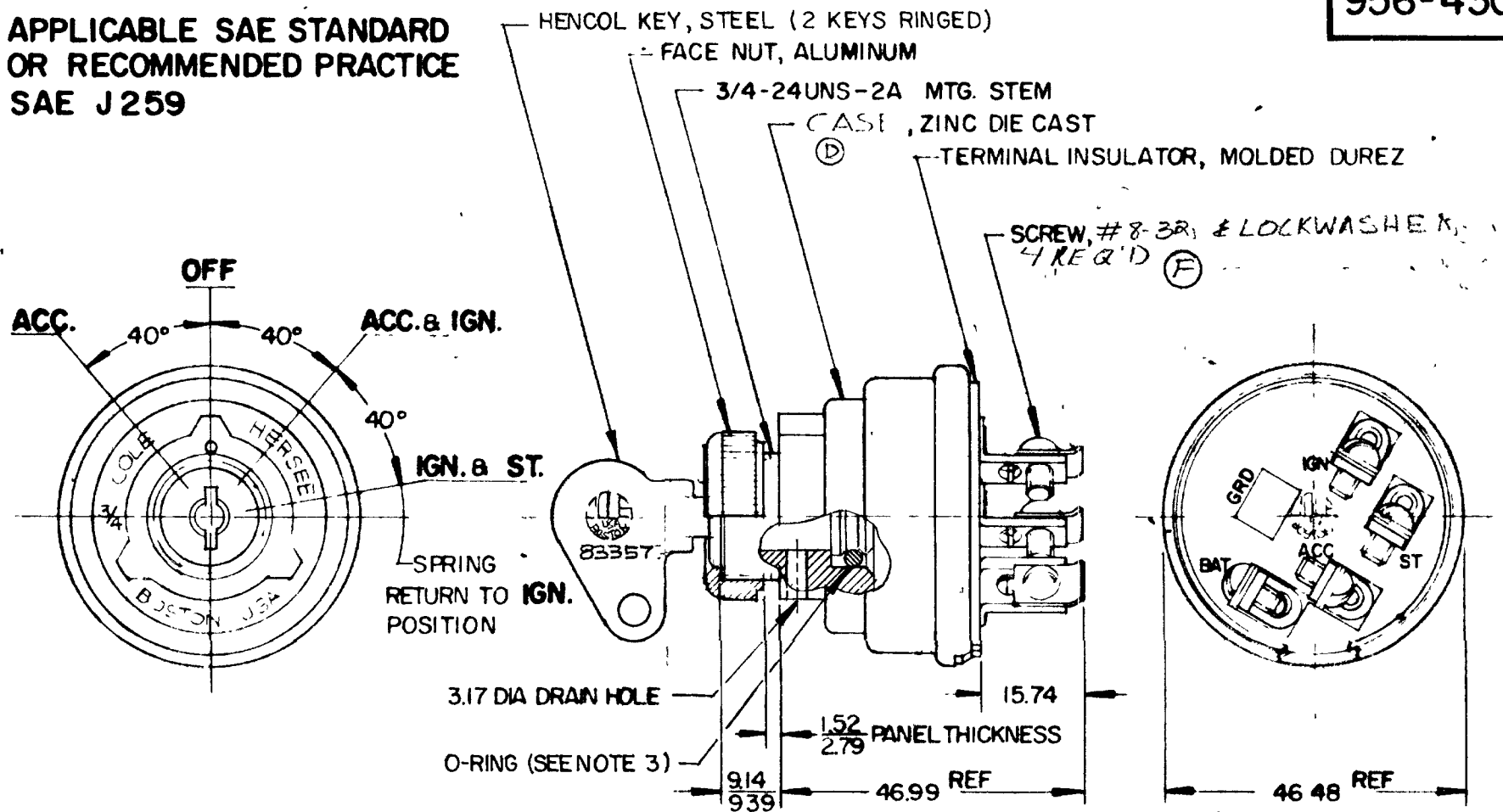
DO NOT SCALE

LET	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPROVED	SCALE	DATE DRAWN
								—H—	C F	4/3/78		FULL	2-23-67
								FINISH					DATE BLUEPRINT
				K	ECN #00142	3/1/00	KF						
				J	CAUTION ZINC 12/22/92	12/22/92	JH						
				H	REDRAWN	3-9-78	UV	TOLERANCES FRACTIONAL ± DECIMAL ±0.25					
COLE-HERSEE COMPANY BOSTON, MASS 02127, U.S.A.													DATE BLUEPRINT
4-POSITION IGNITION & START SWITCH													956-4154

MM	IN
0.25	0.010
1.27	0.050
2.79	0.110
3.17	0.125
9.14	0.360
9.39	0.370
15.74	0.620
46.48	1.830
46.99	1.850

APPLICABLE SAE STANDARD
OR RECOMMENDED PRACTICE
SAE J259

956-4307



NOTES:

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

RATINGS AT 12 V.D.C.

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

METRIC

DO NOT SCALE

LET	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	APPROVED	SCALE	DATE DRAWN
								—H—	CF	5-1-79	11	12 - 12 - 66
				F	ECN 00137	3/1/00	HA	FINISH				DATE BLUEPRINT
				I	QAD OR ZINC / 25234	10/18/92	111	—H—				
				D	HOUSING	8-16-82	PS	TOLERANCES				
				C	REDRAWN	5-21-79	JV	DECIMAL ± .010				
								METRIC ± .25				

CH Cole Hersee Co.

4- POSITION
IGNITION & START SWITCH

956-4307

CH 188(4 78)

EX 20121

956-4311



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

METRIC

DO NOT SCALE

Confidential Property of Cole Hersee

956-5109

FACE NUT, ALUMINUM

-I-24UNS-2A MTG. STEM

LEVER, ZINC DIE CAST, CHROME PLT.

- HOUSING, ZINC DIE CAST

MARK PART NO. & DATE CODE AT RANDOM (N)

(H)
= 1.57 DIA. x 1.01 HIGH PIN

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

TERMINAL INSULATOR
BROWN®

L SPRING
 RETURN TO IGN.
 POSITION

3.17 DIA DRAIN HOLE

$\frac{0.76}{2.28}$ PANEL THICKNESS

9.14
9.39 46.99 REF

1.52 X 3.55 KEYWAY

- 2.03 X 4.82 KEYWAY

NOTE:

1. TERMINAL INSULATOR GASKET SEALED
2. SHOULDER TYPE RIVET CONSTRUCTION
3. SILVER LAMINATED CONTACT SURFACES

④ 4. ALL STEEL PARTS PLATED

METRIC

Confidential Property of Cole Hersee

DO NOT SCALE

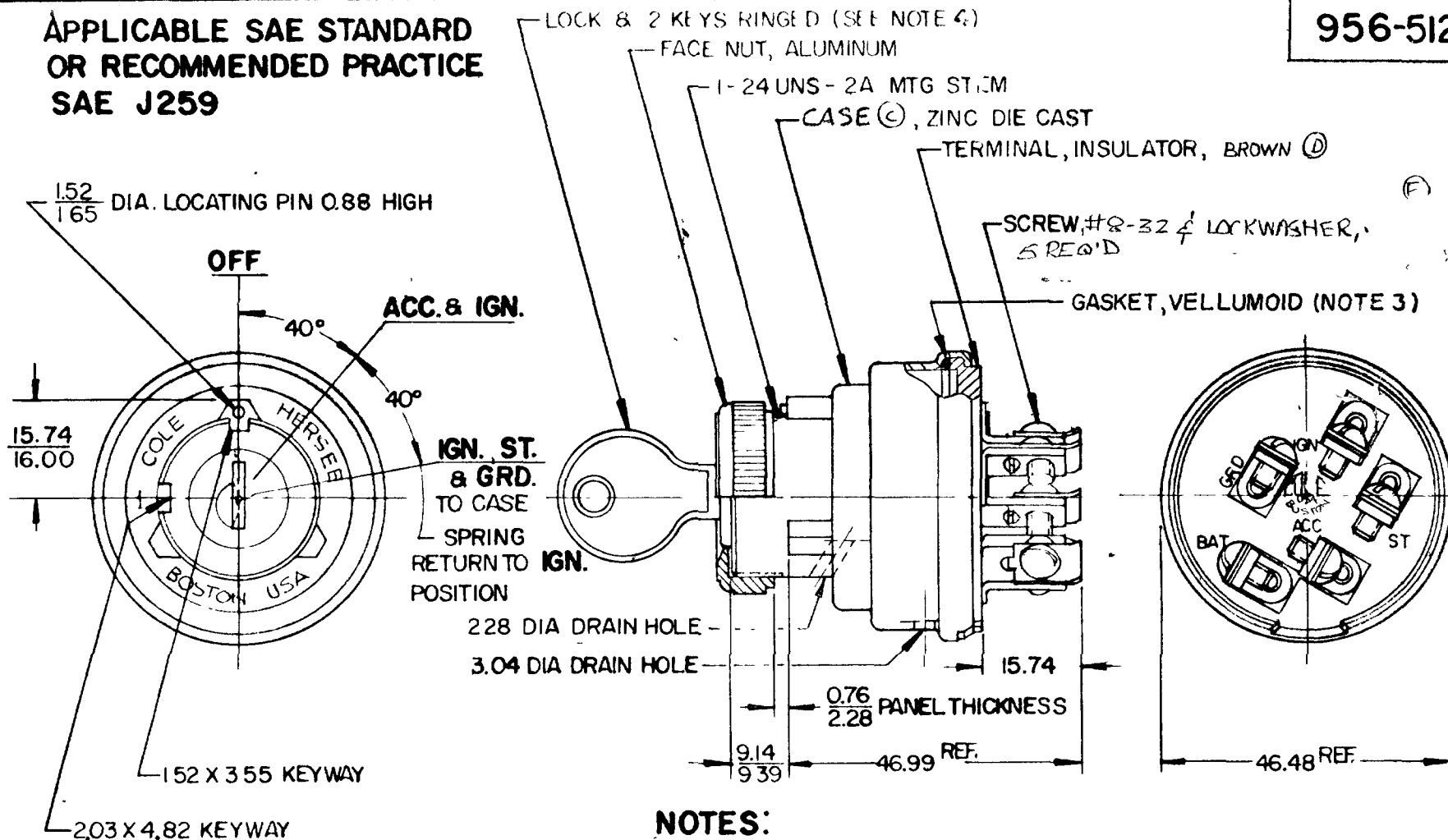
LET	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPROVED	SCALE		DATE DRAWN
				L	SAD CR ZINC 28034	1/2/29/72	JH	#	RW	1-30-79		1:1	HHS EXCEPT 3-PQS & W SCREW TERM. & LEVER	9-16-71
				K	EEN 25189	8/13/72	JH	FINISH						DATE BLUEPRINT
				J	DELITE NOTE / 23263	9-30-86	ZU	#						
N	EEN 000422	6/6/00	MH	G	REVISED 22457	6/6/04	AK	TOLERANCES FRACTIONAL ± .25 DECIMAL ± .01						
M	EEN 00137	3/1/00	MH	G	BEDRAWN	1-19-79	AK	3 - POSITION IGNITION & START SWITCH						956-5109

MIM IN
 0.25 0.01
 0.41 0.02
 0.88 0.035
 1.52 0.05
 1.65 0.06
 2.75 0.10
 2.28 0.09
 3.04 0.12
 3.55 0.14
 4.82 0.19
 9.14 0.36
 9.39 0.37
 15.74 0.62
 16.00 0.63
 46.48 1.83
 46.99 1.85

NPM 4-14-75

**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	APPROVED	SCALE	BASC 956-5108 EXCEPT, COPPER CON ORING DRAIN, GRD. CRK T	DATE DRAWN 1 - 7 - 75
				F	IGN# 00142	3/1/00	KF	—	JWH	1-30-79		11		
				E	CRSND ZINC	12/28/90	JH	FINISH						
				D	ECN 25184	8-13-92	JH	—						
				C	HOLISING	8-17-82	JK	TOLERANCES						
				B	REDRAWN	1-19-79	VK	FRACTIONAL ± DECIMAL ± .25						
3 - POSITION IGNITION & START SWITCH														956-5122

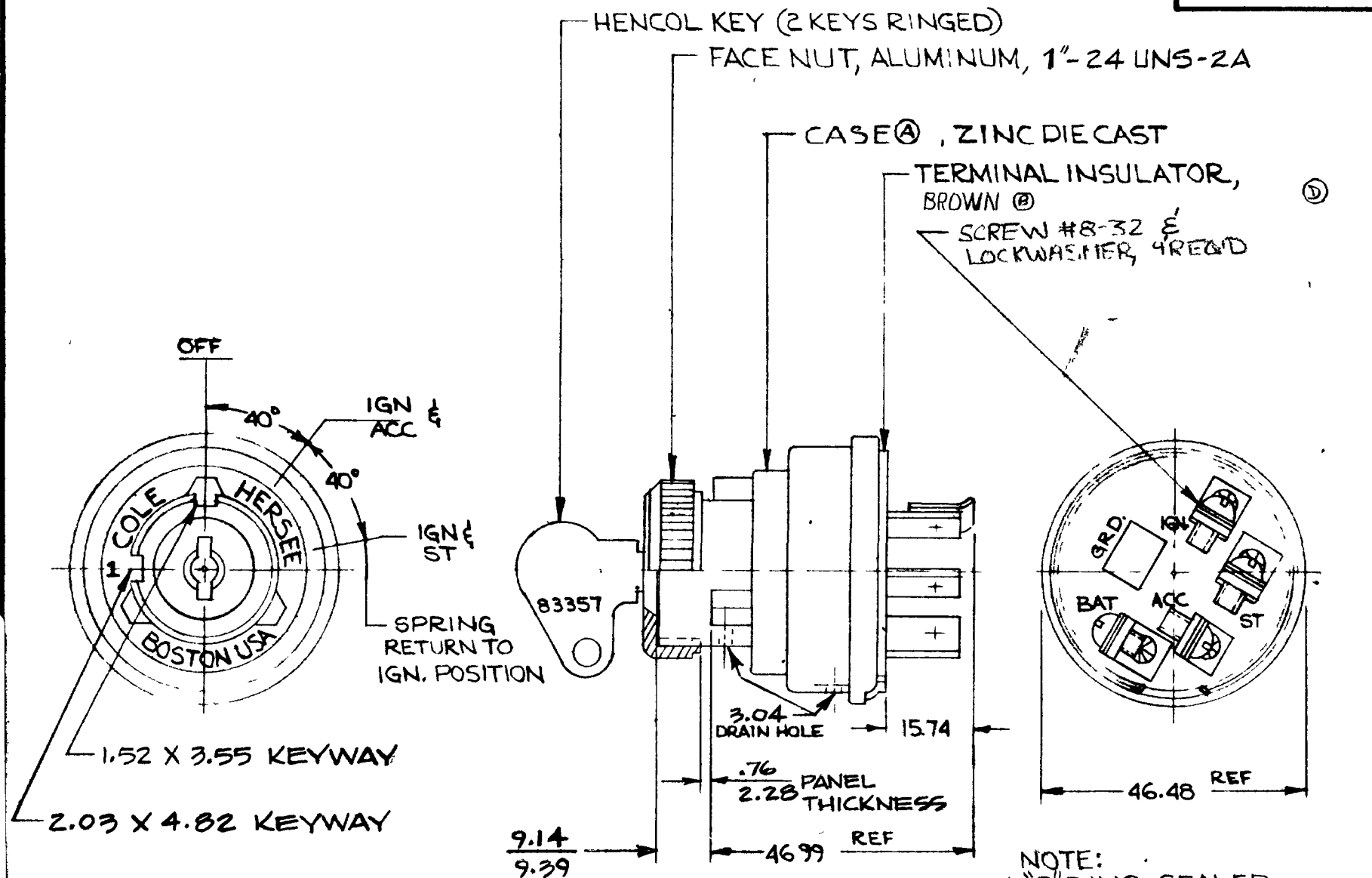
CH 189 (A 78)

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

COLE-HERSEE CO.
 N.P.M.

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

956-5124



METRIC

NOTE:
 1. O-RING SEALED.

© 2. ALL STEEL PARTS PLATED DO NOT SCALE

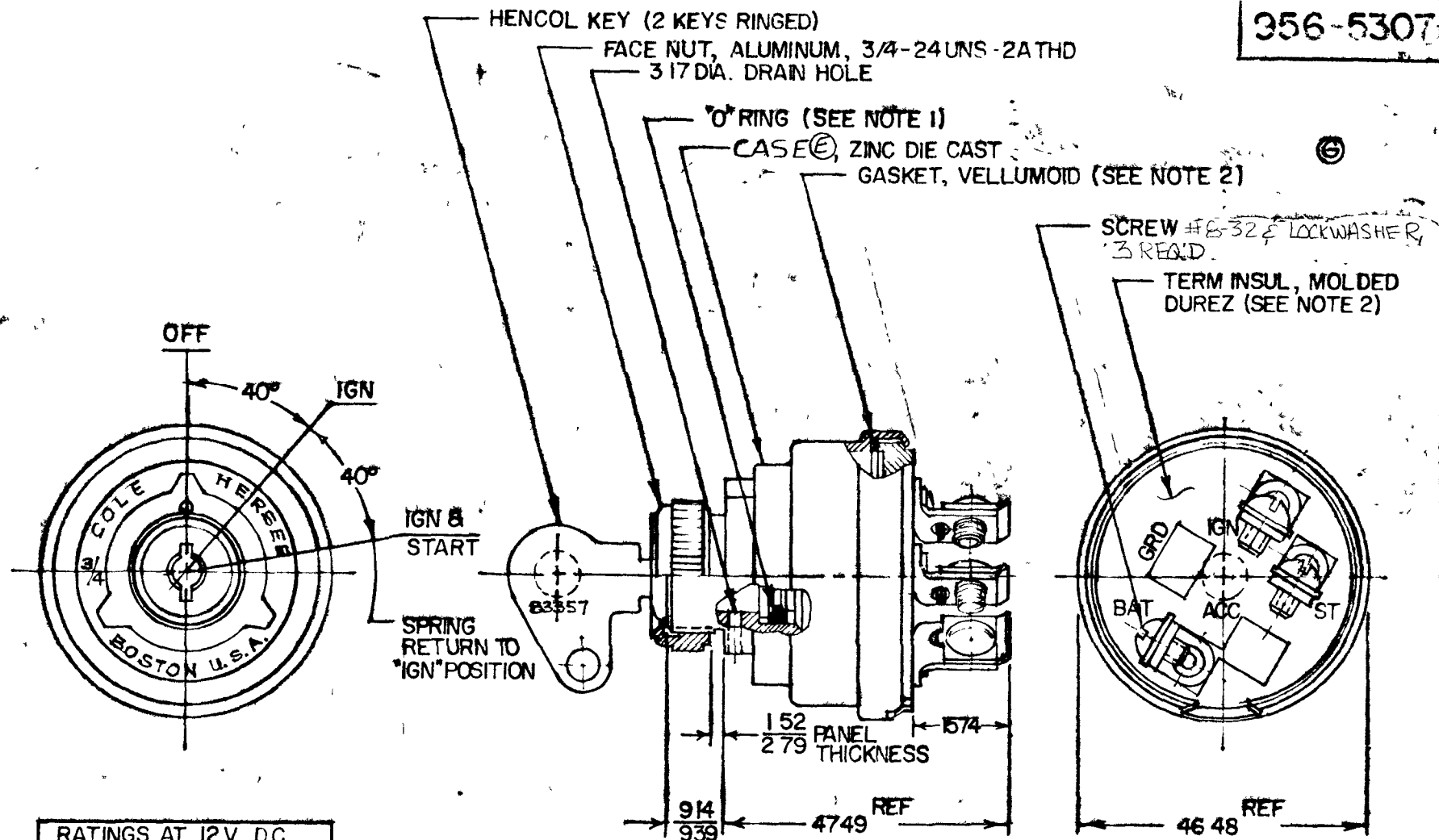
LET	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPR'D	SCALE	BASIC 956-5115 EXCEPT O-RING SEALED	DATE DRAWN
				D	ECN#00138	3/11/75	KF	—//—	KG	11-5-75		FULL		11-4-75
				C	ADDED/05039	12/23/72	LH	FINISH						
				B	ECN 25189	8-19-92	JH	—//—						
				A	HOUSING	8-17-82	PS	TOLERANCES						
					ISSUED	3-3-77	Y	FRACTIONAL ±						
								DECIMAL ±.25						
COLE-HERSEE COMPANY BOSTON, MASS. 02127, U.S.A.														DATE BLUEPRINT
IGN. START SWITCH														956-5124

MM

IN

.010
 .020
 .030
 .040
 .050
 .060
 .070
 .080
 .090
 .100
 .110
 .120
 .130
 .140
 .150

TSE 1034



RATINGS AT 12V DC

IGN CIRCUIT	10 AMPS
START	5

METRIC

NOTE

1. SHAFT O-RING SEALED TO CASE
2. TERM INSUL GASKET SEALED
3. ALL STEEL PARTS PLATED
4. APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

DO NOT SCALE

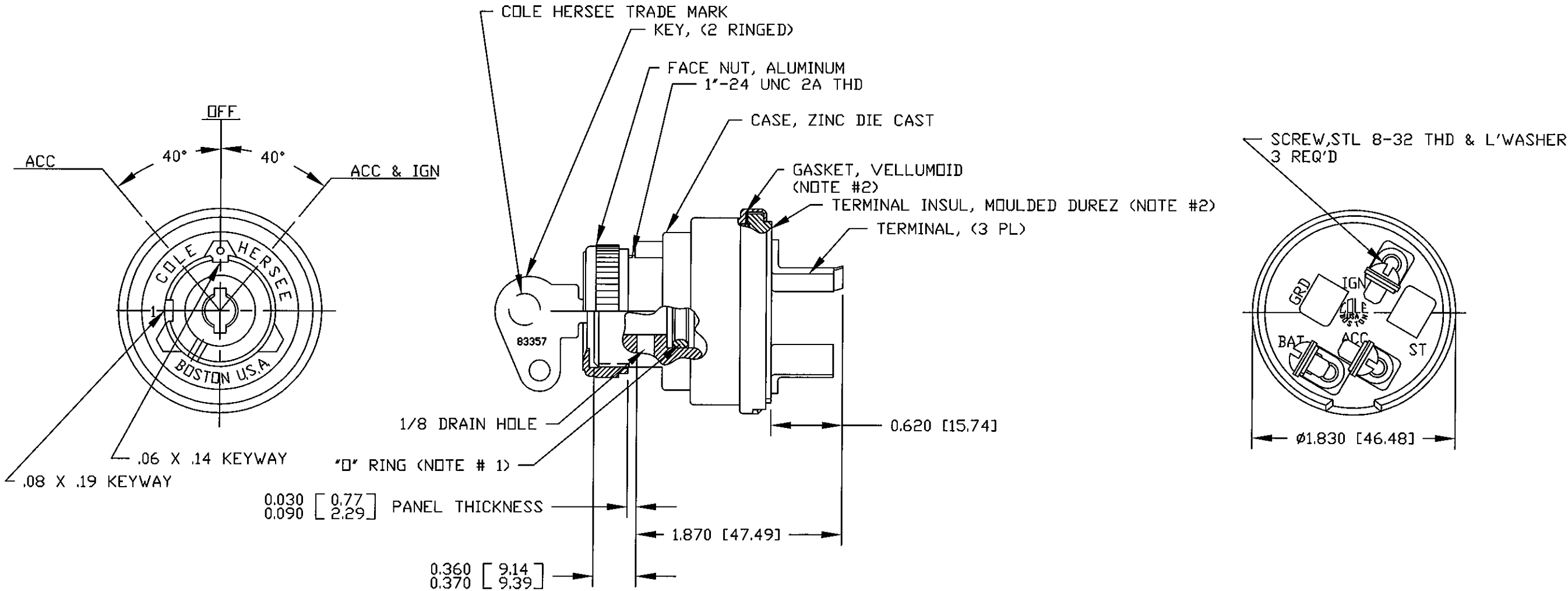
LET	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPRV D	SCALE	DATE DRAWN
									CF	11-20-78		1:1	1-10-66
				G	LEN # 60139	3/1/00	KF	FINISH					DATE BLUEPRINT
				F	CADU Y 125239	12/18/92	14						
				E	HOUSING	8-17-82	13	TOLERANCES					
				D	REDRAWN	11-8-78	R	FRACTIONAL ±					
								DECIMAL ± .25					

Cole Hersee Co.
 30 OLD COLONY AVENUE SOUTH BOSTON MA U.S.A. 02127

3 POS IGNITION & START SW 956-5307

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**

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.

Drawn By: **CF**

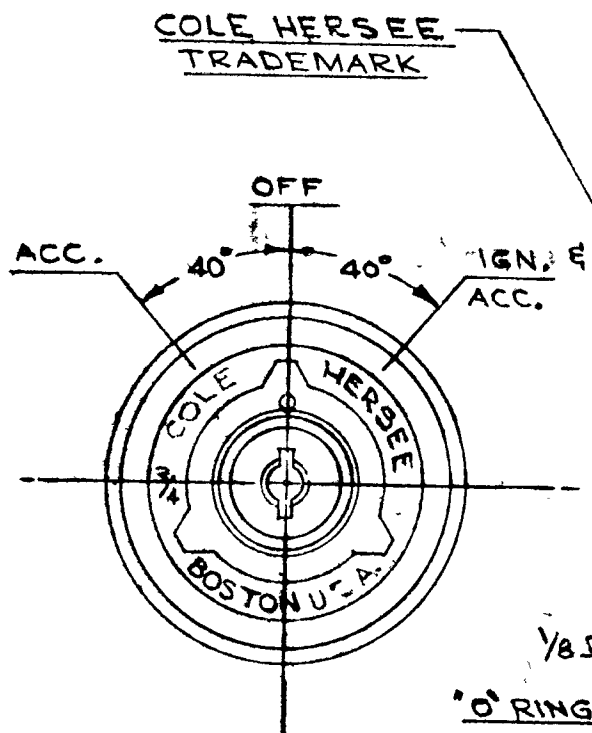
Date Drawn: **10/06/66**

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.)	
Responsible Engineer:	Pg. 1 of 1

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	J

COLE-HERSEE CO.

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259



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

* 83357 HENCOL KEY (2 KEYS RINGED)

956-6307

* 83348 FACE NUT, ALUMINUM

3/4-24 UNS 2A THD.

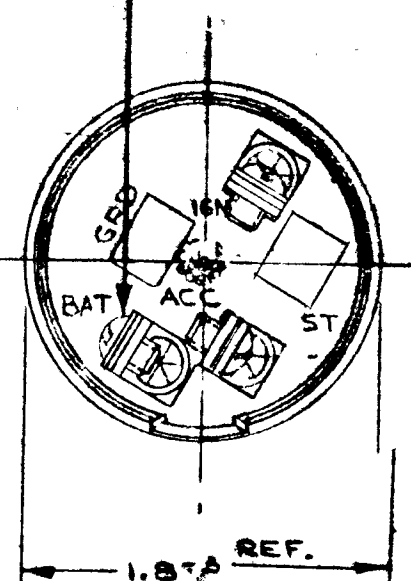
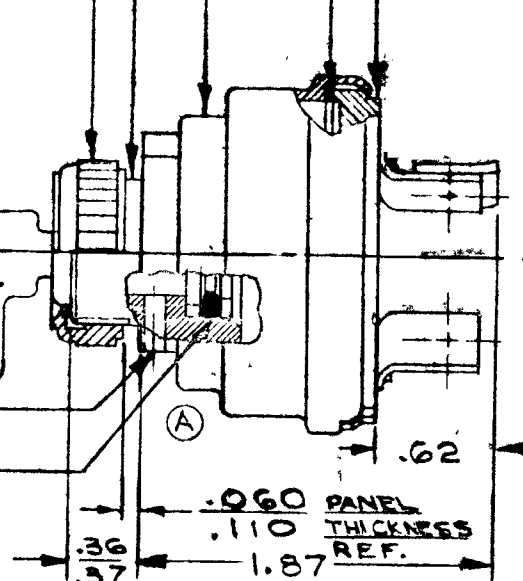
CASE (3), ZINC DIE CAST

GASKET, VELLUMOID (NOTE * 2)

TERMINAL INSULATOR MOLDED DUREZ (NOTE * 2)

LOCKWASHER, 3 REQ'D

1/8 DRAIN HOLE
O RING (NOTE * 1)



NOTE:

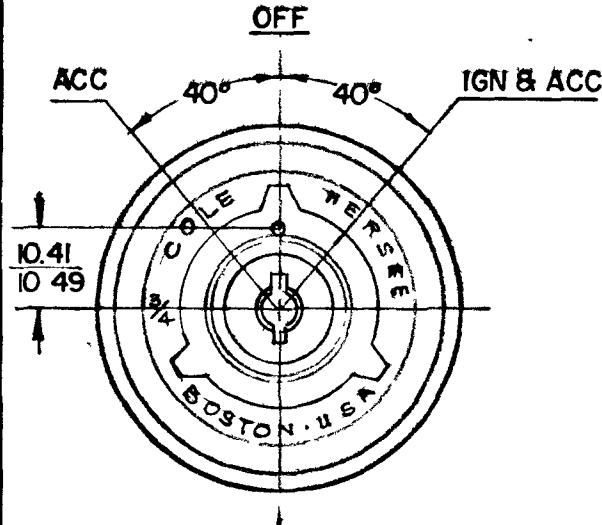
1. SHAFT "O" RING SEALED TO CASE
2. TERMINAL INSULATOR GASKET SEALED
- 3 ALL STEEL PARTS PLATED

REV	WAS	DATE	BY	REV	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPROVED	SCALE	USED ON	DATE DRAWD
				D	ECN COPY	3/2/88	MA		CF	UM		FULL		1-31-67
				C	NOTE 3 ADDED	12/18/92	JK							
				B	HOUSING	8-17-82	JK							
				A	SPEC ADDED	3-4-74	W							
					ISSUED	3-9-67	HF							
									COLE-HERSEE COMPANY BOSTON 27, MASS., U.S.A.					DATE DRAWD
									ACC-IGNITION SWITCH					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
10.49	.413

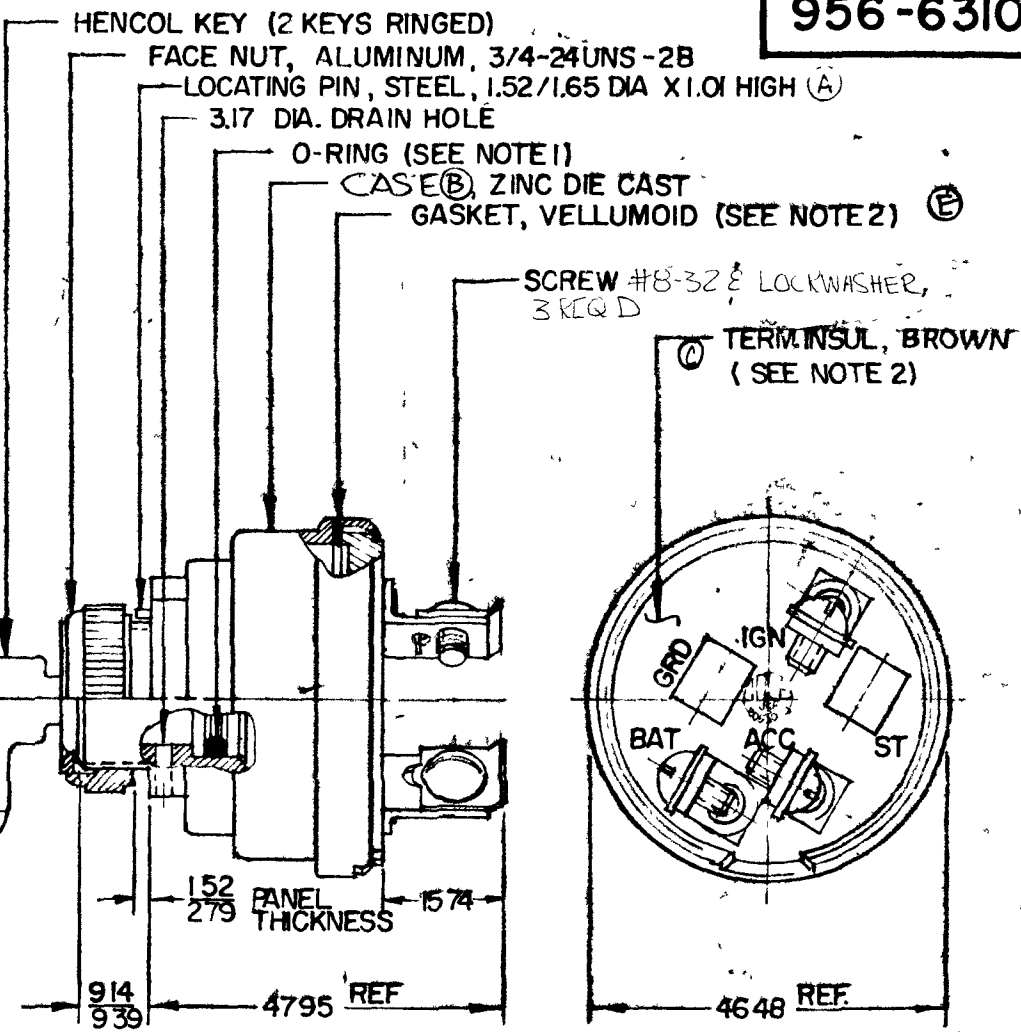
SEQ	DEPT.	OPERATING INSTRUCTIONS	DIE	MACH



RATINGS AT 12 V D C	
ACC. CIRCUIT	30 AMPS
IGN.	10

APPLICABLE SAE STANDARDS OR RECOMMENDED PRACTICE SAE J259

METRIC



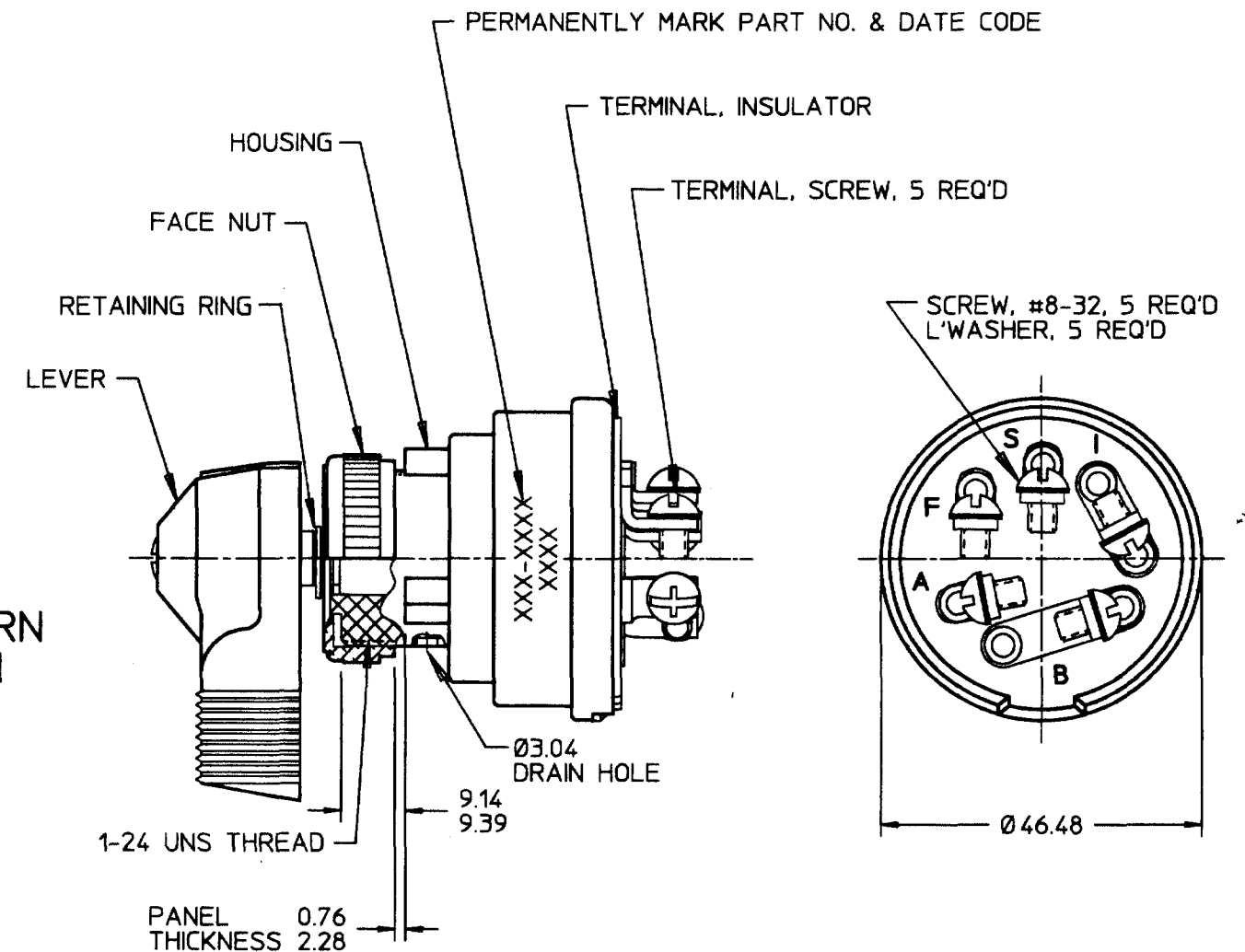
- NOTE:
1. SHAFT O-RING SEALED TO CASE
 2. TERM INSUL GASKET SEALED
 3. COPPER RIVETS ON MOVABLE CONTACT
 4. ALL STEEL PARTS PLATED

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 3-12-79
				C	ECN 25189	8-14-92	TJH	FINISH						DATE BLUEPRINT
				B	HOUSING	8-11-82	PB							
				A	REV 20702	9-12-79	JV	TOLERANCES						
E	ECN #00139	3/1/00	HF		15501.12	6-1-79	Y	FRACTIONAL ±						
								DECIMAL ±.25						

SPAULDING CO., INC

COLE-HERSEE COMPANY
BOSTON, MASS 02127, U.S.A.

ACC - IGNITION SWITCH 956-6310



- DO NOT SCALE

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

METRIC

LET.	WAS	DATE	BY	LET.	WAS	DATE	BY	MATERIAL	DRAWN	CHK	APVD	SCALE	DATE DRAWN
								N/A	JMP		N/A	1:1	EX26789
								FINISH		Cole Hersee Co. 20 OLD COLONY AVENUE, BOSTON, MA., U.S.A., 02127			DATE BLUEPRINTED
								N/A					
								TOLERANCES	SW, IGN & START, 4 POS			956-9109	
								DECIMAL ± N/A					
				A	ECN 00521	06/28/00	DPS	ANGLE ± N/A					