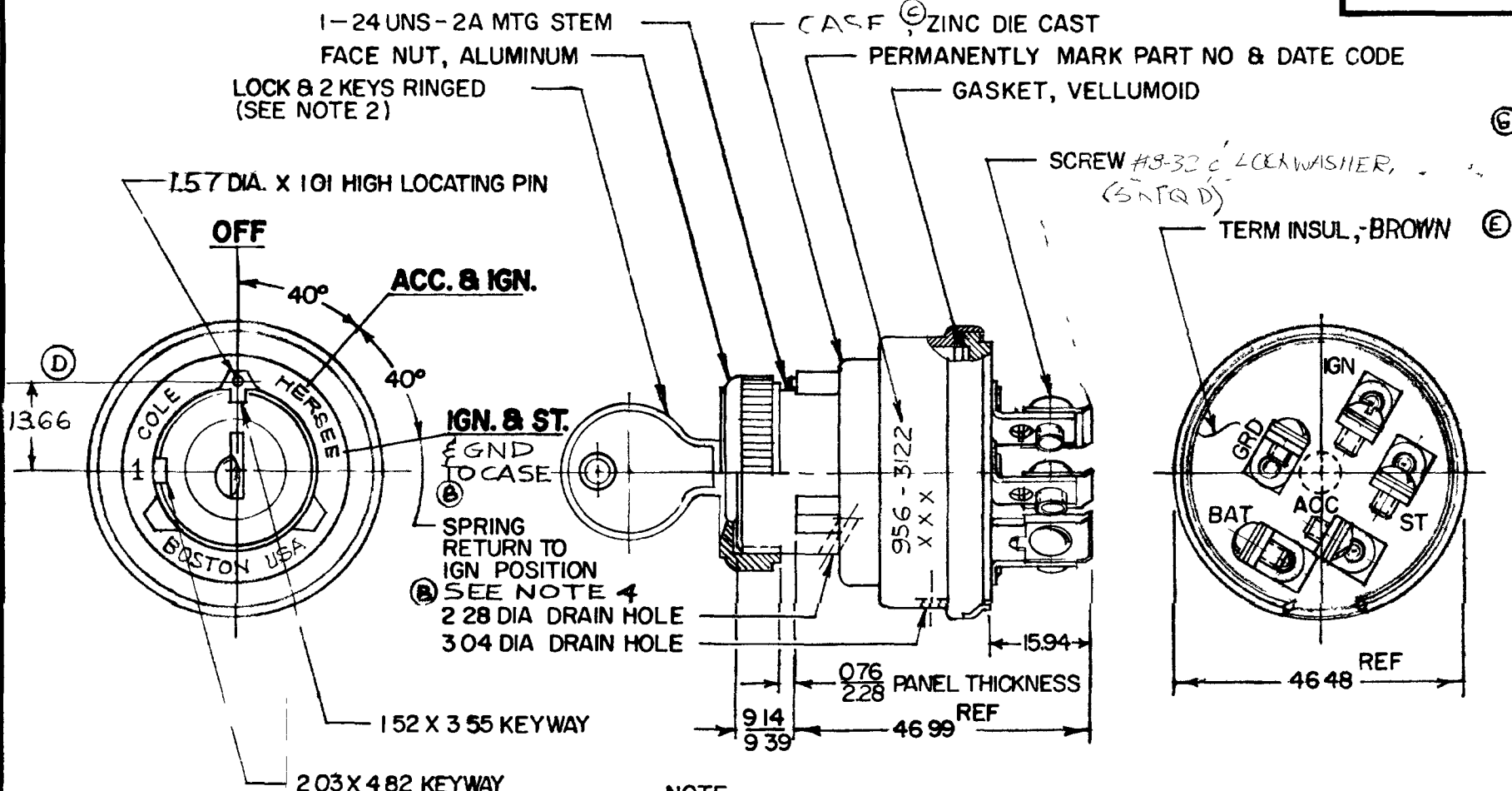


MM	IN
.25	.010
.76	.030
1.01	.040
1.52	.060
1.65	.065
2.03	.080
2.28	.090
3.04	.120
3.55	.140
4.82	.190
9.14	.360
9.39	.370
15.74	.620
16.00	.630
46.48	1.830
46.99	1.850
157	6.2
13.66	53.8

NPM 3-4-76
EX-16393C

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

956-3i22



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	1/11	A	REDRAWN	3-22-79	FR	DECIMAL ±					
								METRIC ± .25					

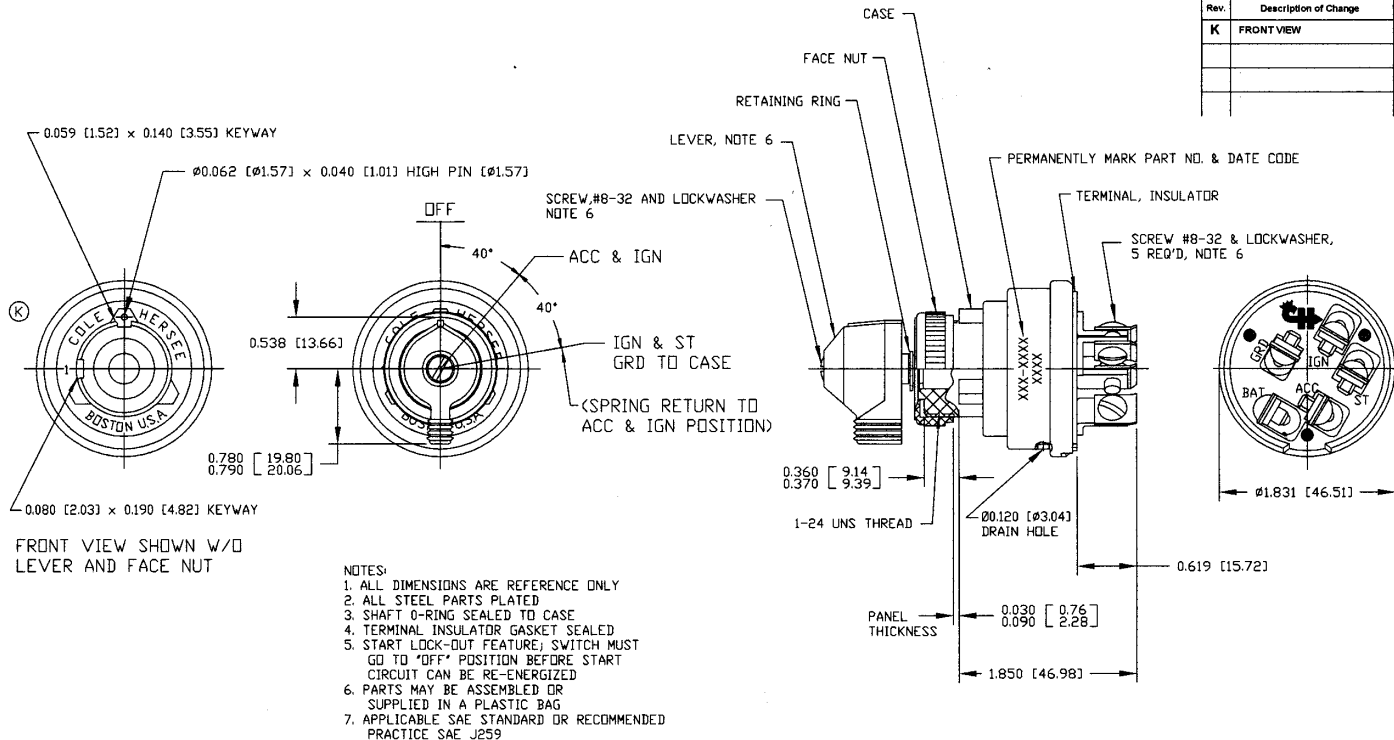
CH Cole Hersee Co.
20 OLD CO ONLY A ENUE SOUT BOSTON M. U.S. 27

3- POSITION
IGNITION & START SWITCH 956-3i22

CH 188(4 78)

Revision Control Record

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



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:

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

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

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

***MSP* or as Available:** 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 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 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 once released specifically noted.

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

Drawn By: KPC

Date Drawn: 4/17/06

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:

Page 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

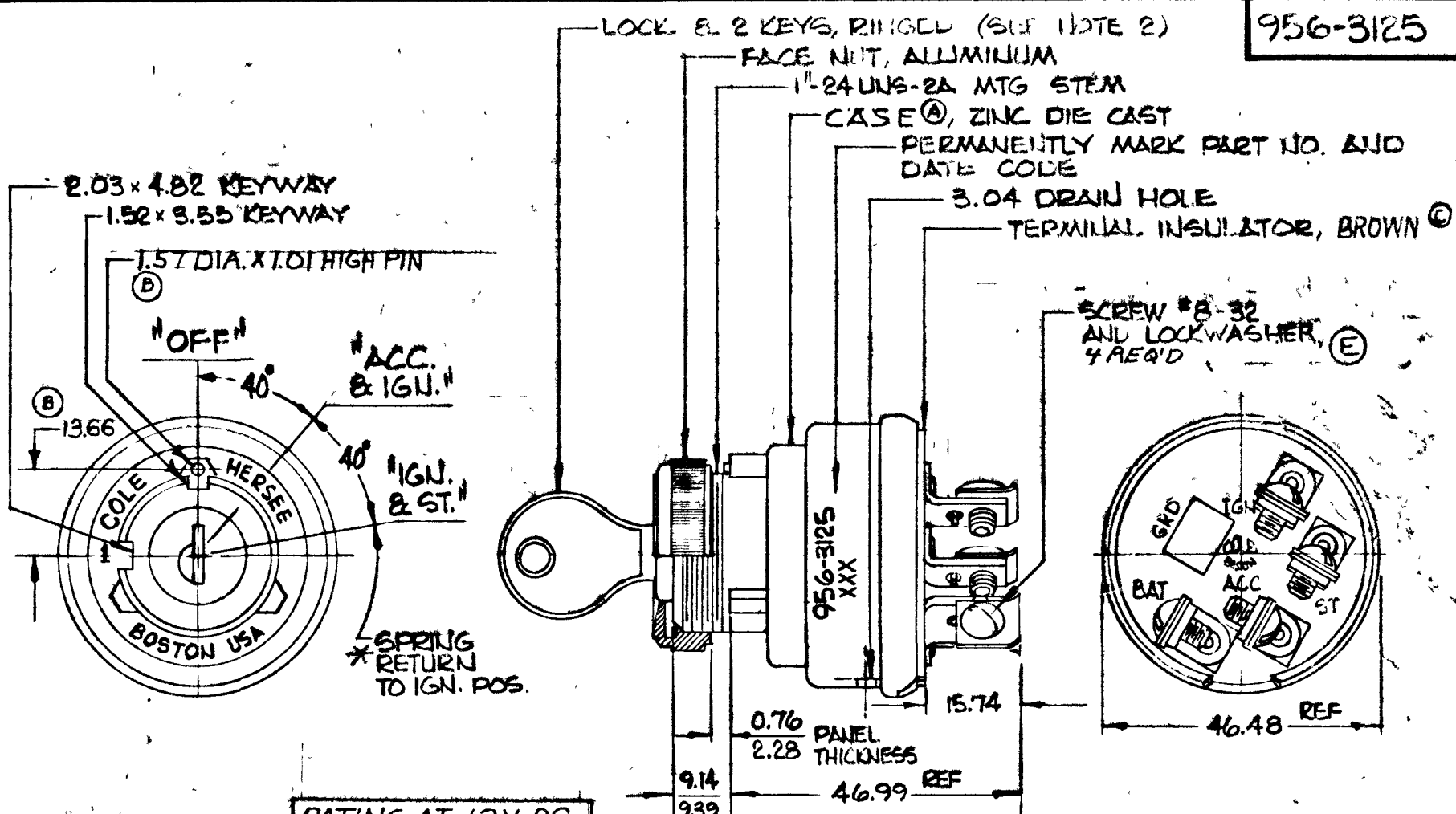
Current Rev.: K

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

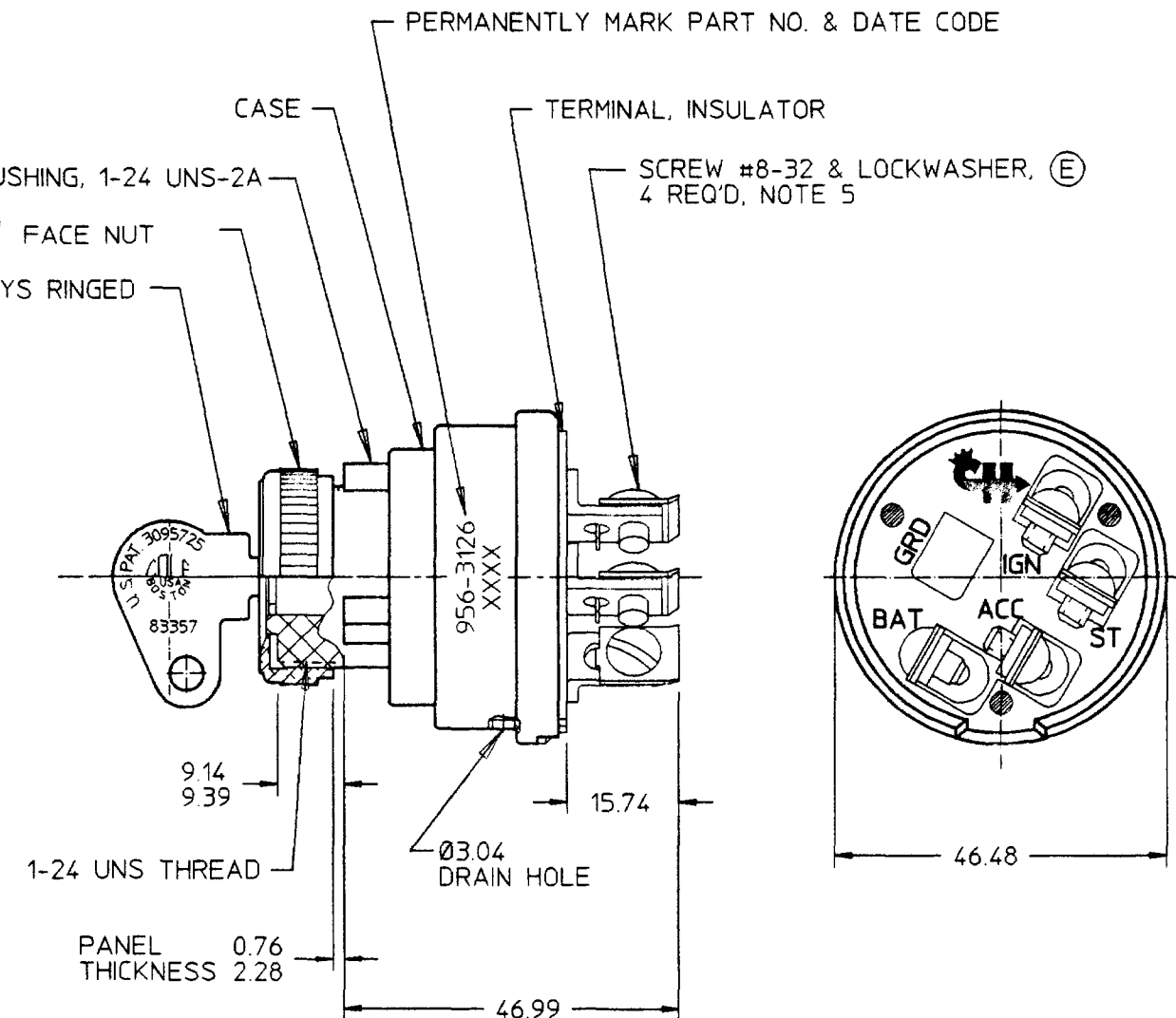
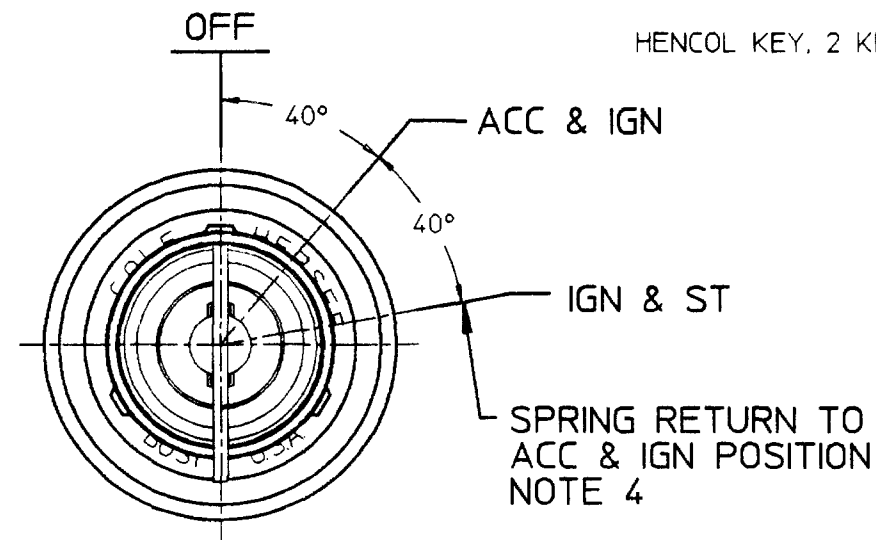
METRIC

- 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.
 (D) 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 ADDED/25039	12/20/92	1/11	—	KPC	1/29/75		1:1		10-26-76
				C	ECN 25189	8/13/92	1/11	FINISH						
				B	16.01/22457	6-5-84	1/11	—						
				A	HOUSING	8/13/82	1/11							
E	ECN 40137	3/1/00	MA		15 JUL	11/2/16	1/11	TOLERANCES FRACTIONAL ± DECIMAL ±.25						
COLE-HERSEE COMPANY BOSTON, MASS. 02127, U.S.A.														DATE BLUEPRINT
3-POSITION IGN. & START SWITCH														956-3125

SPaulding CO., INC 21-5353



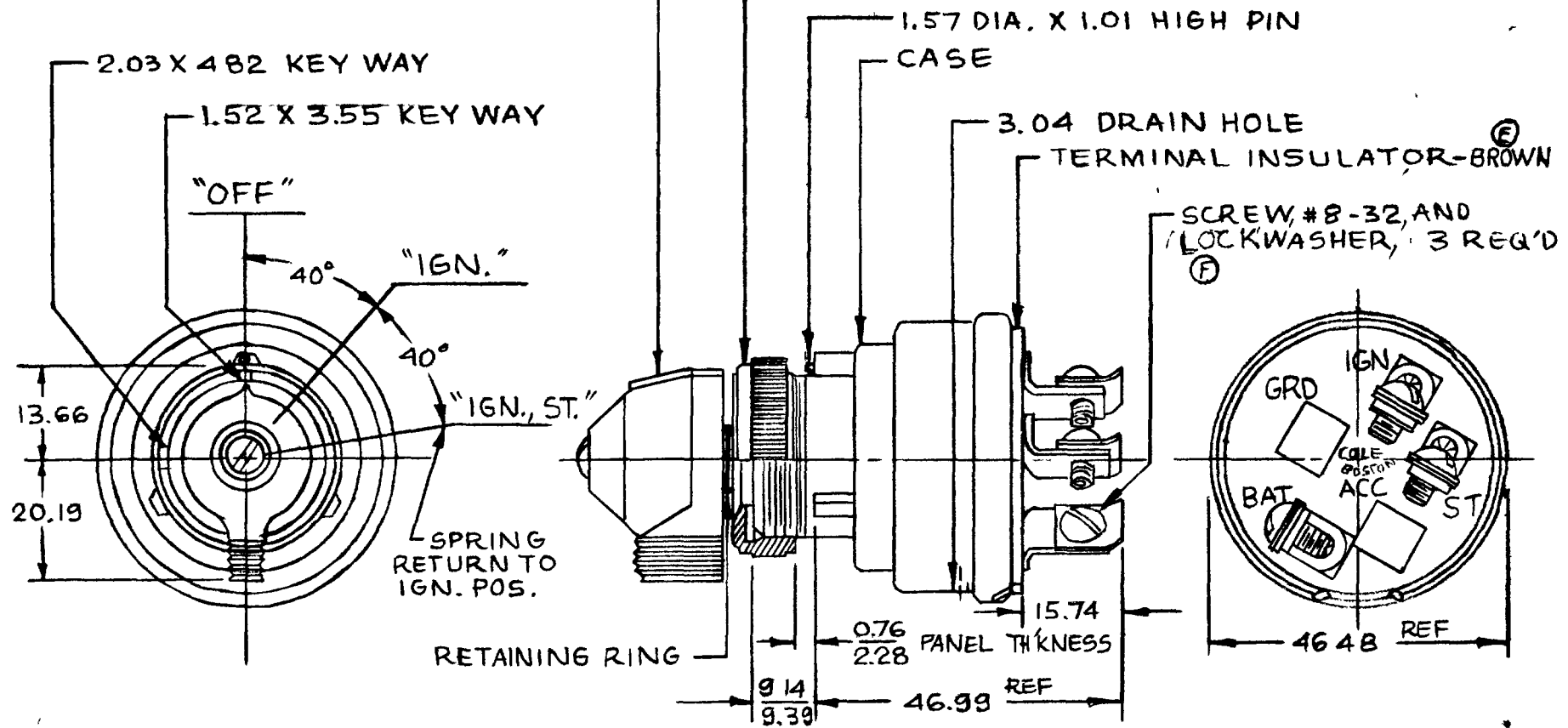
- NOTES:
1. ALL DIMENSIONS ARE REFERENCE ONLY
 2. ALL STEEL PARTS PLATED
 3. TERMINAL INSULATOR GASKET SEALED
 4. START LOCK-OUT FEATURE, SWITCH MUST GO TO "OFF" POSITION BEFORE START CIRCUIT CAN BE RE-ENERGIZED
 5. PARTS MAY BE ASSEMBLED OR SUPPLIED IN A PLASTIC BAG
 6. APPLICABLE SAE STANDARD OR RECOMMENDED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

METRIC

LET.	WAS	DATE	BY	LET.	WAS	DATE	BY	MATERIAL	DRAWN	CHK	APVD	SCALE	DATE DRAWN
									KG	Jmp		1:1	10/27/97
								FINISH	 Cole Hersee Co. 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 ECN #26936	9/12/97	AJS	DECIMAL ± ANGLE ±					

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	APPROV'D	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

CN-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.

DO NOT SCALE.

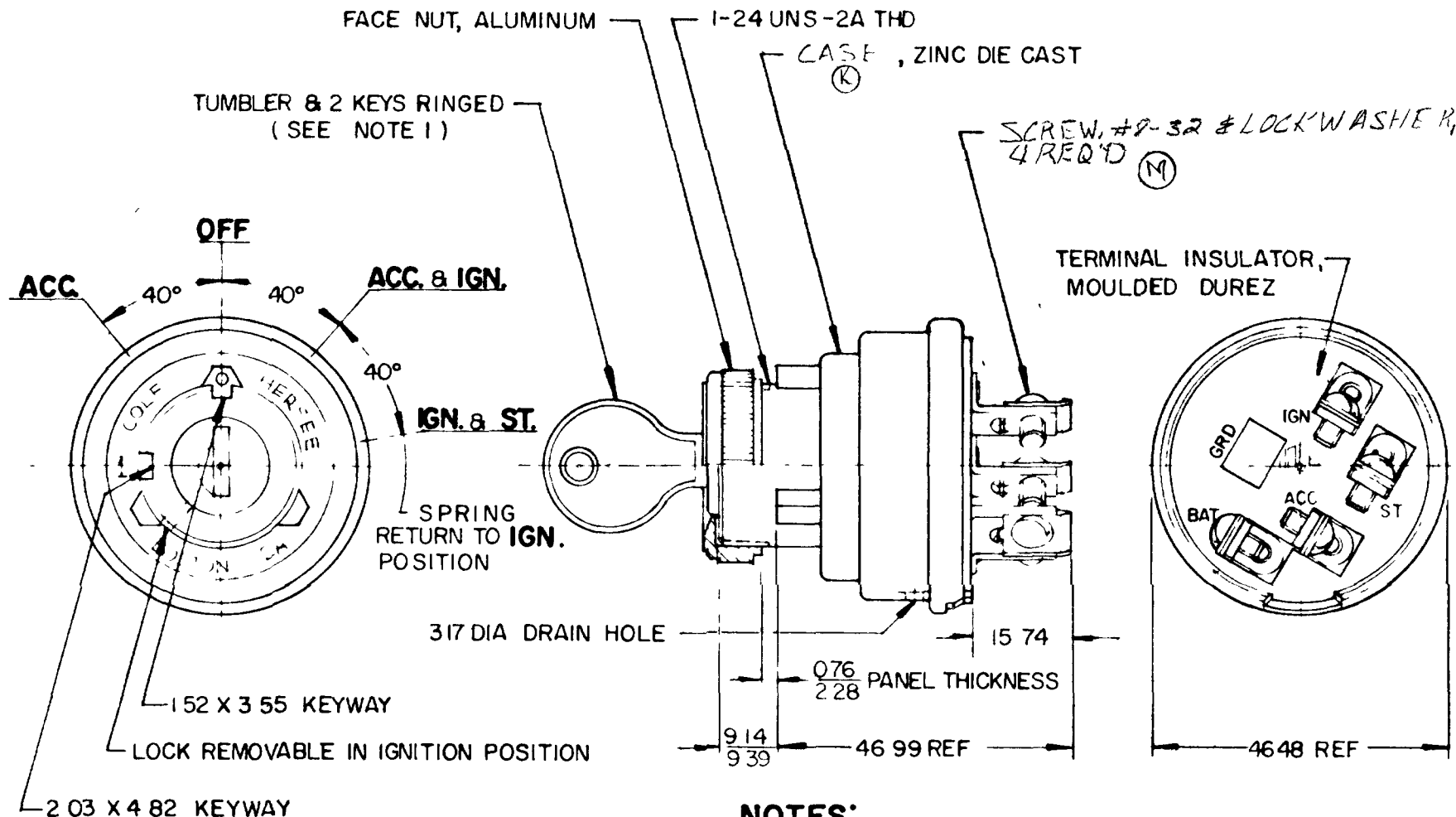
(CH-1004-70)

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

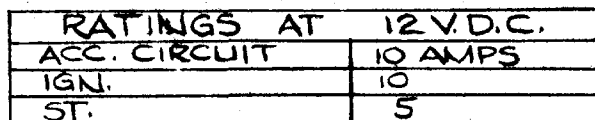
DO NOT SCALE

LET	WAS	DATE	BY	LET	WAS	DATE	BY	ATERIAL	DRAWN	HE	REGISTERED	SCALE	DATE DRAWN
								—#—	MF	1-26-79		1:1	3-15-66
				M	ECN 00137	3/1/00	MA	FIP CH	 Cole Hersee Co. 50 DEGREE 1/2 IN 1/				

CH 188 (4 78)

956-4107

EX-14258

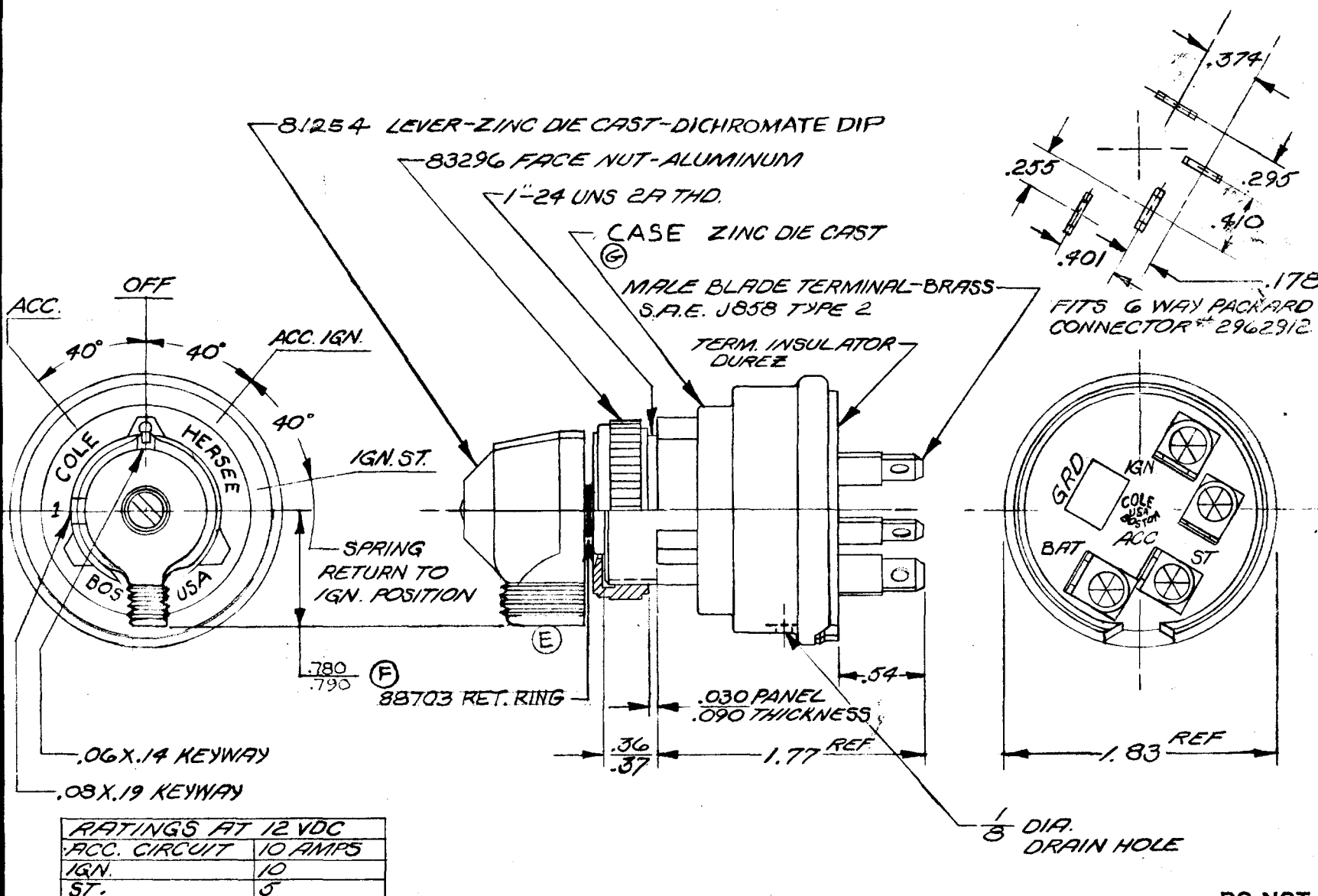


NOTE:
1) SHAFT O-RING SEALED TO HOUSING
2) TERMINAL INSULATOR (GASKET SEALED)
③ 3) ALL STEEL PARTS PLATED DO NOT SCALE

LET	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPR'VD.	SCALE	DATE DRAWN
								1/2	CF	U.M		1:1	9-20-66
				G	ECN 00137	3/1/00	HH	FINISH	COLE-HERSEE COMPANY BOSTON, MASS. 02127, U.S.A.				DATE BLUEPRINT
				F	NOTED ADDED 125234	12/18/92	TJH	1/2					
				E	HOUSING	8-13-82	1/3	TOLERANCES	4 POSITION IGN. & START SWITCH				956-4107
				D	REDRAWN	2-11-76	1/4	FRACTIONAL ± DECIMAL ±.010					

APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

956-4/11



DO NOT SCALE

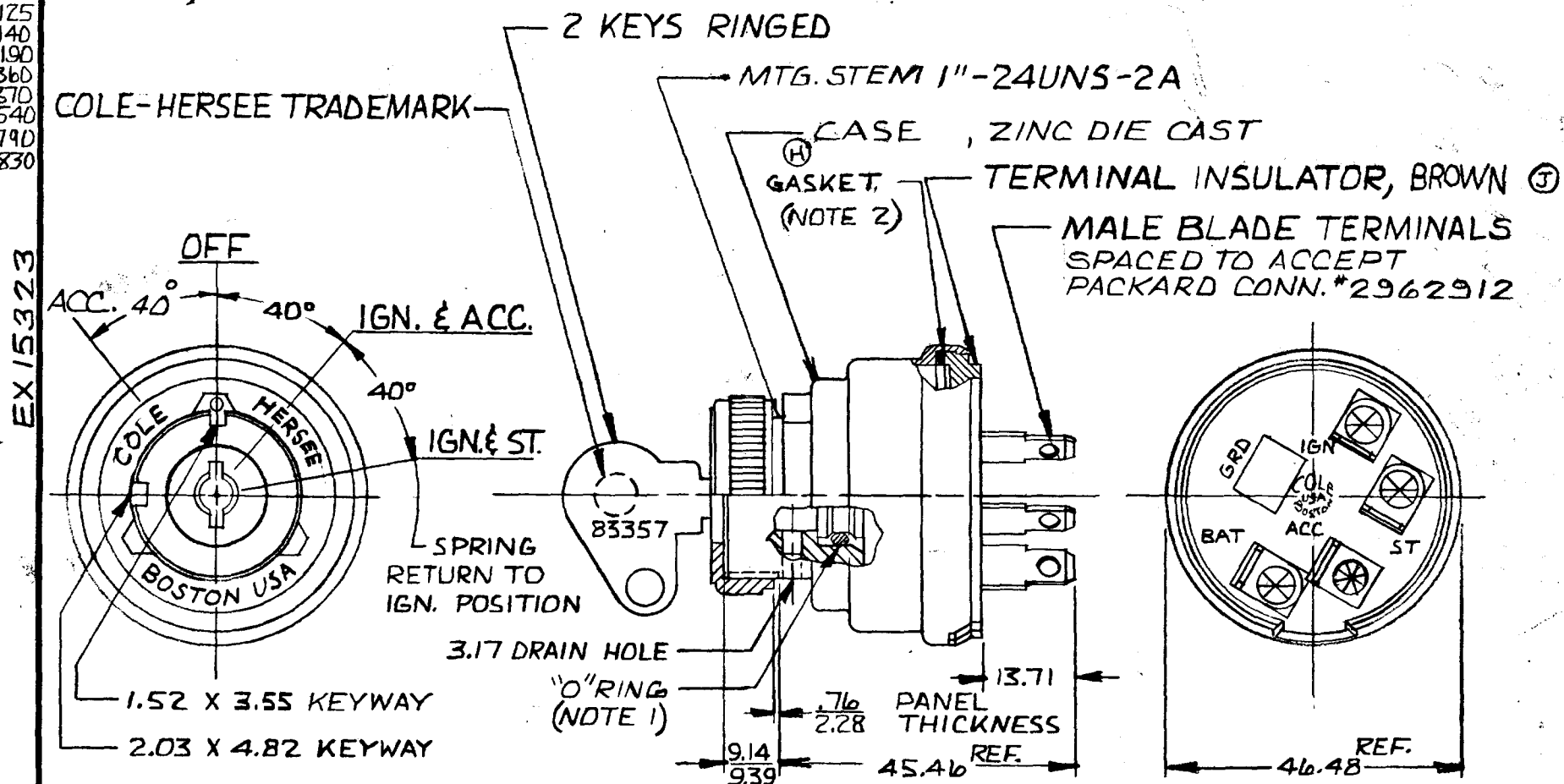
LET	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPR'D.	SCALE	DATE DRAWN
				G	HOUSING	8-13-66	CR	---	N.B	UNCL CHG 72		FULL	1-18-68
				F	ADDED RING/20329	10-13-78	R	FINISH	COLE-HERSEE COMPANY				DATE BLUEPRINT
				E	LEVER, 19848	4-6-77	RT	---	BOSTON, MASS. 02127, U.S.A.				
				D	SAE SPEC ADDED	3-5-74	W	TOLERANCES	4 POSITION				956-4111
				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

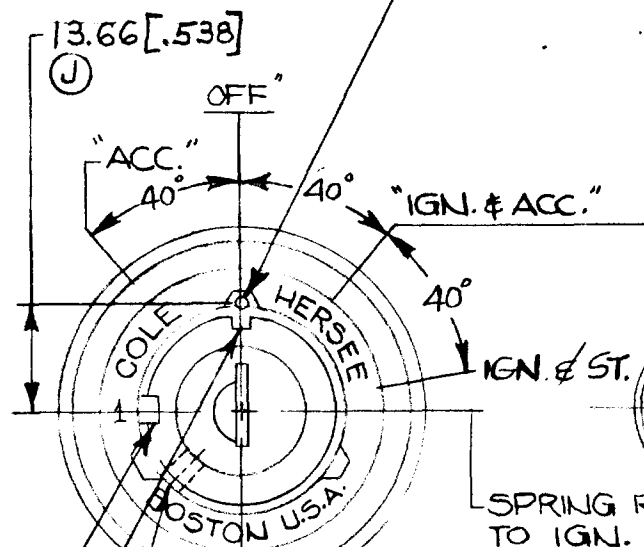
EX 16009 E

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

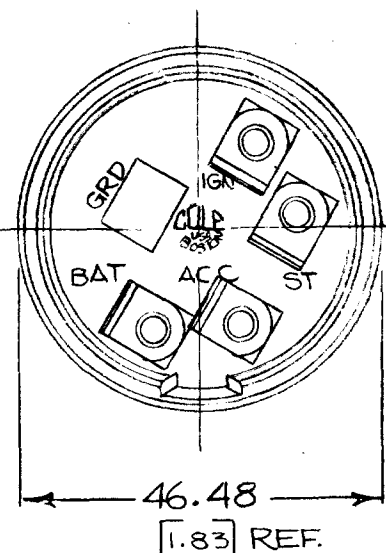
3.17 [.125]
DR. HOLE

9.14 [.36]
9.39 [.37]

.76 [.030]
2.28 [.090] PANEL
THICK.

13.71 [.54]

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	TJH	FINISH	COLE-HERSEE COMPANY BOSTON, MASS. 02127, U.S.A.					DATE BLUEPRINT
				J	REVISEL/2245	6/6/84	YAK	11						
				H	HOUSING	8-13-88	DP	TOLERANCES	4 POSITION IGNITION & START SWITCH					956-4116
				G	REDRAWN	7-21-75	JWH	FRACTIONAL ± DECIMAL ±.010						

SPAULDING CO., INC. 21-55259

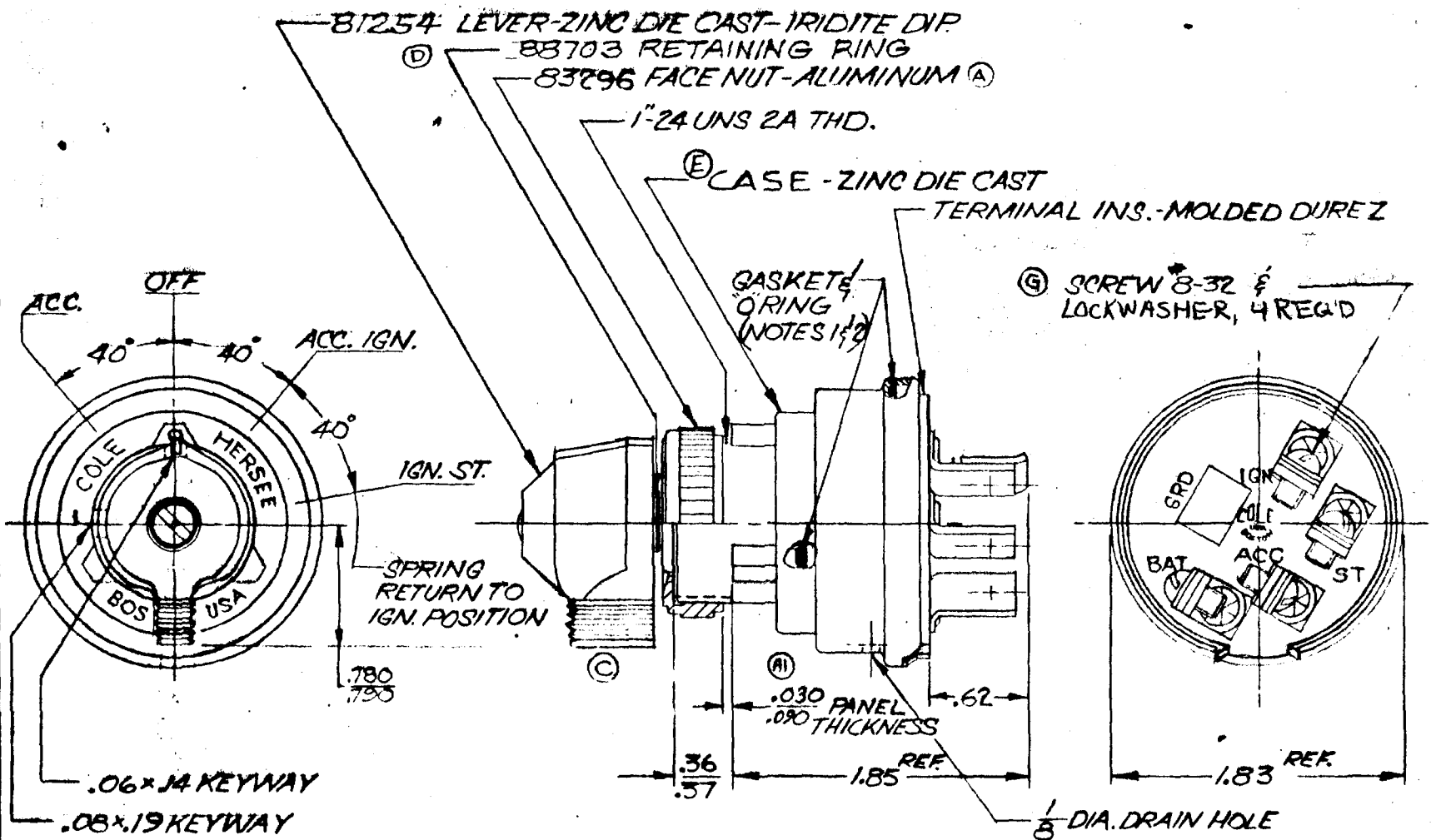
Confidential Property of Cole Hersee

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

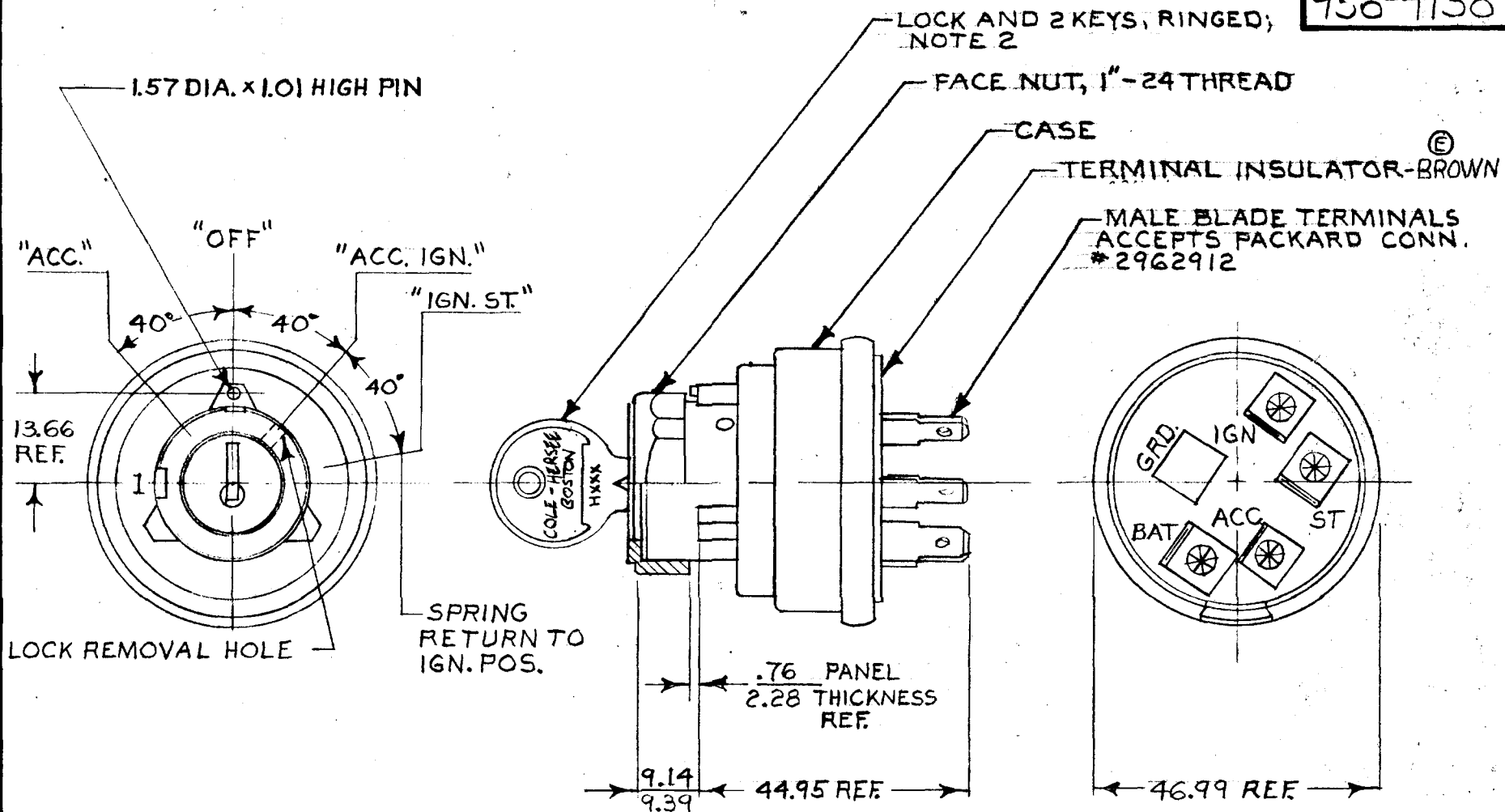
LET	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPR'D	SCALE	Blk. 956 4111	DATE DRAWN
				C	81254 LEVER	19043	4-6-77	RMT	CT	REC		FULL		1-12-72
G	ECN #00138	3/1/00	KE	B	SAE SPEC ADDED	3-5-74	3	W	COLE-HERSEE COMPANY BOSTON, MASS. 02127, U.S.A.					DATE BLUEPRINT
F	NOT ADDED 125234	12/22/92	HA	A	.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

950-4138

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>h</i>	KG	<i>h</i>		1:1	2-5-76
				G	ECN# 27087	10/21/97	AJS	FINISH					DATE BLUEPRINT
				F	ECN # 26335	10/17/96	Jmp	<i>h</i>					
				E	ECN 25189	8-14-92	TJH	TOLERANCES					
				L	REDRAWN	8-15-84	h	DECIMAL ±					
								METRIC ±					
										 Cole Hersee Co. 20 OLD COLONY AVENUE, SOUTH BOSTON, MA, U.S.A. 02107			
										SWITCH IGNITION & START 4 POS.			956-4138

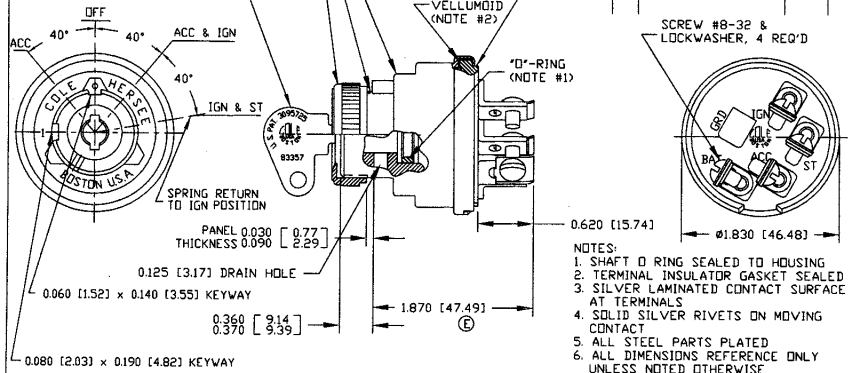
CH-188(4-78)

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



Tolerances. Unless otherwise specifically noted, the following are default tolerances:

- * 2-place Decimal Dimensions: ± 0.02
- * 3-place Decimal Dimensions: ± 0.005
- * 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

"NFI" or an Asterisk (*) = Non-Toleranced Reference Dimension, shown for identification purposes only.

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

Scale: **1:1**

Drawn By: **VK**

Date: **9/5/78**

Responsible Engineer: **N/A**

Page: **1 of 1**

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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
- 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
Ph: 617-285-2100 Web: www.colehersee.com

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

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

Current Rev.: **E**

MM N

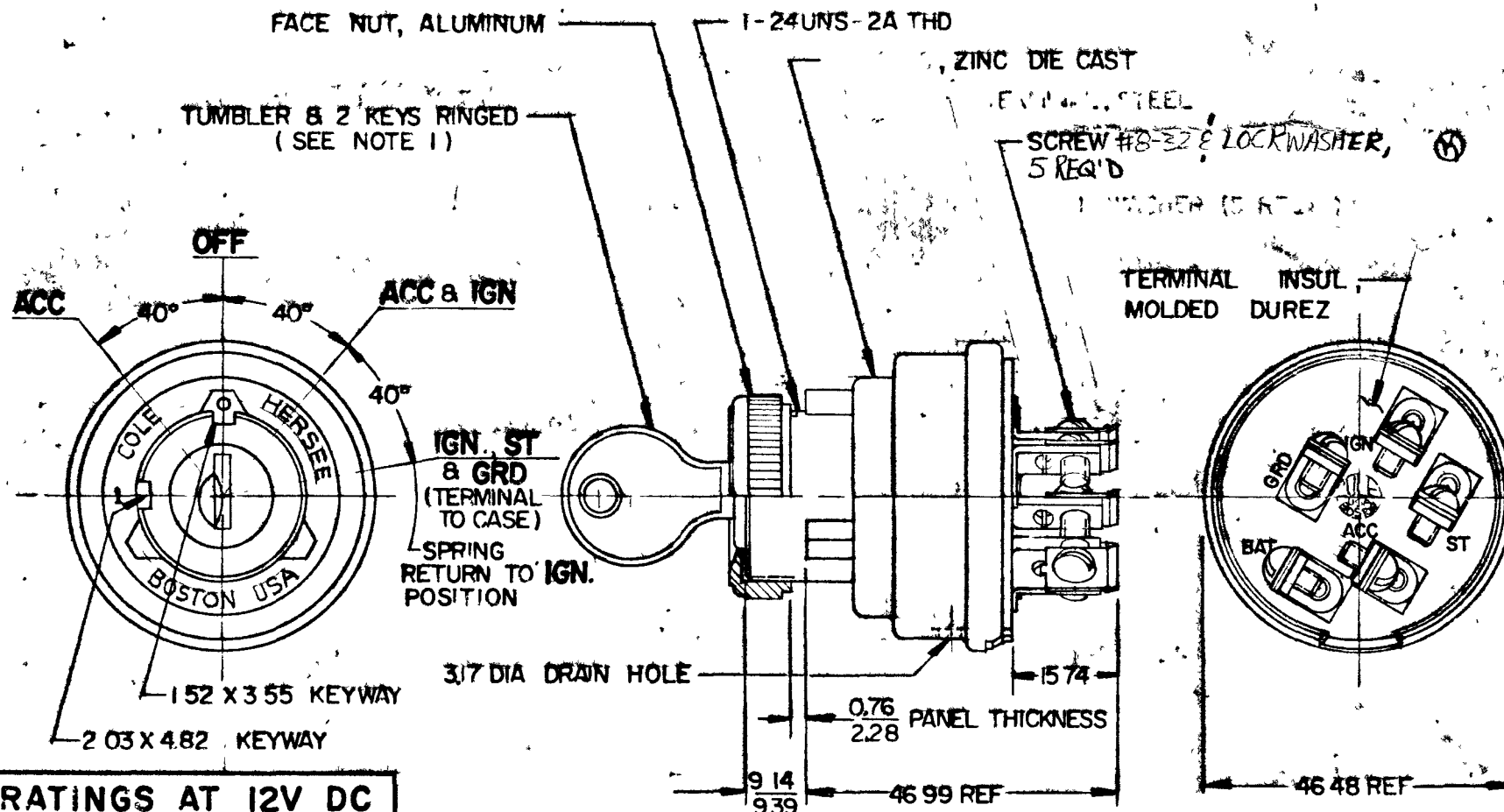
0.25 .00
0.76 .030
1.52 .060
2.03 .080
2.28 .090
3.17 .125
3.55 .140
4.82 .190
9.14 .360
9.99 .370
15.74 .620
46.48 1.830
46.99 1.850

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

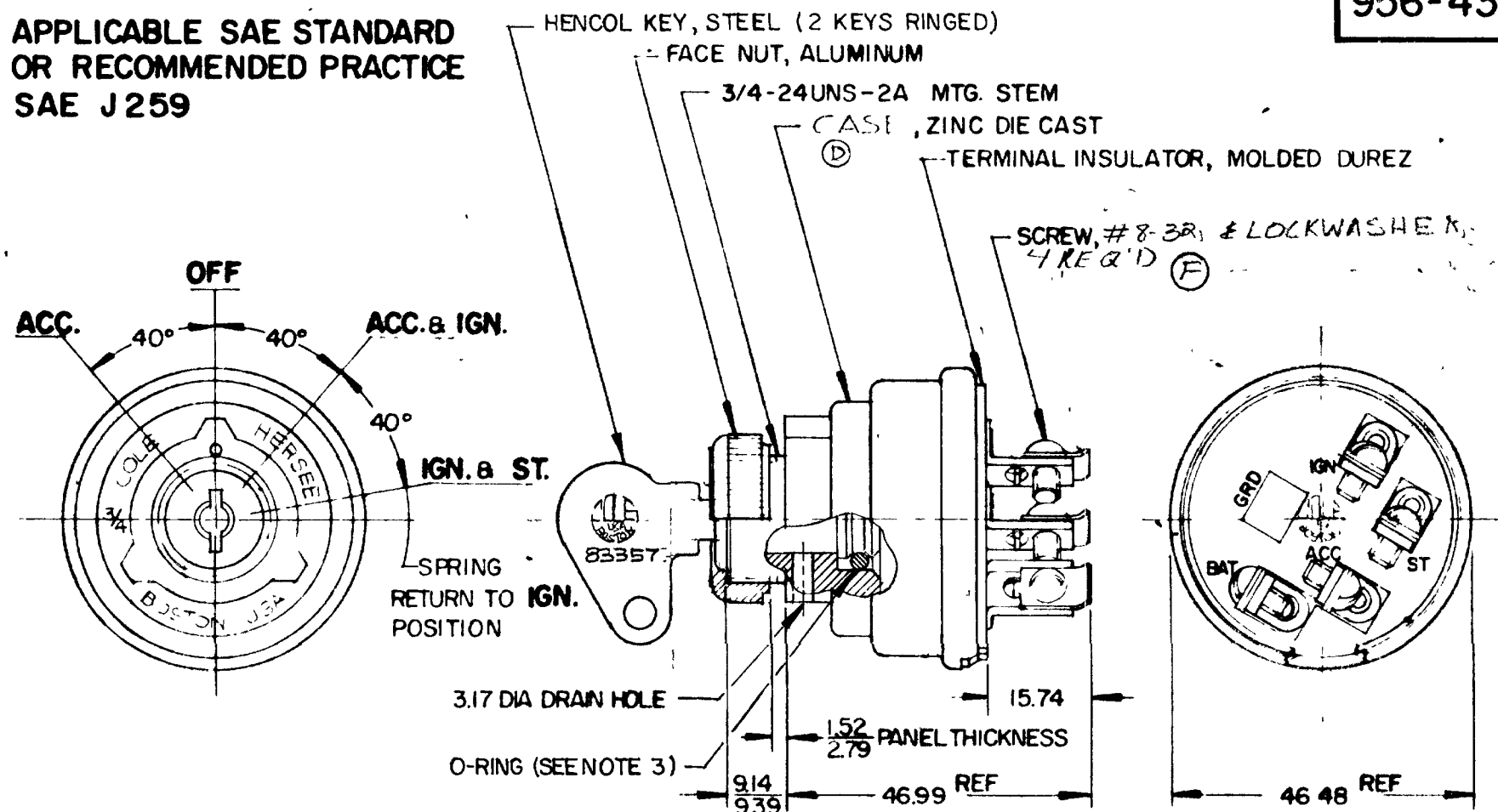
LET	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPROV'D	SCALE	DATE DRAWN
								—H—	C F	4/3/78		FULL	2-23-67
								FINISH					DATE BLUEPRINT
				K	ECN #00142	3/1/00	KF	—H—	COLE-HERSEE COMPANY				
				J	CAUTION 25234	12/22/92	T H		BOSTON, MASS 02127, U.S.A				
				H	REDRAWN	3-9-78	UV	TOLERANCES	4- POSITION				
								FRACTIONAL ±	IGNITION & START SWITCH				956-4154
								DECIMAL ±0.25					

SPAULDING CO, INC 21-10961

MM	IN
0.25	.000
1.52	.060
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	APPROVED	SCALE	DATE DRAWN	
									CF	 5-1-79	11	12 - 12 - 66	
				F	ECN 00137	3/1/00	HA	FINISH	 Cole Hersee Co. 1000 AVENUE SOUTH • BOSTON, MASS. 02127				DATE BLUEPRINT
				I	CAD OR ZINC 125234	12/18/93	111						
				D	HOUSING	8-16-82	PS	TOLERANCES	4- POSITION IGNITION & START SWITCH				956-4307
				C	REDRAWN	5-21-79	JV	DECIMAL $\pm .010$ METRIC $\pm .25$					

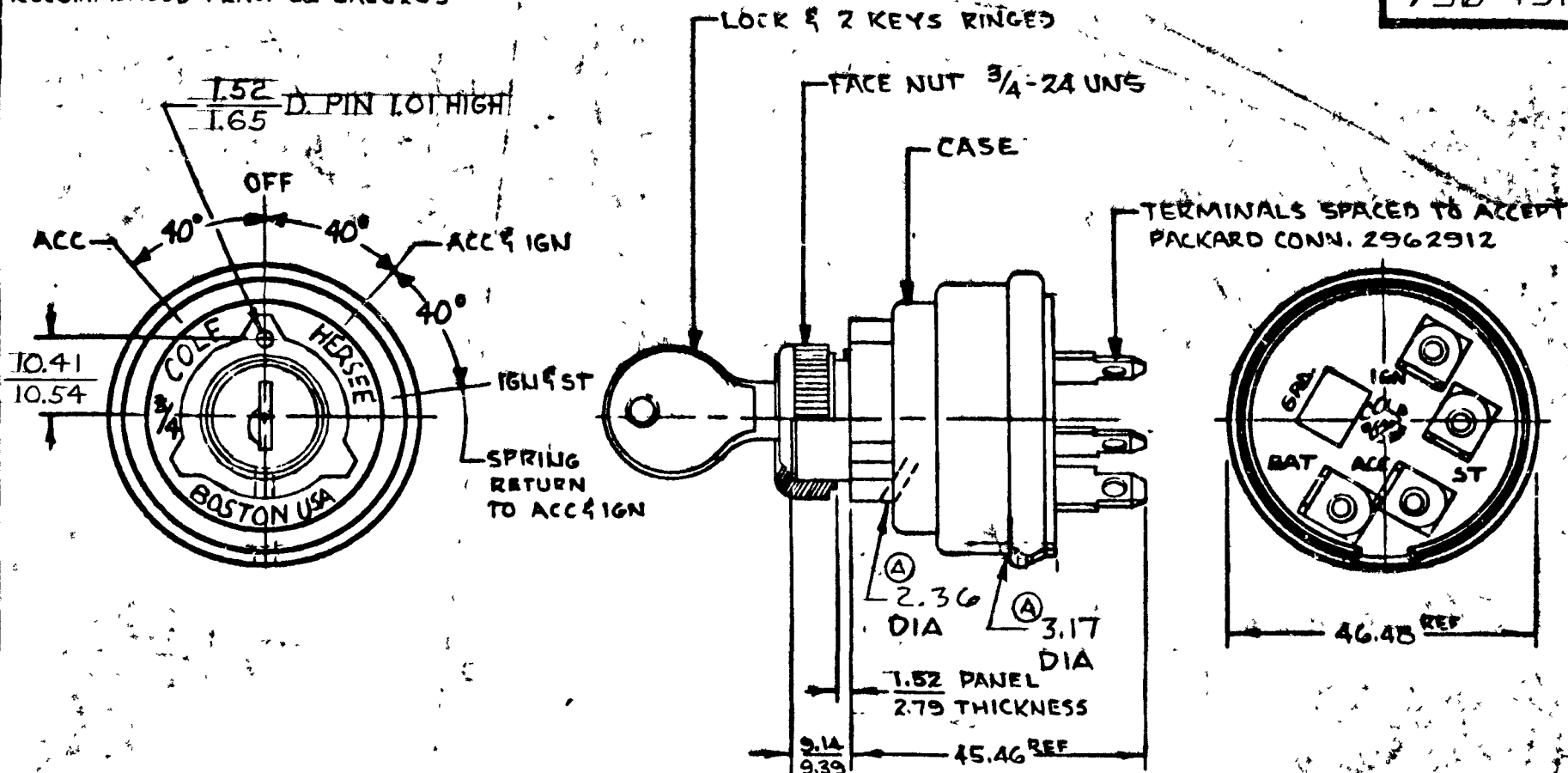
CH 188(4 78)

Confidential Property of Cole Hersee

MM IN
 L01 .040
 L52 .060
 L65 .065
 279 .110
 9.14 .360
 9.39 .370
 JQ.41 .410
 JQ.54 .415
 88.46 1.790
 46.48 1.830
 2.36 .093
 3.17 .125

APPLICABLE SAE STANDARD OR
 RECOMMENDED PRACTICE SAE J269

956-4311



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 ϕ 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	APPROVED	SCALE	DATE DRAWN
								—H—	RJF	RFB		1"=1"	6-17-83
								FINISH					DATE BLUEPRINT
								—H—					
				A	ADD'D DIM.	7-2-83	WBS	TOLERANCES					
					ECN 727.01			DECIMAL $\pm .010$					
					ISSUED	9/2/83	LB	METRIC ± 2.54					

Cole Hersee Co.
 1000 WEST 10TH AVENUE, DENVER, CO. 80202

4 POSITION
 IGNITION & START SWITCH

956-4311

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

-46.48 REF

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

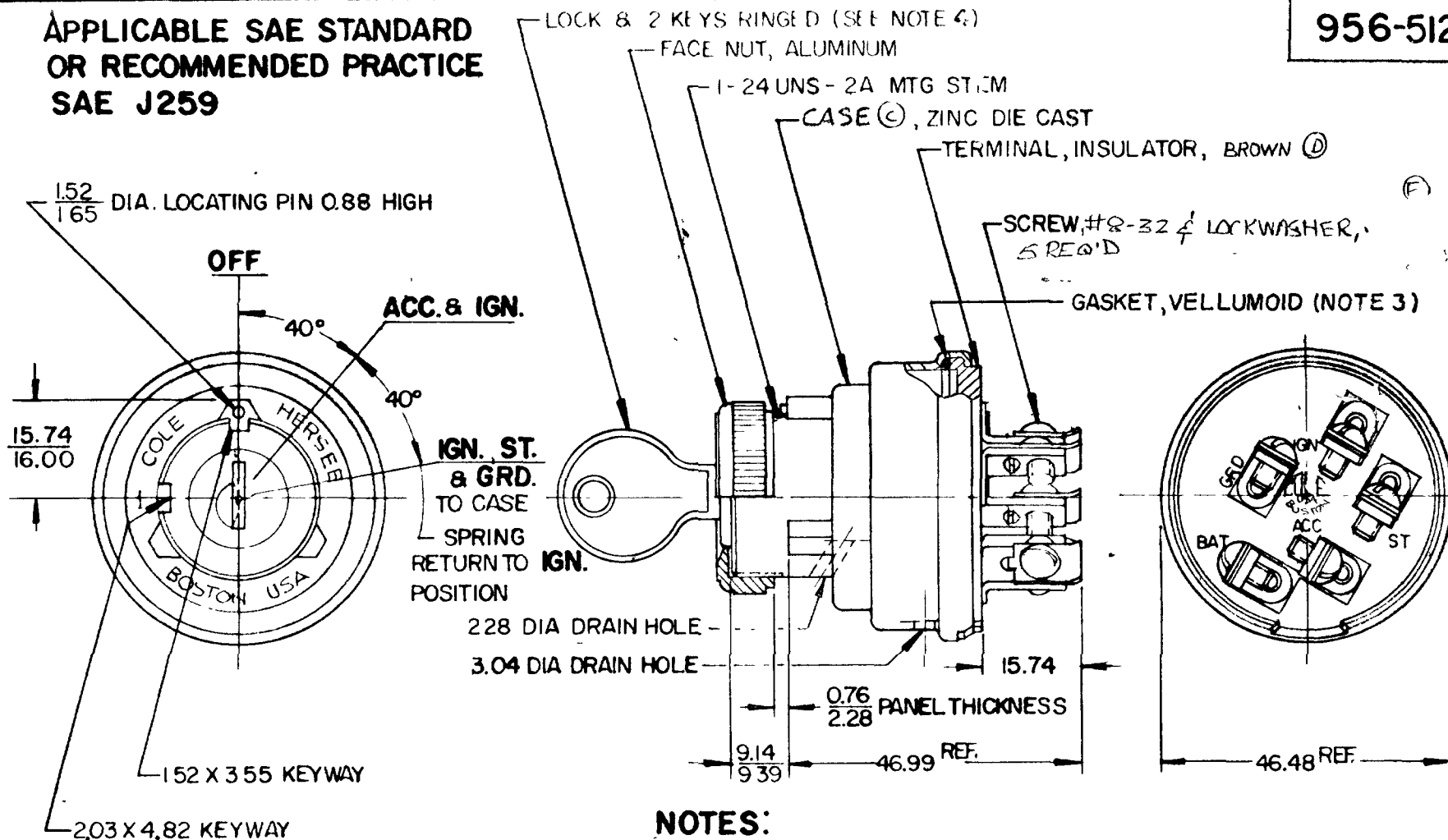
LET	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPROVED	SCALE		DATE DRAWN
				L	SAD CR ZINC 28034	1/2/29/72	JH	#	RW	1-30-79		1:1	HHS EXCEPT 3-PQS & W SCREW TERM. & LEVER	9-16-71
				K	EEN 25189	8/13/72	JH	FINISH						DATE BLUEPRINT
				J	DELITE NOTE / 23263	9-30-86	ZU	#						
N	EEN 000422	6/6/00	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
 0.50 0.02
 0.88 0.035
 1.50 0.05
 1.65 0.06
 2.00 0.08
 2.28 0.09
 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. CRKT	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	1/8	TOLERANCES						
				B	REDRAWN	1-19-79	VK	FRACTIONAL ± DECIMAL ± .25						
3 - POSITION IGNITION & START SWITCH														956-5122

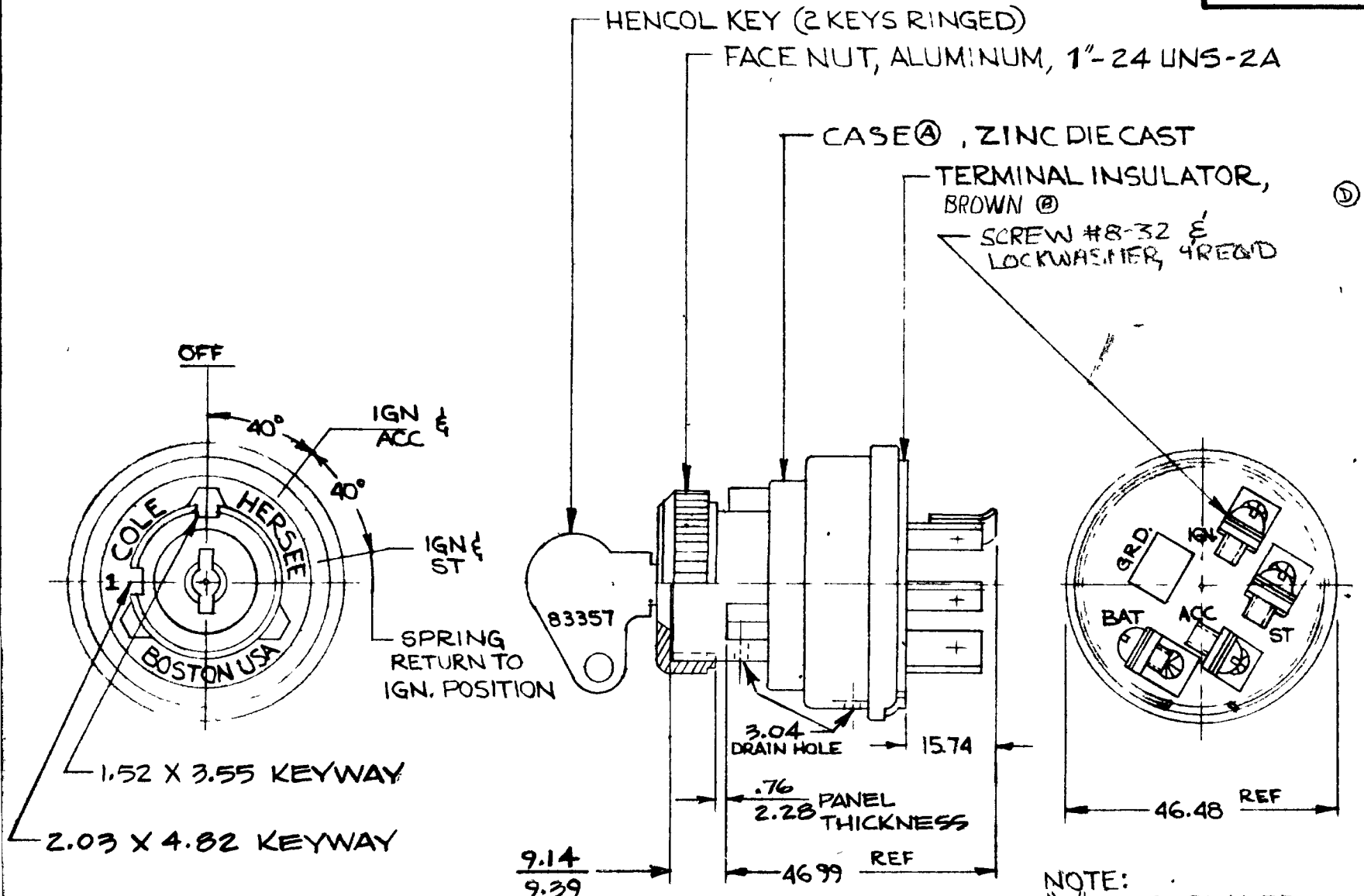
CH 189 (A 78)

MM	IN.
.25	.010
.76	.030
1.27	.050
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

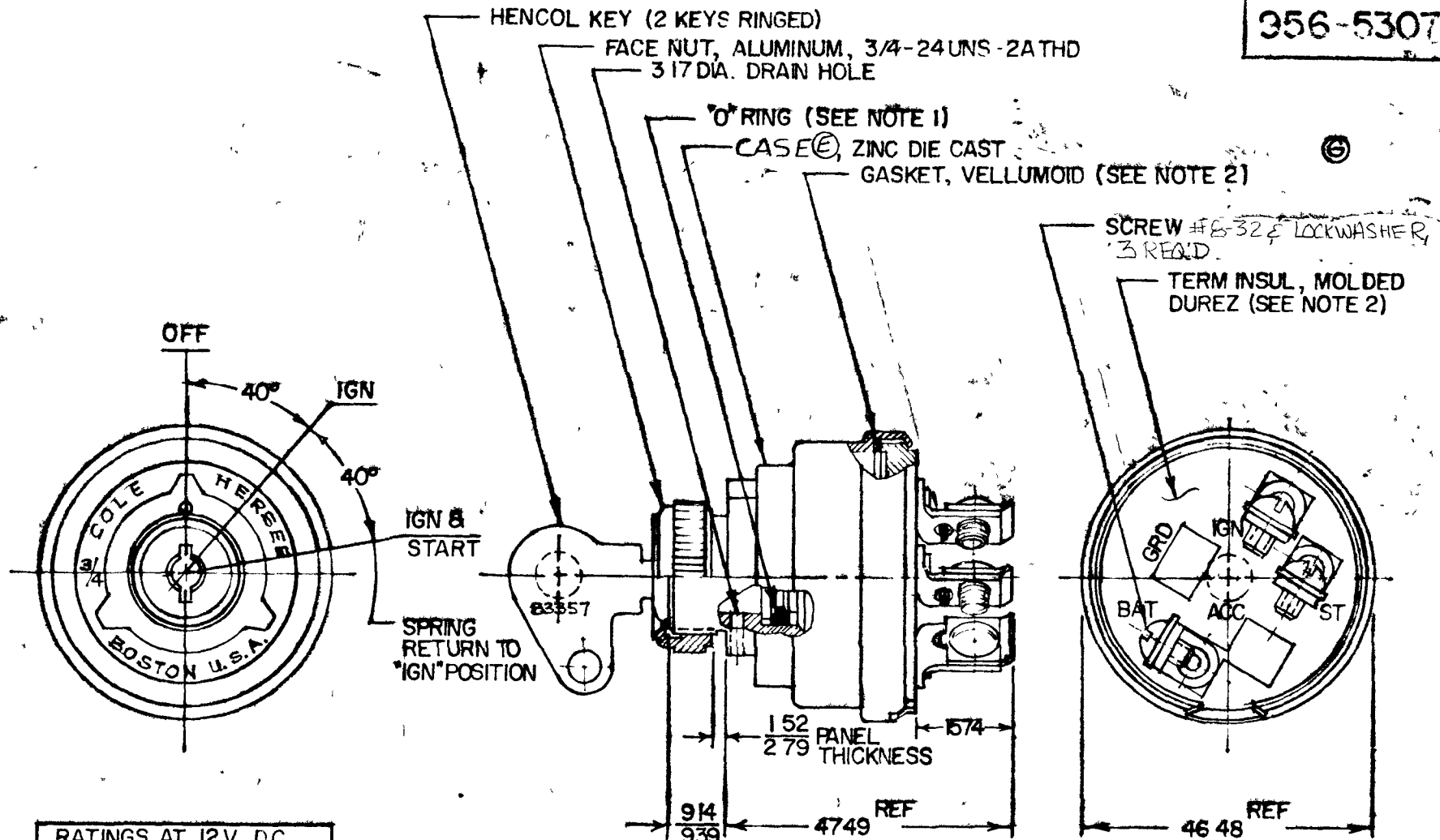
NOTE:
1. O-RING SEALED.

© 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	PS	FRACTIONAL ±						
								DECIMAL ±.25						
COLE-HERSEE COMPANY BOSTON, MASS. 02127, U.S.A.														DATE BLUEPRINT
IGN. START SWITCH														956-5124

MM
IN
.010
1.52
2.79
3.14
3.39
3.74
4.48
5.49
6.17

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-50M, PL DIP OR CAL 11
 4. APPLICABLE SAE STANDARD OR RECOMMENDED PRACTICE SAE J259

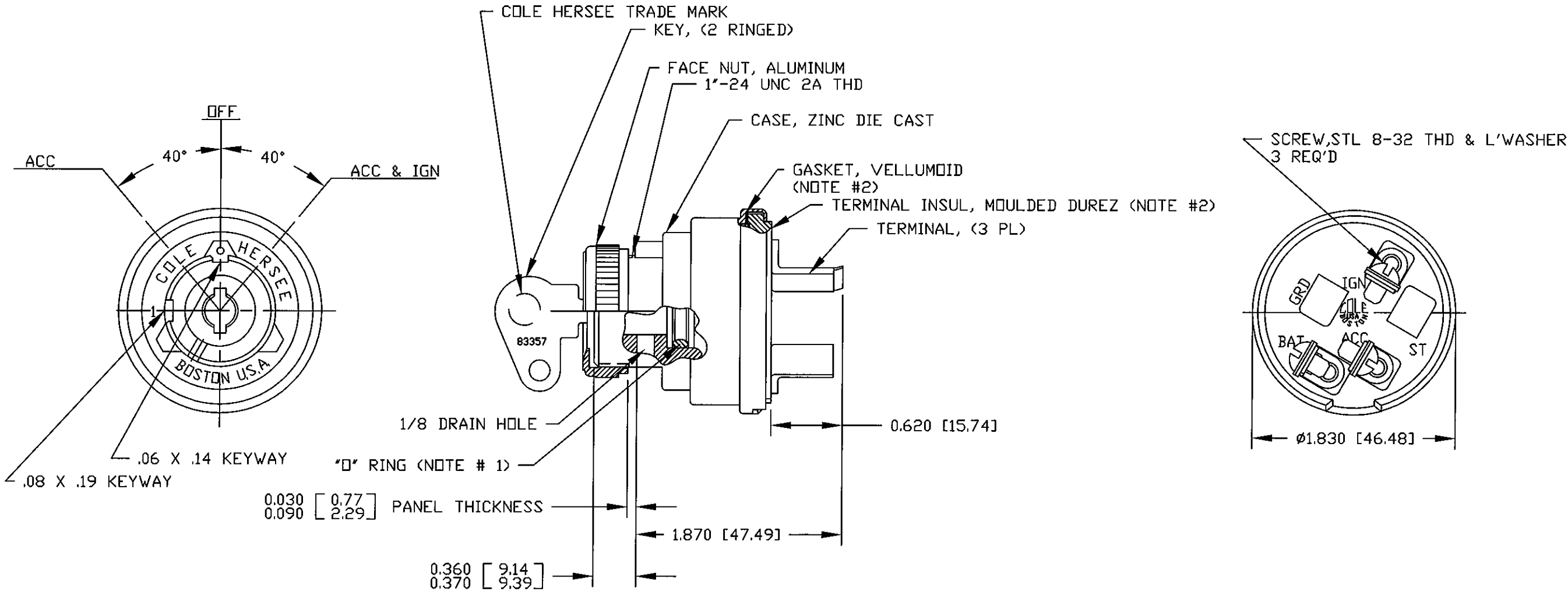
METRIC

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					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					
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



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

- 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

Tolerances Unless otherwise specifically noted, the following are default tolerances:

- 2-place Decimal Dimensions $\pm .02"$
- 3-place Decimal Dimensions $\pm .005"$
- 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

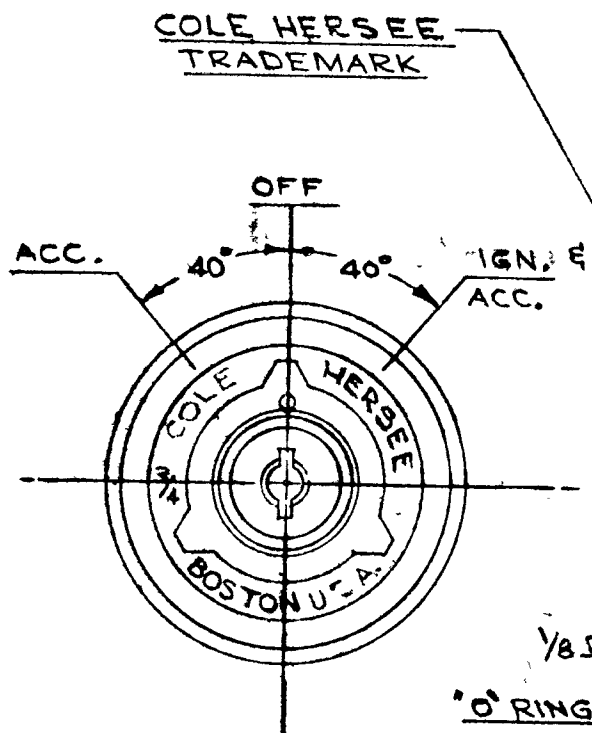
Drawing / Part No.:

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.

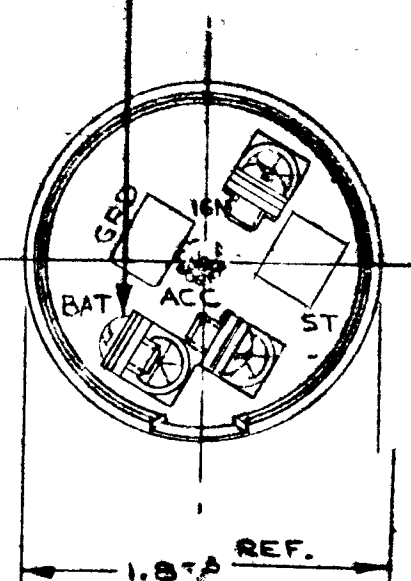
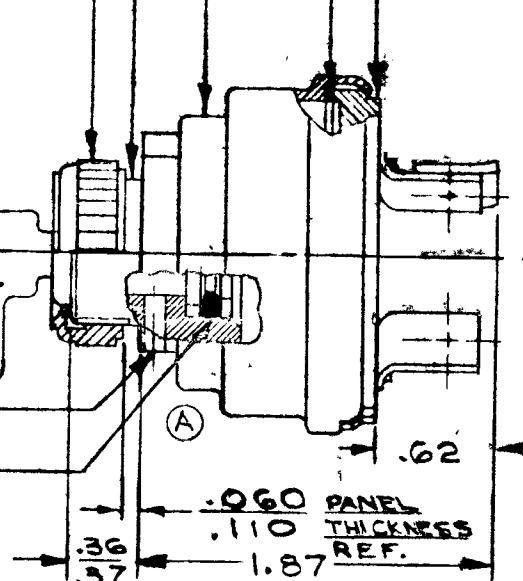
CASE (3), ZINC DIE CAST

GASKET, VELLUMOID (NOTE * 2)

TERMINAL INSULATOR MOLDED DUREZ (NOTE * 2)

LOCKWASHER, 3 REQ'D

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



NOTE:

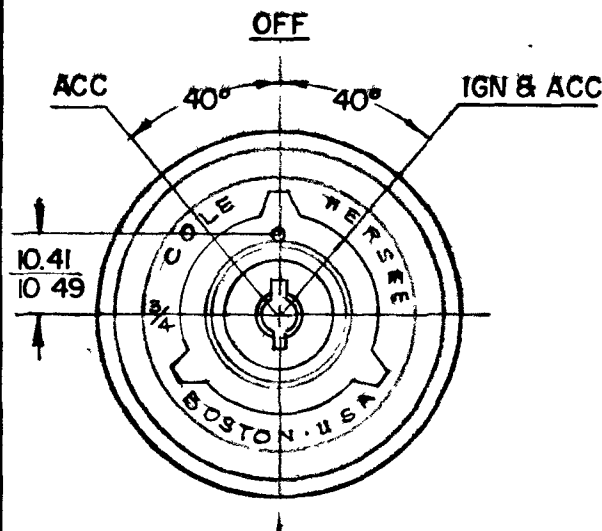
1. SHAFT "O" RING SEALED TO CASE
2. TERMINAL INSULATOR GASKET SEALED
- 3 ALL STEEL PARTS PLATED

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

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

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

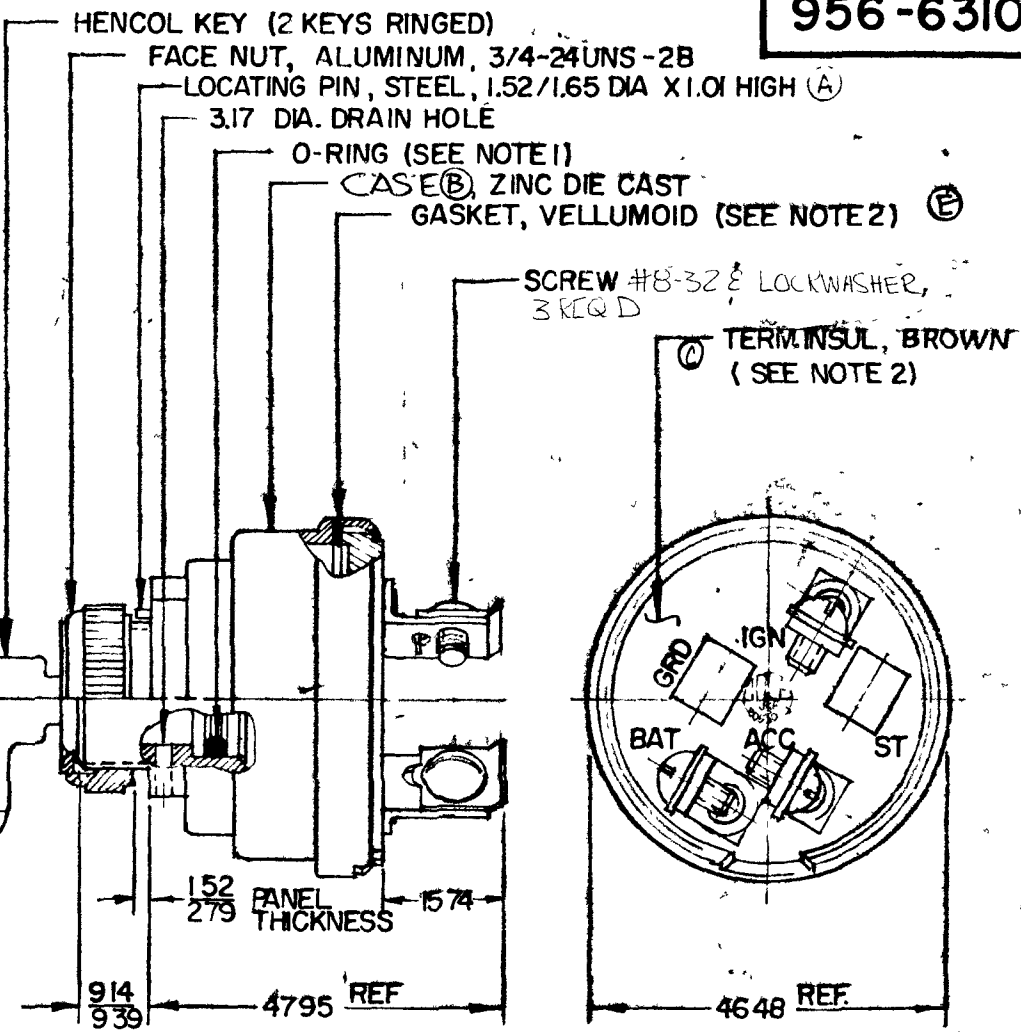
SEQ	DEPT.	OPERATING INSTRUCTIONS	DIE	MACH



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

APPLICABLE SAE STANDARDS OR RECOMMENDED PRACTICE SAE J259

METRIC



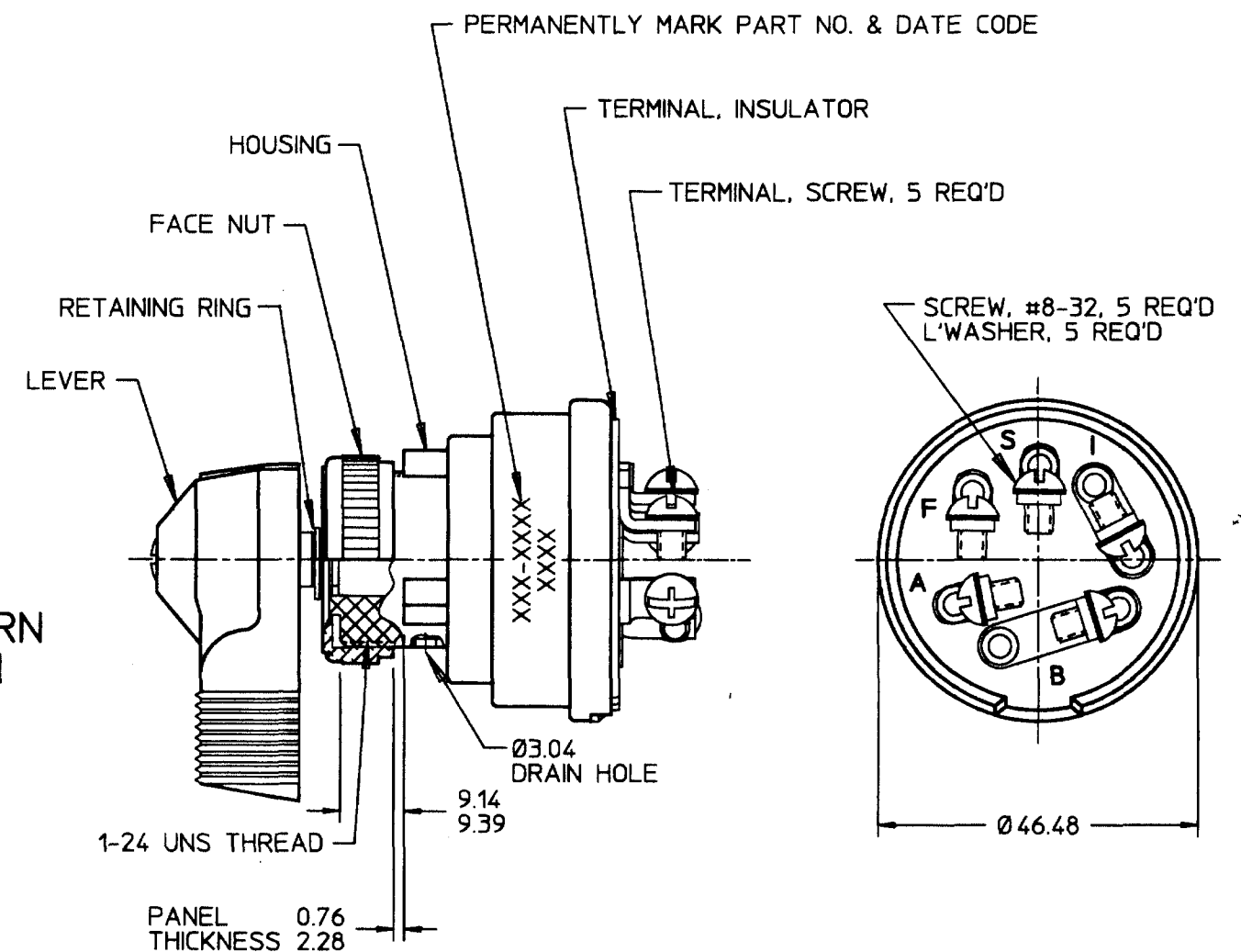
- NOTE:
1. SHAFT O-RING SEALED TO CASE
 2. TERM INSUL GASKET SEALED
 3. COPPER RIVETS ON MOVABLE CONTACT
 4. ALL STEEL PARTS PLATED

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	4	N/A	1:1	EX26789	11/24/97
								FINISH	CH	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						

Mouser Electronics

Authorized Distributor

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[956-5109](#) [956-5307](#) [956-4307](#)