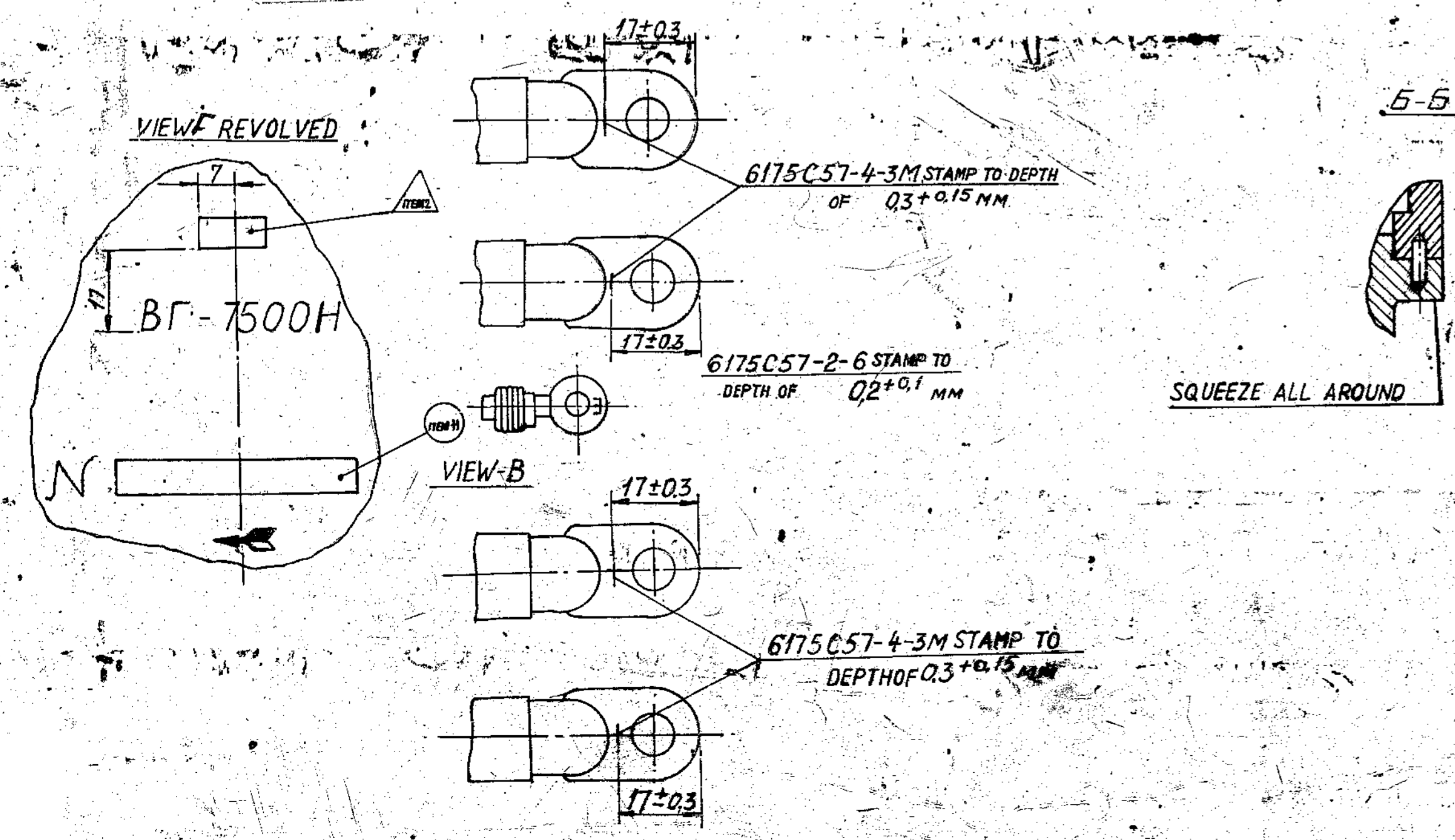
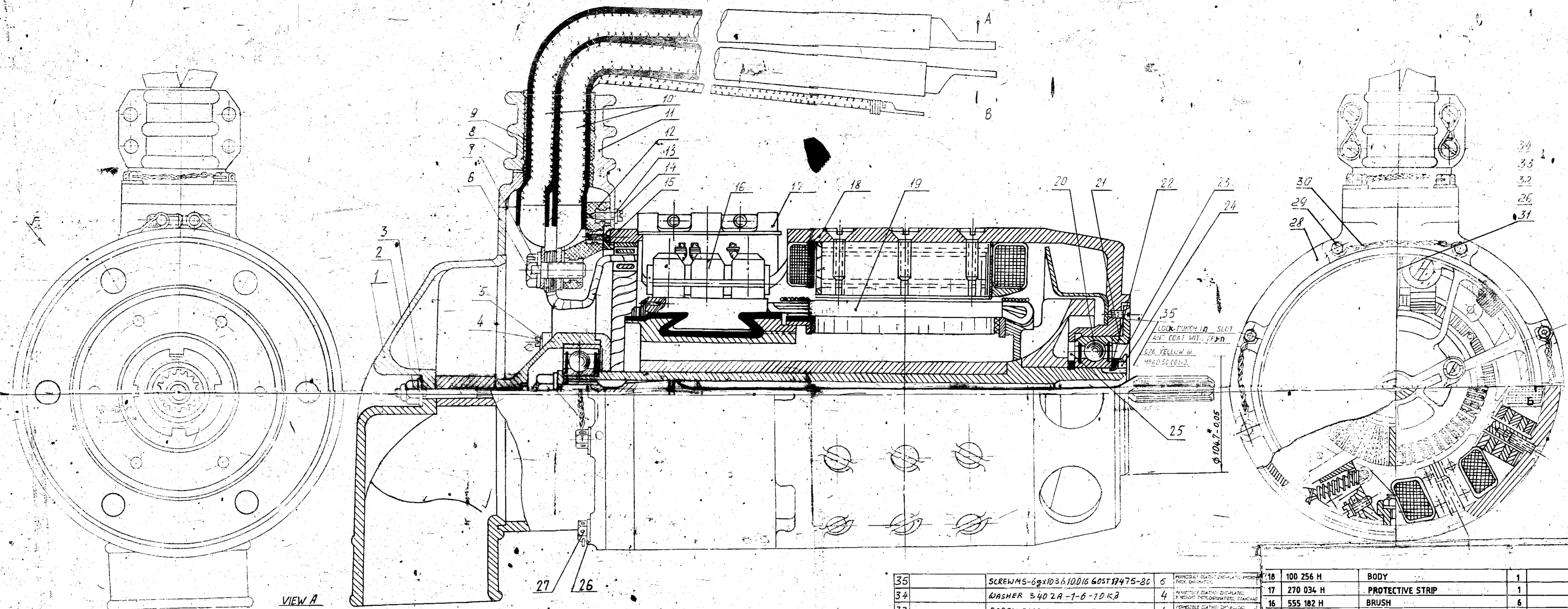


1. Connection diagram is drawing no. 040.013 HDM.
2. Permissible run-out of commutator should not exceed 0,05mm.
3. Coat the surface marked with "X" using  $\rho_{\text{ЭП}} - 076$ , yellow III H8A0.001-3.
4. Place washers 491.430 Hy of fan 'insitu' when adjusting the position of brushes on commutator.
5. Axial end play of armature should be at least 0,02 mm and should not exceed 0,35mm.
6. Secure wire ends of generator in such a way that while covering packing and transferring, the packaging film is not punctured.

7. Before installing structure apply a thin layer of lubricant of the same grade which is used in ball-bearing, on locating surface for ball-bearings in body, endframe as well as on shaft and ball-bearing butt-ends.
8. Run-out of external diameter of flexible of shaft teeth with respect to body locating diameter  $\phi 104.7-0.05$  should not exceed 0,6mm.
9. \*Dimensions 15: given for reference Stamp "+", "-" and "W" on lugs of cable leads in compliance with connection diagrams and views B and A.

10. Primersn-076 may be absent at places where lubricant is applied after preservation.
11. Mark conventional number with type  $\rho_{\text{ЭП}} - 076$  2930-62 to depth of at least 0,5mm, distance between symbols should be up to 2,5mm.
12. Place of TID stamp.



No.	DESIGNATION	DESCRIPTION	QTY	REMARKS
35	SCREWS-6x103.610016 GOST17475-80	PERMISSIBLE COATING ZINC PLATED 9 MICRONS THICK CHROMATIZED STANDARD	6	
34	WASHER 340 2A-1-6-70 K2	PERMISSIBLE COATING ZINC PLATED 9 MICRONS THICK CHROMATIZED STANDARD	4	
33	SCREW 316 2A-6-34-K2	PERMISSIBLE COATING ZINC PLATED 9 MICRONS THICK CHROMATIZED STANDARD	4	
32	466.091H	BOLT	4	
31	893.253H	INSULATING GASKET	1	
30	002.145H-1	BRASS 163 $\phi 0,8$ GOST1066-75	1	
29	466.088H	BOLT	2	
28	120.209H	END FRAME SHIELD	1	
27	466.090H	BOLT	6	
26	WASHER 340 2A-1-5-8 K2	PERMISSIBLE COATING ZINC PLATED 9 MICRONS THICK CHROMATIZED STANDARD	12	
25	481.430H	WASHER	1	AS PER REQUIREMENTS NDT BEKEDIN 6.3
24	471.077H	ROUND NUT	1	
23	483.008H	LOCK WASHER	1	
22	481.738H	WASHER	1	
21	232.220H	FLANGE	1	
20	BALL BEARING 7A 180506 EB T2C1	COMMERCIAL	1	
19	500.155H	ARMATURE ASSY	1	

No.	DESIGNATION	DESCRIPTION	QTY	REMARKS
18	100 256 H	BODY	1	
17	270 034 H	PROTECTIVE STRIP	1	
16	555 182 H	BRUSH	6	
15	GOST 17475-80	SCREW M 4.6gx 836.10 016	2	
14	SCREW 316 2A-4-12K2	PERMISSIBLE COATING ZINC PLATED 9 MICRONS THICK CHROMATIZED STANDARD	2	
13	WASHER 340 2A-1-4-8 K2	PERMISSIBLE COATING ZINC PLATED 9 MICRONS THICK CHROMATIZED STANDARD	2	
12	160 525 H	PANEL	1	
11	303 006 H	NIPPLE	1	
10	700 042 H	LEAD	4	
9	893 343 H	GASKET	1	
8	319 012 H	CLAMP	1	
7	483 095 H	LOCK WASHER	2	
6	466 284 H	BOLT	2	
5	WASHER 340 2A-0-5-4-7 K2	PERMISSIBLE COATING ZINC PLATED 9 MICRONS THICK CHROMATIZED STANDARD	3	
4	462 534 H	SCREW	3	
3	WASHER 340 2A-1-5-8-16 K2	PERMISSIBLE COATING ZINC PLATED 9 MICRONS THICK CHROMATIZED STANDARD	1	
2	SELF LOCKING NUT 3373 A-8 K2	STANDARD	1	
1	151 082 H	CAP	1	

NOTN NO. 0004-83

ISSUE DATE: \_\_\_\_\_

SCALE: 1:1

CONTOUR OF AMENDMENTS: \_\_\_\_\_

CONTROLLER OF INSPECT: \_\_\_\_\_

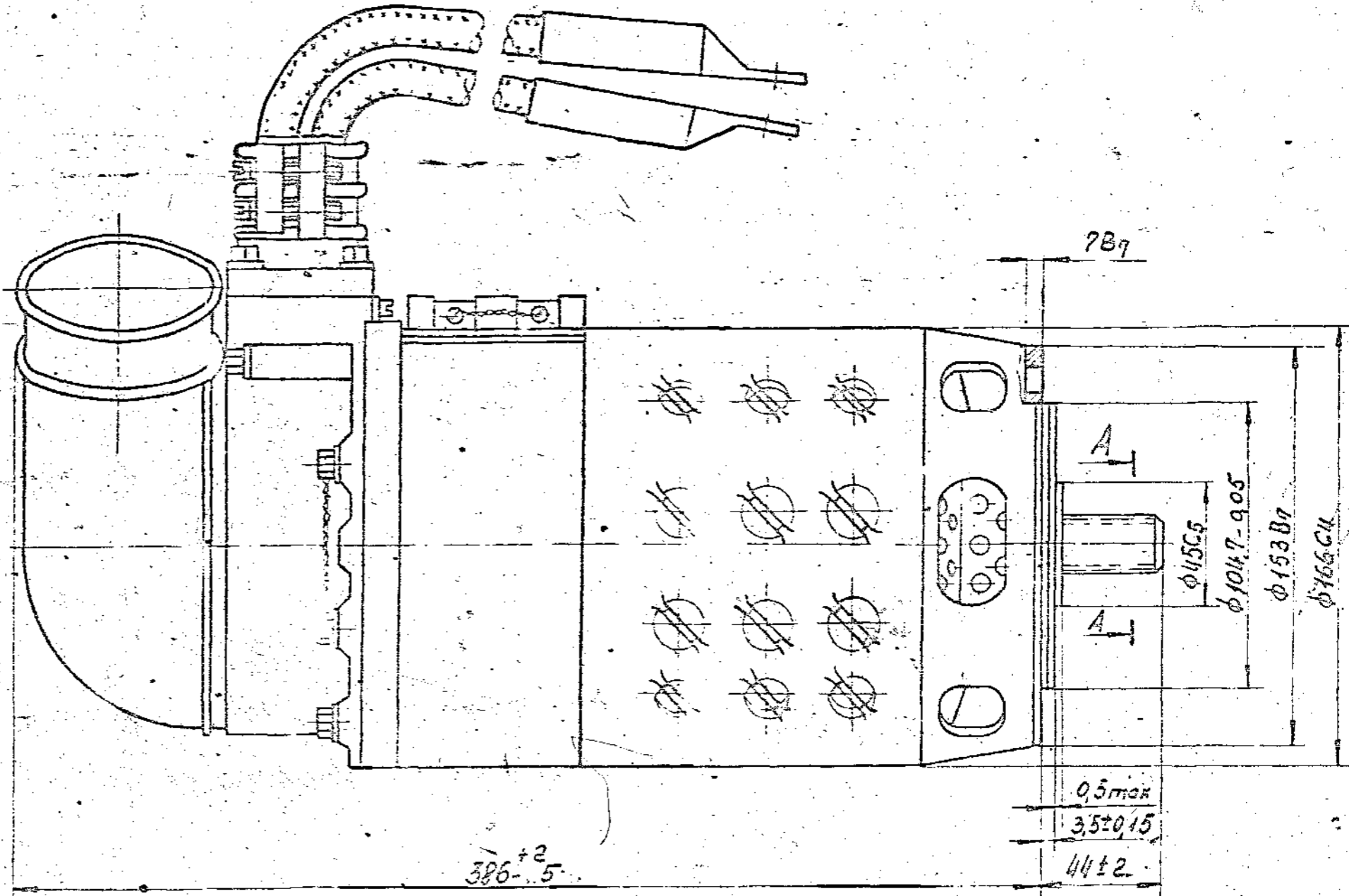
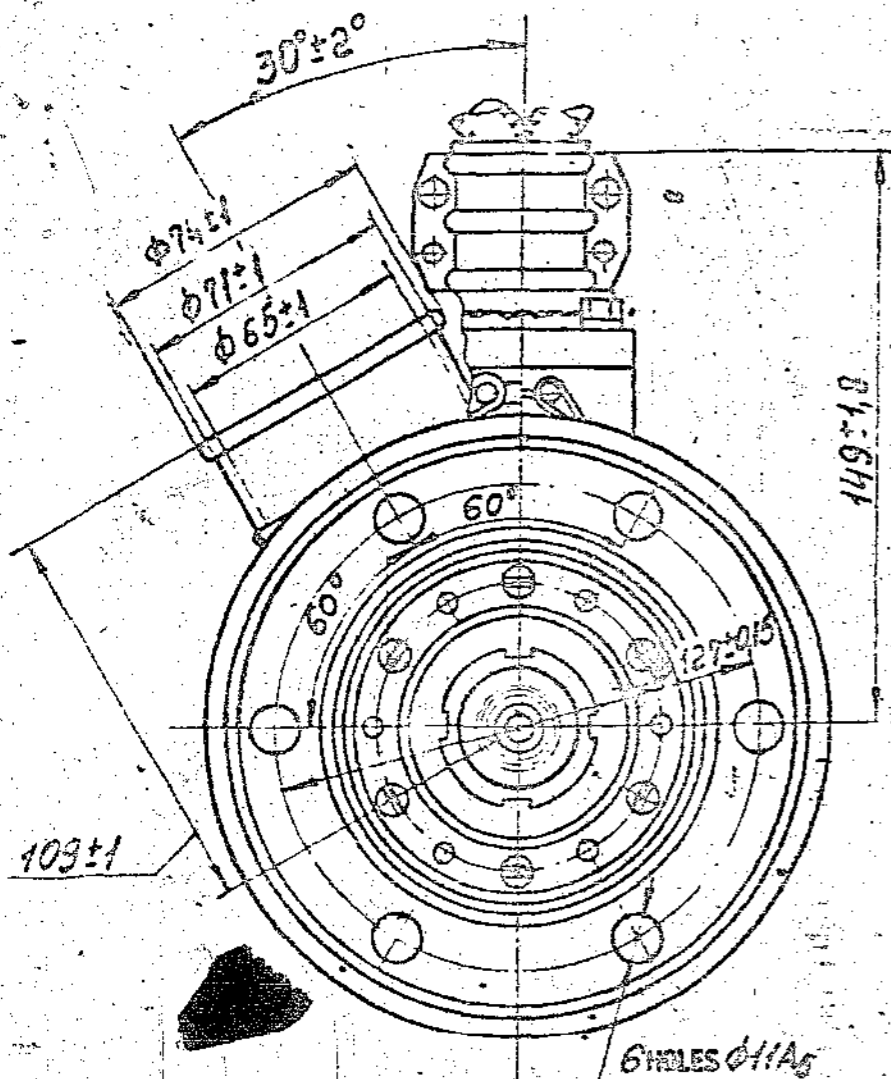
TITLE: GENERATOR BGT500H ASSY

DATE: 9-9-87

002-145 H



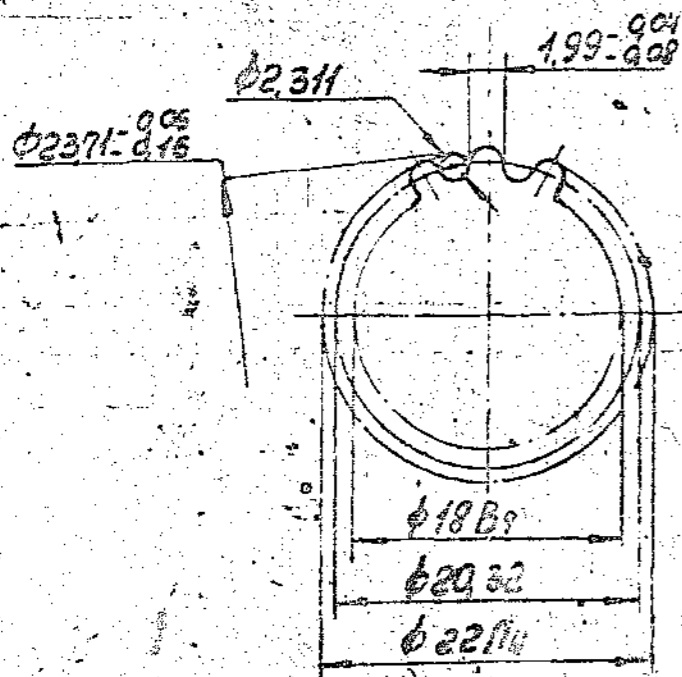
022 043H



A-A  
M2:1

6 HOLES Ø11A5

0.5 max  
35±0.15  
44±2



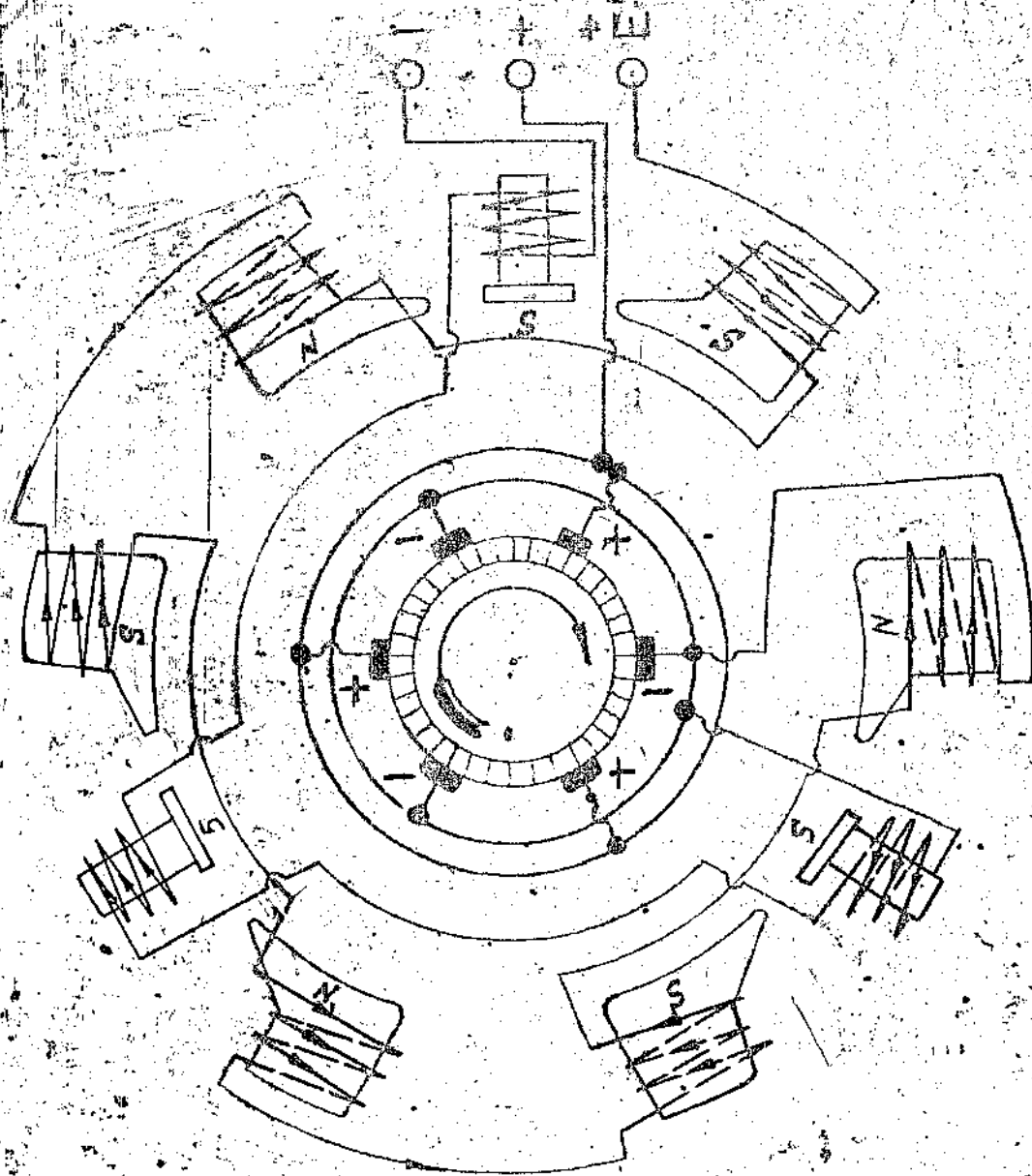
Involute profile.  
Module 1.27/0.846  
Meshing angle 30°  
No. of splines 16.

PROT. SAMPLE SHOULD BE APPROVED BY A M S P BEFORE BOLA PRODUCTION

ISSUE	DATE	NATURE OF AMENDMENTS	EST. MASS 24.5 Kg	TO BE STAMPED OR MARKED WHERE INDICATED THIS # (LETTERS)
DRN	08/07	SCALE: 1:2		
CHD	08/07	DIMENSIONS IN mm		
TCD	08/07	TOLERANCE ON DIMS UNLESS OTHERWISE STATED		
APPO	08/07	ALL THREADS CONFORM TO		
DATE	9-9-07			
			MATERIAL :-	USED ON :-
			CONTROLLERATE OF INSPECTION(HEAVY VEHICLES) AVADI	
			TITLE: OVER-ALL MOUNTING DIMENSIONS	
			D S CAT NUMBER	DRAWING NUMBER
				022-043H

16

040.013HCXII



\*\* GENERATOR BГ 7500 H

17

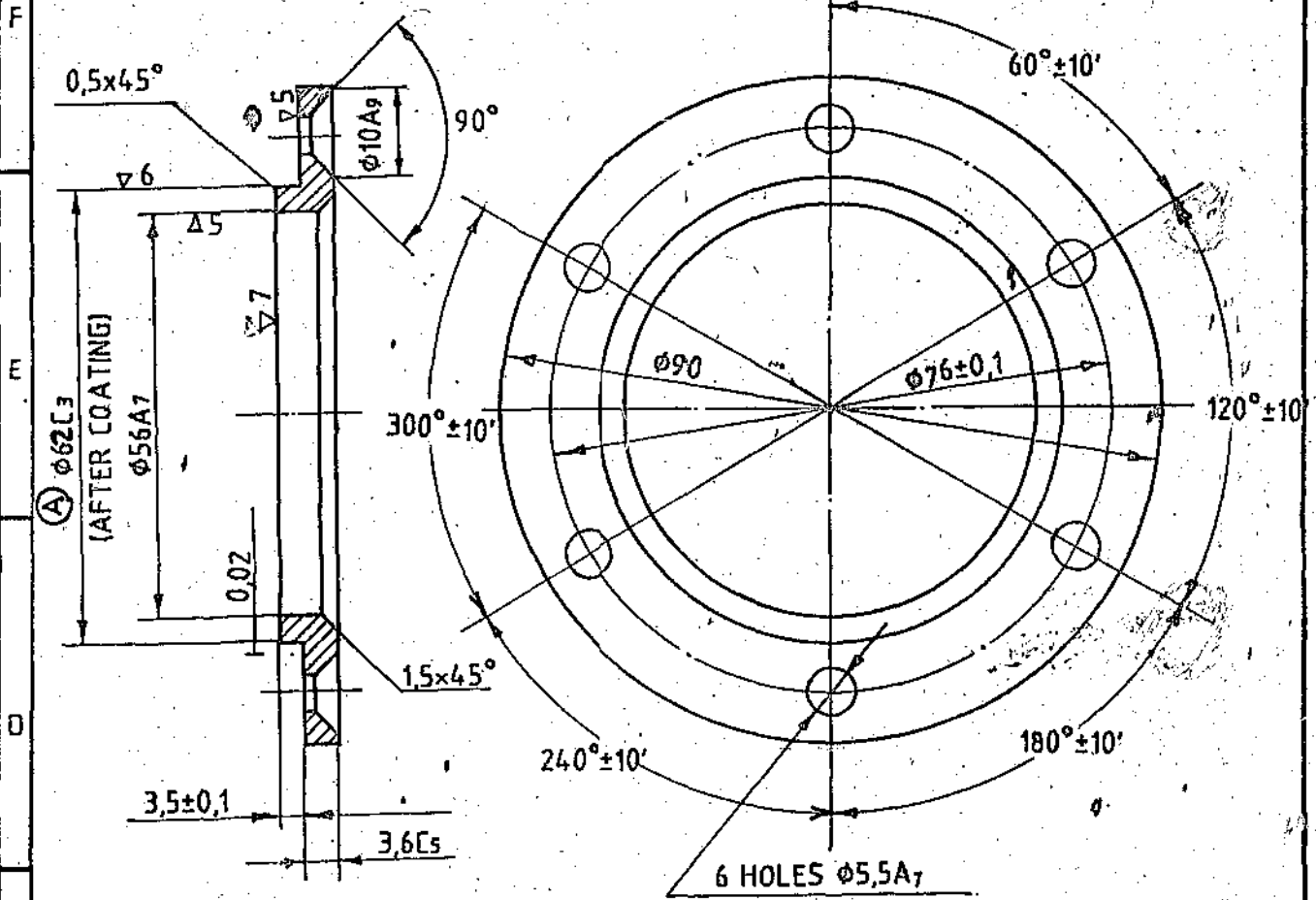
PROT SAMPLE SHOULD BE APPROVED BY A DESK BEFORE BULK PRODUCTION

		EST. MASS	TO BE STAMPED OR MARKED WHEN INDICATED THIS BY
			LETTERS
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNER TO HAVE R OUTSIDE R INSIDE EQUIVALENT THAMERS ARE PERMISSIBLE	
ISSUE	DATE	NATURE OF AMENDMENTS	MATERIAL
DRW	01.07.07	SCALE:--	USED ON 002.145 H
CHK	01.07.07	DIMENSIONS IN mm	CONTROL RATE OF INSPECTION (HEAVY VEHICLES) AVADI
TCO	01.07.07	TOLERANCE ON DIMS UNLESS OTHERWISE STATED	TITLE: CONNECTION SKETCH (VIEW FROM Commutator side) **H
APPD	01.07.07	ALL THREADS TO CONFORM TO	D/S CAT NUMBER
DATE	7.10.07		DRAWING NUMBER 040.013HCXII



DRAWING NUMBER  
232-220 H

▽ 4--UNLESS STATED OTHERWISE



- 1) TOLERANCE FOR FREE DIMENSIONS ARE AS PER 22 AT - 52 AND CLASS 7.
- 3) COATING: ZINC-PLATING, 21 MICRONS THICK, CHROMATIZATION.

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

AMDT No: 0020-79

0  
03

		EST. MASS.	TO BE STAMPED OR MARKED WHERE INDICATED THUS ( LETTERS)
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT-SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.	
A 11-12-58 AUTHY. LT. No. 93833 / IND-III / 415		MATERIAL: STEEL 45 GOST 1050-74	USED ON: 002-145 H
ISSUE DATE	NATURE OF AMENDMENTS	CONTROLLERATE OF INSPECTION (HEAVY VEHICLES) AVADI	
DRN	SCALE - 1:1		
CHD	DIMENSIONS IN mm	TITLE:- FLANGE	
TCD	TOLERANCE ON DIMENSIONS UNLESS OTHERWISE STATED.		
APPD	ALL THREADS CONFORM TO	D S CAT NUMBER	DRAWING NUMBER
DATE			232-220 H
SIZE A4			

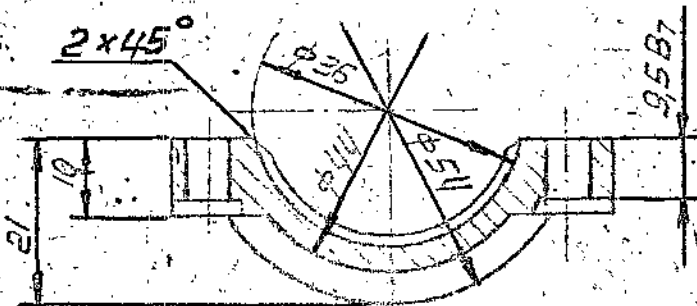
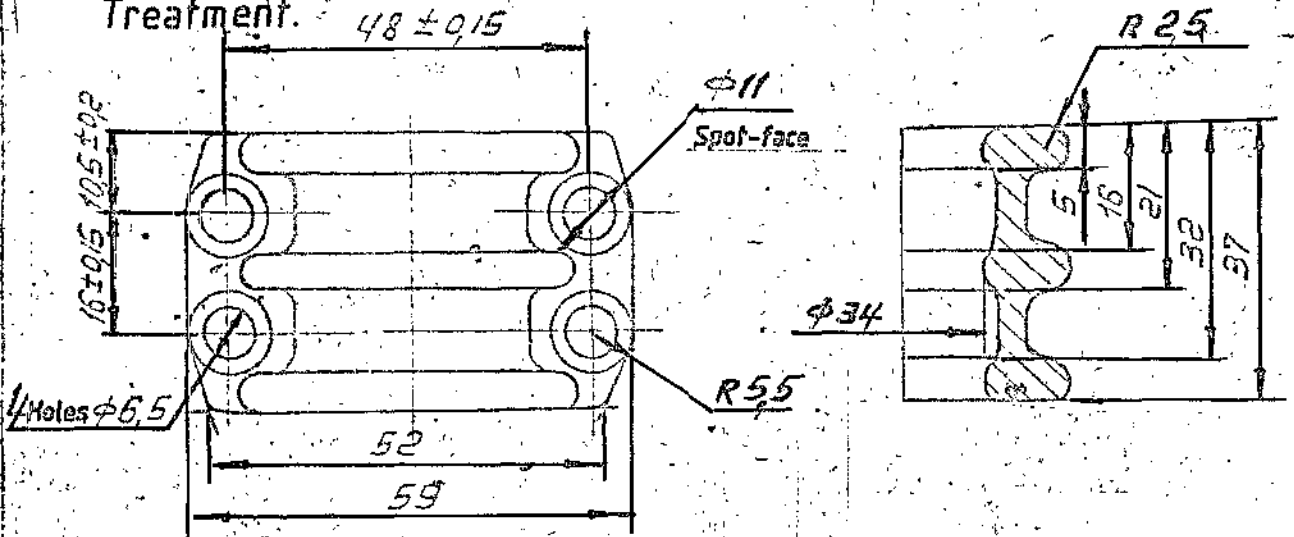
59



319-012 H

2

1. Tolerances for casting as per Class 5 of standards 56-15
2. Carryout machining as per condition T-5 GOST 2685-75.
3. Pattern taper should be 2°.
4. Unspecified casting radii should be R 1,5 mm.
6. Technical requirements for casting areas per OST 190021-71 group-3.
7. Coat external surface with "Hammered" grey enamel as per instruction TM 3-47 except for spot-facings.
8. Part may be made by pressure die casting without Heat-Treatment.



ALLUMINUM ALLOY AS19  
GOST 2685-75

Coating - Anodic oxidation, chromatization

D-83

PILOT SAMPLE SHOULD BE APPROVED BY ANBP BEFORE BULK PRODUCTION

		EST. MASS 0.045 Kg	TO BE STAMPED OR INDICATED THUS  LETTERS )	65
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNER TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE		
ISSUE	DATE	NATURE OF AMENDMENTS		
DRN	SCALE:- 1:1		MATERIAL - SEE ABOVE	USED ON - 002 145H
DD	DIMENSIONS IN mm		CONTROLLERATE OF INSPECTION (HEAVY VEHICLES) AVADI	
TCO	TOLERANCE ON DIMS UNLESS OTHERWISE STATED		TITLE: CLAMP	
APPD	ALL THREADS TO CONFORM TO		D S CAT NUMBER	DRAWING NUMBER 319 012 H
DATE	9-9-87			

H 4ES 297

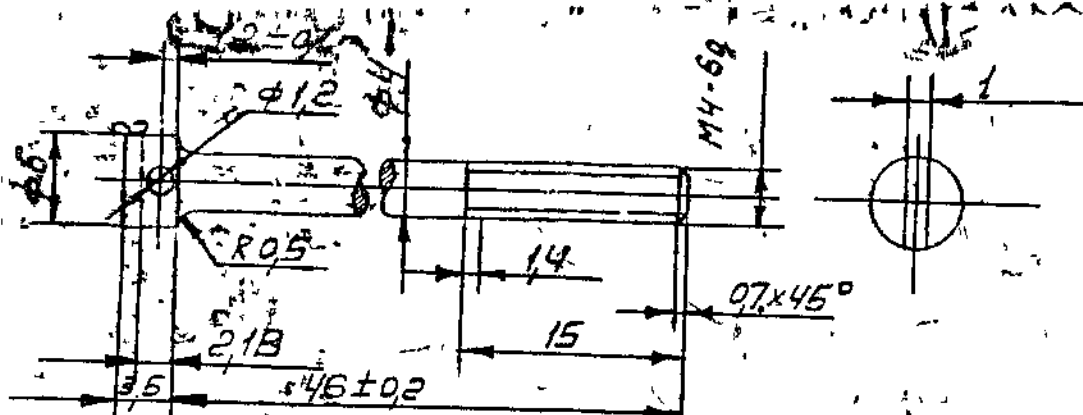
IND

Результат  
Утвержден

Лист 1 из 1  
Эскиз детали  
по ТЗ  
отв. инж. А.В.И.

√ 5 Unless otherwise specified

1. Provide dimensions without deviations as per accuracy class 7, OST 1010.
2. Make screw by heading method with thread rolling.
3. Coating : Zinc-plating 6 microns thick, chromatization



AMDT, NOTN, No: 0111-80

Q-83

002145H

\* STEEL 45 GOST 1051-73  
GOST -7417.-75

X-141

PILOT SAMPLE SHOULD BE APPROVED BY A.H.S.P BEFORE BULK PRODUCTION

73

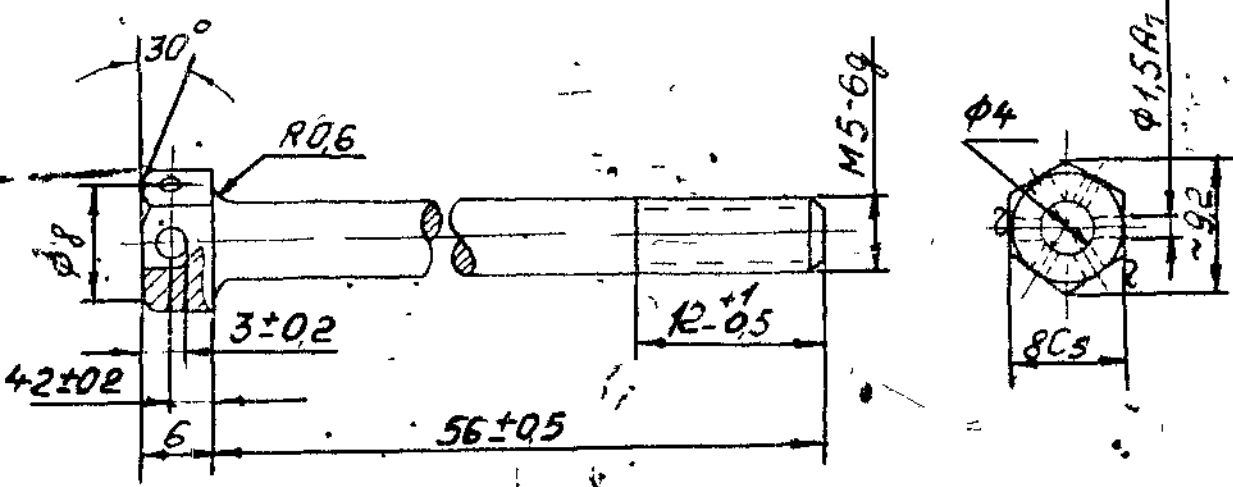
		EST. MASS	TO BE STAMPED OR MARKED WHERE INDICATED THUS
		0.005 Kg	LETTERS I
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE	
ISSUE	DATE	NATURE OF AMENDMENTS	
DRN		SCALE - 2:1	MATERIAL * SEE ABOVE
CHD		DIMENSIONS IN mm	USED ON - 002 145 H
TEC		TOLERANCE ON DIMS UNLESS OTHERWISE STATED	CONTROLLERATE OF INSPECTION (HEAVY VEHICLES) AVADI
APPD		ALL THREADS CONFORM TO	TITLE. SCREW
DATE 9-9-87			D S CAT NUMBER DRAWING NUMBER 462 534 H

H680-997

5 Unless otherwise specified

1. Tolerance for free dimensions are as per accuracy class 7, OST 100.
2. Carry-out heat treatment . HRC 30 to 34 .
3. Coating : Zinc-plating 9 microns thick, chromatization, Dehydrogenate,
4. Elements of thread are as per GOST 10519-80.
5. Alternate material is steel 40 x GOST 4543-71.

NOT No 0189-80



STEEL 30XA TY 14-1-950-74  
GOST 8560-78

PILOT SAMPLE SHOULD BE APPROVED BY A HSP BEFORE BULK PRODUCTION

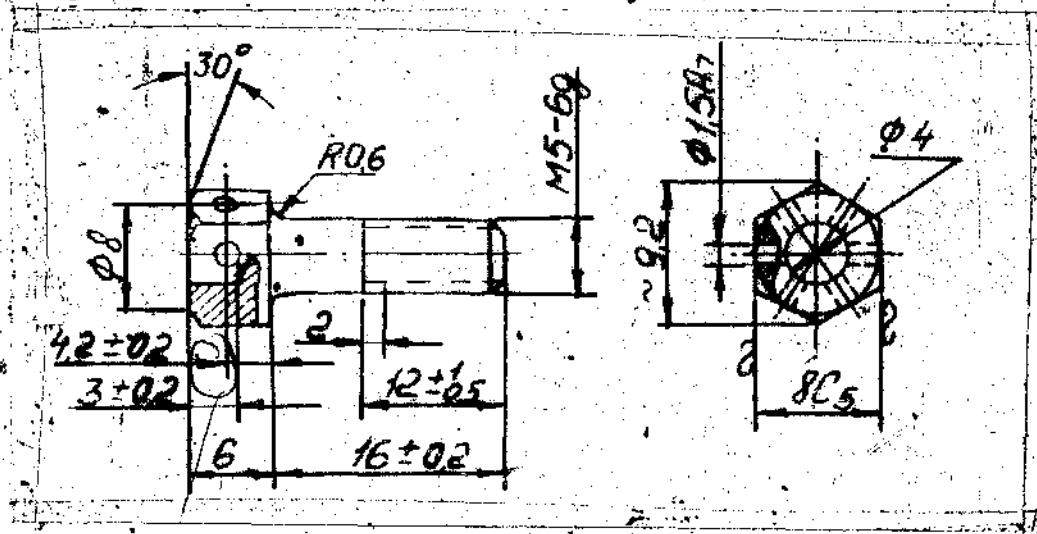
76

		EST. MASS 0-01 Kg	TO BE STAMPED ON MARKED WHERE INDICATED THUS ( LETTERS )
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE. R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE	
ISSUE DATE	NATURE OF AMENDMENTS	MATERIAL	USED ON
DRM	SCALE - 2:1	SEE ABOVE *	002 145H
CHD	DIMENSIONS IN mm	CONTROLLER OF INSPECTION (HEAVY VEHICLES) AVADI	
TCD	TOLERANCE ON DIMS UNLESS OTHERWISE STATED	TITLE BOLT	
APPO	ALL THREADS CONFORM TO	D S CAT NUMBER	DRAWING NUMBER 466.089 H
DATE 9-9-87			

DRAWING NUMBER

466-090 H

▽ 4 UNLESS OTHERWISE STATED



- 1) TOLERANCES FOR FREE DIMENSIONS ARE AS PER ACCURACY CLASS 7, OST 1010.
- 2) CARRY OUT HEAT TREATMENT H R C 30 TO 34.
- 3) COATING: ZINC PLATING, 6 MICRONS THICK, CHROMATIZATION, DEHYDROGENATE.
- 4) THREAD CHAMFER SHOULD BE AS PER GOST 10549-80.
- 5) ALTERNATE MATERIAL IS STEEL 40X, GOST 4543-71.

D  
83

PROT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

EST. MASS.

0,004 Kg

TO BE STAMPED OR MARKED WHERE INDICATED THUS =

LETTERS)

ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT-SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE

MATERIAL:

STEEL 38XA  
TY 14-1-950-74  
GOST 8560-78

USED ON:

002-145.H

ISSUE DATE: NATURE OF AMENDMENTS

DRN SCALE: 2:1

CONTROLLERATE OF INSPECTION (HEAVY VEHICLES)

CHD DIMENSIONS IN mm

BY ADI

FOR THE USE OF DIMENSIONS

OTHERWISE

ALL DIMENSIONS

UNLESS OTHERWISE STATED

ALL DIMENSIONS

UNLESS OTHERWISE STATED

ALL DIMENSIONS

UNLESS OTHERWISE STATED

9-9-87

D S CAT

BOLT

DRAWING NUMBER

466-090 H

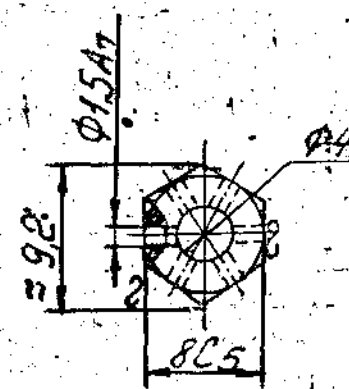
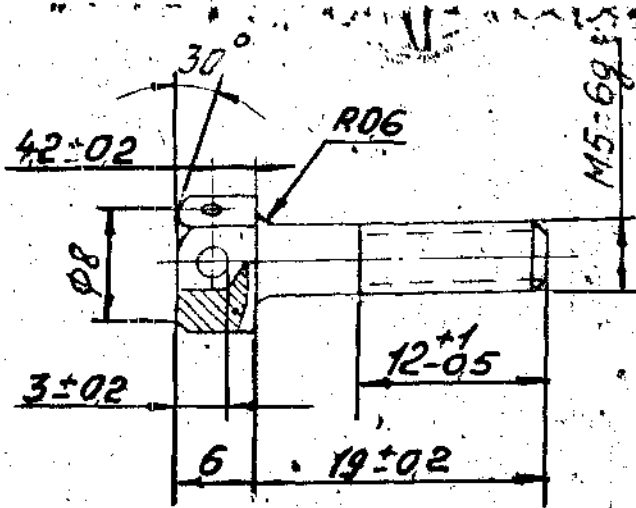
H160 994

▽5 UNLESS OTHERWISE SPECIFIED

1. TOLERANCE FOR FREE DIMENSIONS ARE AS PER ACCURACY CLASS 7, OST 1010.
  2. CARRY-OUT HEAT TREATMENT. HRC 30 TO 34.
  3. THREAD RUN-OUT SHOULD BE AS PER GOCT 10549-80.
  4. DEHYDROGENATE.
  5. THREAD CHAMFER SHOULD BE AS PER GOCT 10549-80.
  6. ALTERNATE MATERIAL IS STEEL 40X GOCT 4543-71.
- COATING: ZINC-PLATING, 6 MICRONS THICK, CHROMATIZATION.

NOT. No. 0189-80

X14.47  
64



\* STEEL 30XA TY 14-1-950-74.  
GOST 8560-78

*Techn. M...*

7.8

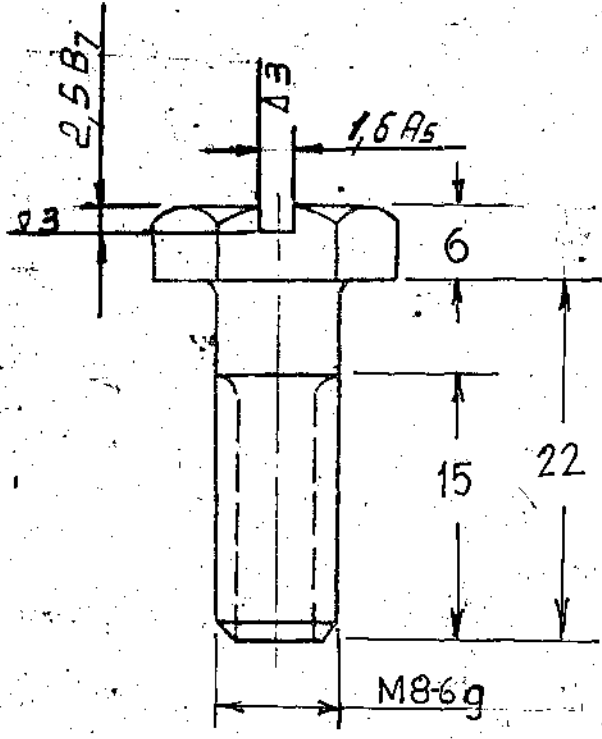
PILOT SAMPLE SHOULD BE APPROVED BY AHS P BEFORE BULK PRODUCTION

		EST. MASS <b>0.005 Kg</b>	TO BE STAMPED OR MARKED WHERE INDICATED THUS (LETTERS)
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT. CHAMFERS ARE PERMISSIBLE	
SS JE	DATE	NATURE OF AMENDMENTS	MATERIAL - <b>SEE ABOVE</b> * USED ON - <b>002/45H</b>
DRN	<i>[Signature]</i>	SCALE:- <b>2:1</b>	CONTROLLERATE OF INSPECTION(HEAVY VEHICLES) AVADI
CHD	<i>[Signature]</i>	DIMENSIONS IN mm	<b>BOLT</b>
TCD	<i>[Signature]</i>	TOLERANCE ON DIMS UNLESS OTHERWISE STATED	DRAWING NUMBER <b>466.091 H</b>
APPD	<i>[Signature]</i>	ALL THREADS CONFORM TO	
DATE	<b>9-9-87</b>		

466.284 H

IND

141  
65



Coating: Zinc-plating, 9 microns thick, chromatization.

Material: Steel Grade 45 to GOST 1050-74

0-83

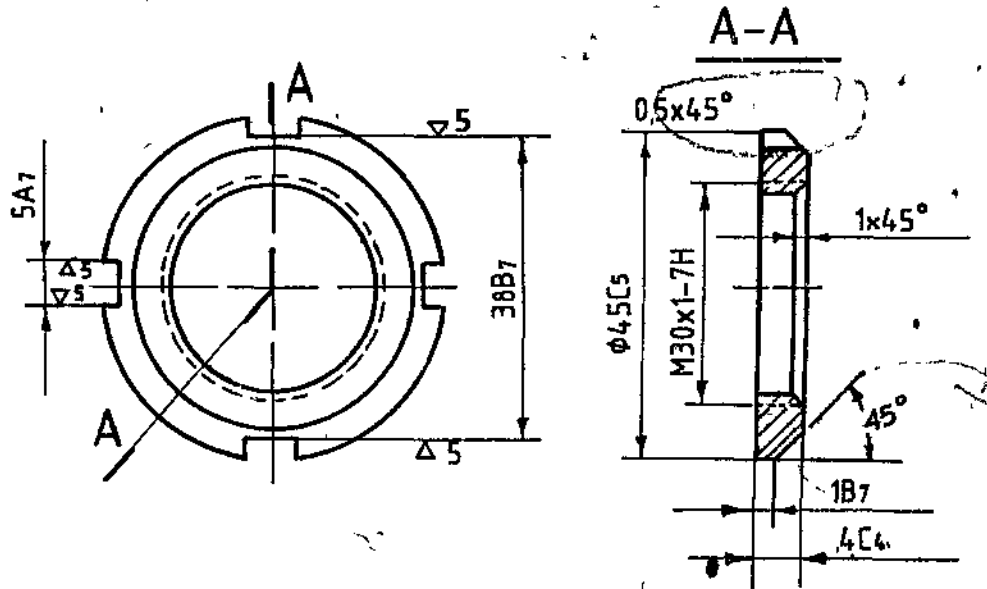
PILOT SAMPLE SHOULD BE APPROVED BY AHSF BEFORE BULK PRODUCTION

		EST. MASS 0.015 Kg	TO BE STAMPED (AS INDICATED THIS IS LETTERS)
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNER TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE	
ISSUE	DATE	NATURE OF AMENDMENTS	
DNN	18	SCALE: 2:1	MATERIAL: SEE TITLE USED ON: 002-145 H
CND	18	DIMENSIONS IN mm	CONTROLLER OF INSPECTION (HEAVY VEHICLES) AVADI
TCD	18	TOLERANCE ON DIMS UNLESS OTHERWISE STATED	TITLE: BOLT BLANK STANDARD 300 1A 8-22-5 TI (WITHOUT COATING)
APD	18	ALL THREADS TO CONFORM TO	D/S CAT NUMBER DRAWING NUMBER
DATE	9-9-87		466.284 H

DRAWING NUMBER

471-077 H

▽ 6 UNLESS OTHERWISE SPECIFIED



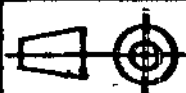
- 1) PERMISSIBLE END PLAY FROM CHAMFER SIDE WITH RESPECT TO THREAD SHOULD NOT EXCEED 0,08mm OVER  $\phi$  35mm
- 2) COATING. ZINC-PLATING, 6 MICRONS THICK CHROMATIZATION

AMDT No 0111-80

D  
83

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

		EST. MASS 0,0304 Kg	TO BE STAMPED OR MARKED WHERE INDICATED THUS # ( LETTERS)
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT-SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE	
		MATERIAL: STEEL 45 GOST 1050-74	USED ON: 002-145 H (79)
ISSUE	DATE	NATURE OF AMENDMENTS	
DRN		SCALE - 1 1	
CHD		DIMENSIONS IN mm	
TEC		TOLERANCE ON DIMENSIONS UNLESS OTHERWISE STATED.	
APPD		ALL THREADS CONFORM TO	
DATE	9-9-07		
SIZE A4			
		D S CAT NUMBER	DRAWING NUMBER 471-077 H



TITLE:-

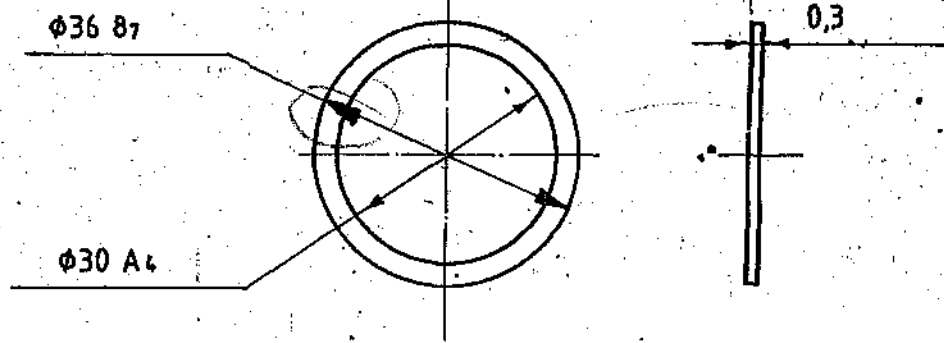
ROUND NUT

DRAWING NUMBER

481-430 H

2

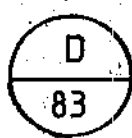
F  
E  
D  
C



DEHYDROGENATE

COATING: ZINC-PLATING, 9 MICRONS THICK,  
CHROMATIZATION.

AMDT No 0057-82

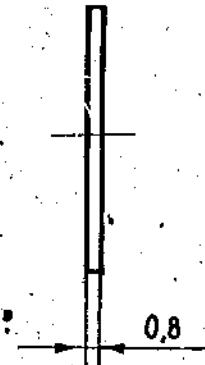
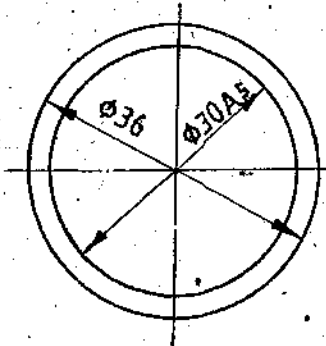


PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

			EST. MASS.	TO BE STAMPED OR MARKED WHERE INDICATED THUS ≡
			0,0008 Kg	( LETTERS)
			ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT-SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.	
			MATERIAL:	USED ON:
			STRIP C-H-0,3x40	002-145 H
			GOST 2283-79	(85)
ISSUE	DATE	NATURE OF AMENDMENTS	CONTROLLERATE OF INSPECTION (HEAVY VEHICLES)	
DRN		SCALE - 1 : 1	AVADI	
CHD		DIMENSIONS IN mm	TITLE: WASHER	
TCD		TOLERANCE ON DIMENSIONS UNLESS OTHERWISE STATED.	D S CAT. NUMBER	
APPD		ALL THREADS CONFORM TO	DRAWING NUMBER	
DATE			481-430 H	
9-9-87				
SIZE A4				

DRAWING NUMBER

481-738 H

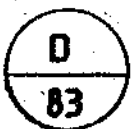


1) TOLERANCE FOR FREE DIMENSIONS ARE AS PER 22A T 52

2) DEHYDROGENATE.

COATING: ZINC-PLATING, 9 MICRONS THICK, CHROMATIZATION.

AMDT No 0020-79



PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

EST. MASS.

0,0024 Kg

TO BE STAMPED OR MARKED WHERE INDICATED THUS #

LETTERS)

ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT-SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

MATERIAL:

SHEET 6 GOST 19904-74  
II - F 10 GOST 16523-70

USED ON:

002-145H

86

ISSUE DATE NATURE OF AMENDMENTS

DRN SCALE - 1:1

CHD DIMENSIONS IN mm

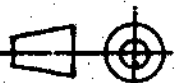
TED TOLERANCE ON DIMENSIONS UNLESS OTHERWISE STATED.

APPD ALL THREADS CONFORM TO

DATE 9-9-87

SIZE A4

CONTROLLERATE OF INSPECTION (HEAVY VEHICLES) AVADI



TITLE:-

WASHER

D S CAT NUMBER

DRAWING NUMBER

481-738 H

483.008 H

IND

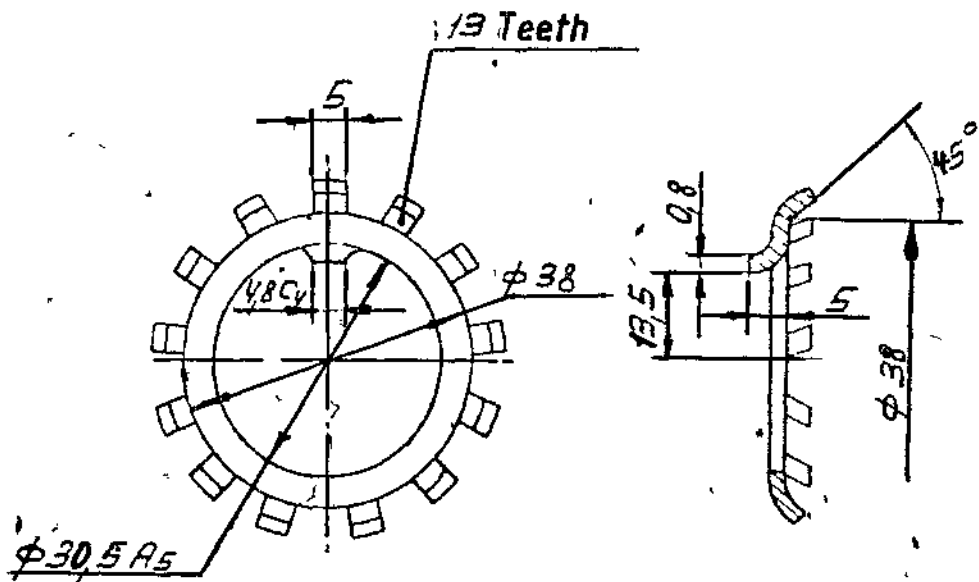
Period

Универс

He...  
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...  
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124  
75

1. Tolerances for free dimensions are as per accuracy class 7, OST 1010.
2. Dehydrogenate
3. Diameter of reamer is  $\phi 49.4$  mm



Coating : Zinc-plated, 12 microns thick chromated.

\*  
SHEET 6 GOST 19904 -74  
II Г10 GOST 16523-70

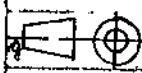
NUT. NO. 0040-79

124  
75

124  
75

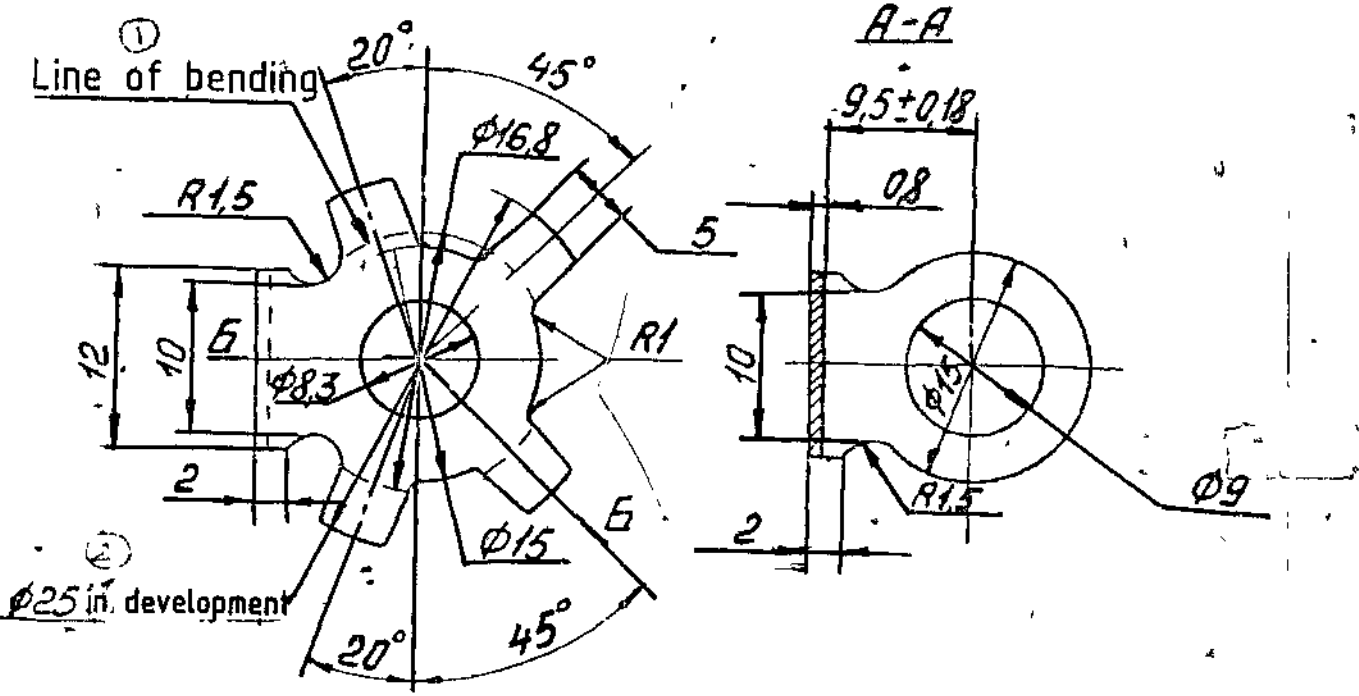
87

PILOT SAMPLE SHOULD BE APPROVED BY A.H.S.P. BEFORE BULK PRODUCTION

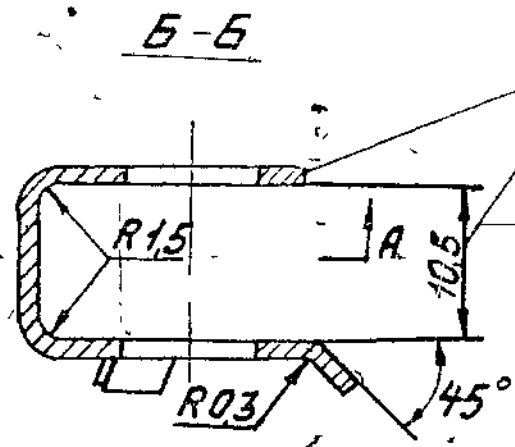
		EST. MASS 0.005 Kg	TO BE STAMPED OR MARKED WHERE INDICATED THUS: (LETTERS)
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED. FACED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PREFERABLE	
ISSUE	DATE	NATURE OF AMENDMENTS	MATERIAL USED: 002 145 H
DRI		SCALE - 1:1	CONTROL RATE OF INSPECTION (HEAVY VEHICLES) AVADI
CHD		DIMENSIONS IN mm	 TITEL LOCK WASHER
TCO		TOLERANCE IN mm UNLESS OTHERWISE STATED	
APPO		ALL THREADS CONFORM TO	D.S. CAT NUMBER
DATE	9-9-87	TO	DRAWING NUMBER 483.008 H

114  
77

- 1) Tolerance for free dimensions are as per accuracy class 7, OST 1010
2. Coating: Zinc-plating, 9 microns thick chromatization
- 3 Dehydrogenate



AMDT, NPTN, No 0020-79



May be spring-backed upto dimension 12

SHEET 114  
~~OST 19704-74~~  
~~OST 16523-70~~

D-83

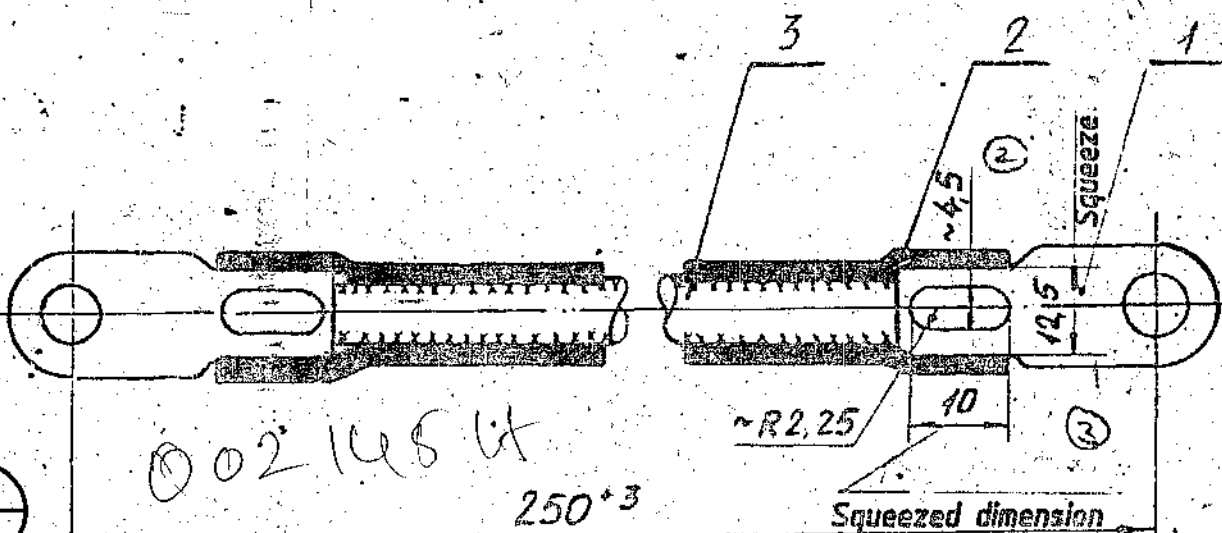
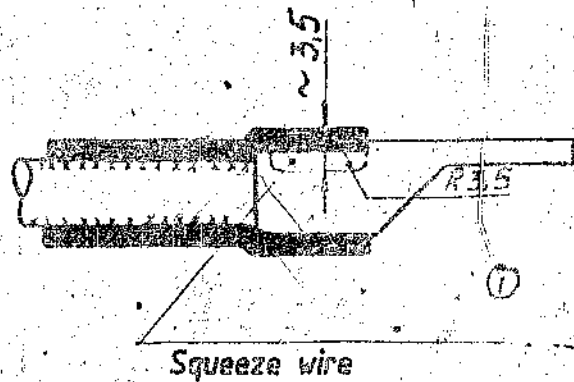
90

PILOT SAMPLE SHOULD BE APPROVED BY AHS P BEFORE BULK PRODUCTION!

		EST. MASS 0.004 Kg	TO BE STAMPED OR MARKED WHERE INDICATED THUS 41 LETTERS )
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHARGERS ARE PERMISSIBLE	
ISS JE	DATE	NATURE OF AMENDMENTS	
DRN		SCALE - 2:1	MATERIAL - * SEE ABOVE
CHD		DIMENSIONS IN mm	USED ON - 002 145 H
TEC		TOLERANCE ON DIMS UNLESS OTHERWISE STATED	CONTROLLERATE OF INSPECTION (HEAVY VEHICLES) AVADI
APPD		ALL THREADS CONFORM TO	⊕ ⊞ TITLE. <b>LOCK WASHER</b>
DATE	9-9-87		D S CAT NUMBER DRAWING NUMBER 483.095 H

700 042H

14  
20



002145 H

250<sup>+3</sup>

AMDT. NOTN. NO: 220-7A 8

03

Sl. no	Designation	Description	QTY	Remarks
3	700.042H-1	Conductor bNB 50mm <sup>2</sup>		
	TY 16.505.911-76		1	Without drawing
2	700.042H-2	Sleeve III-TB-40-230-14-105		
	GOST 19034-73		2	Without drawing
1	712, 199H ✓	Cable lug	2	

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

EST. MASS		TO BE STAMPED OR MARKED WHERE INDICATED THUS ( LETTERS )	
0.155 Kg		(35)	
ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE			
ISSUE DATE	NATURE OF AMENDMENTS	MATERIAL :-	USED ON :- 002-145 H
DRN	SCALE:- 1:1	CONTROLLERATE OF INSPECTION (HEAVY VEHICLES ) AVADI	
CHD	DIMENSIONS IN mm	TITLE: LEAD.	
TCO	TOLERANCE ON DIMNS UNLESS OTHERWISE STATED	D S CAT NUMBER	
APPO	ALL THREADS CONFORM TO	DRAWING NUMBER	
DATE 9-9-87		700 042 H	

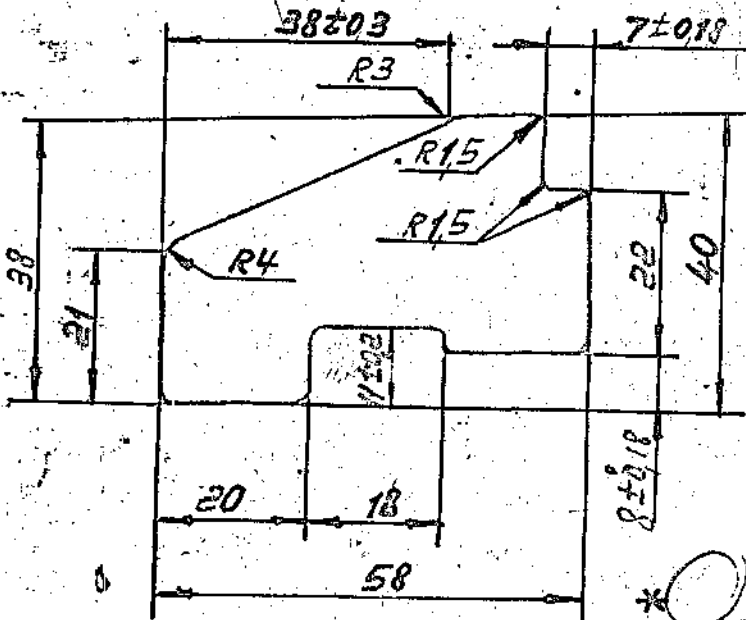
893.253H

NOT. No. 25d-78

Tolerances for free dimensions are as per accuracy Class 7, OST 1010.

Alternate material is glass textolite of grade CT-1 GOST 12652-74.

Apply varnish coating HBA 0028.007.



ELECTRO TECHNICAL TEXTOLITE "A" GOST 2910 -74

with no

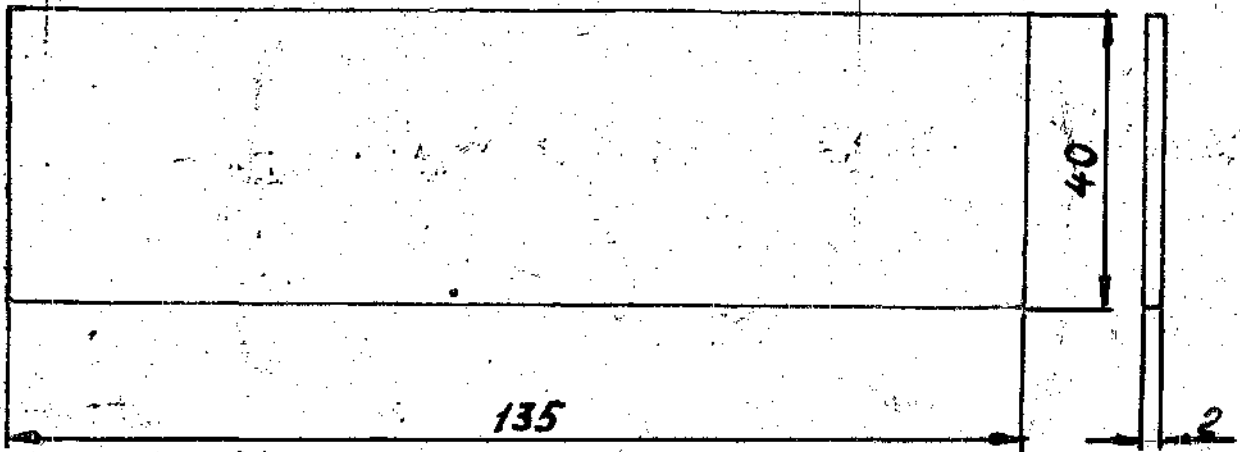
124

PLOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

		EST. MASS 0.003 Kg	TO BE STAMPED OR MARKED WHERE INDICATED THUS $\phi$ (LETTERS)
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE	
ISSUE DATE	NATURE OF AMENDMENTS	MATERIAL :-	USED ON :- 002 145 H
DRN	SCALE:- 1:1	SEE ABOVE *	
CRD	DIMENSIONS IN mm	CONTROLLERATE OF INSPECTION (HEAVY VEHICLES) AVADI	
TEC	TOLERANCE ON DIMNS UNLESS OTHERWISE STATED	TITLE: INSULATION, GASKET	
APPD	ALL THREADS CONFORM TO	D S CAT NUMBER	DRAWING NUMBER
DATE 9-9-07	TO		893.253 H

H E7E-E68

Tolerances for free dimensions are as per accuracy class 7, OST 1010.



\* RUBBER GRADE H068-1  
TY 380051166-73

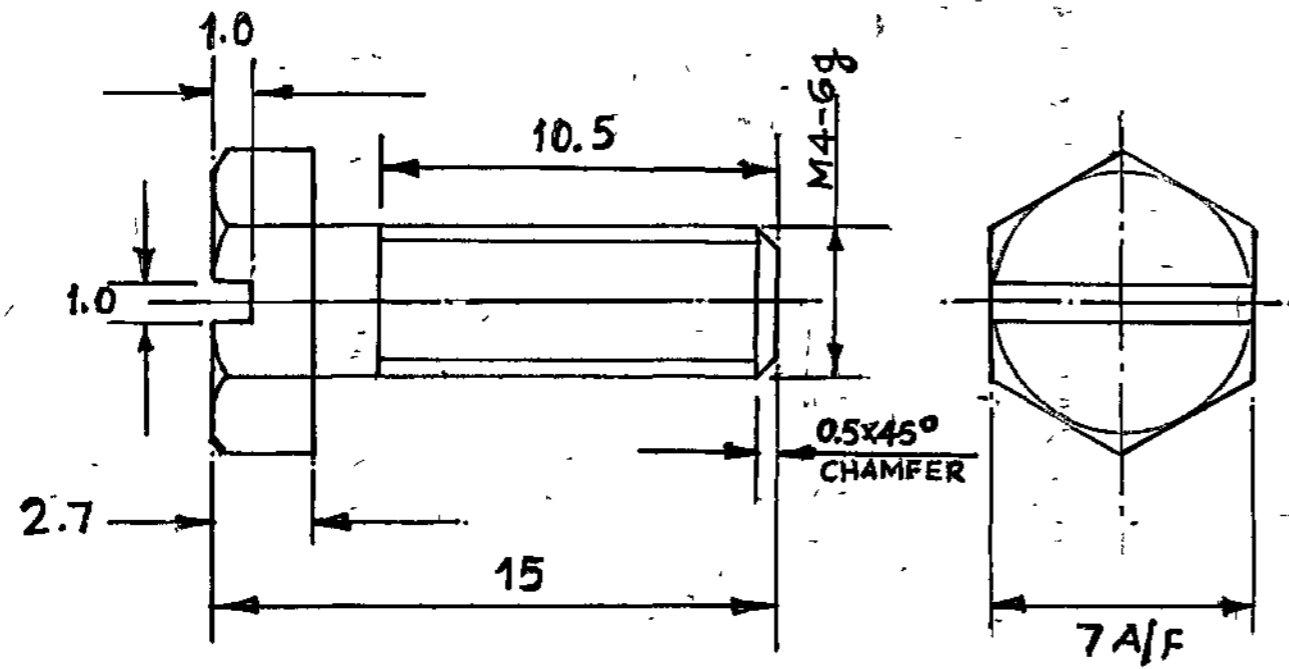
D-83

(A) ALT MATL.: RUBBER GRADE BNC TO SPECN. CQA(HV)/NBR **CR25**

PROT SAMPLE SHOULD BE APPROVED BY AHS P BEFORE BULK PRODUCTION

		EST. MASS <b>0.0216 Kg</b>	TO BE STAMPED ON MARKED WHERE INDICATED THUS (LETTERS)
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R UNLESS EQUIVALENT CHAMFERS ARE PERMISSIBLE	
DATE	26.05.08	Lt. No. TC/GEN/IND-III Dt. 02.04.08	
SS JE		NATURE OF AMENDMENTS	
DRN	B	SCALE: 1:1	MATERIAL * SEE ABOVE
CRD		DIMENSIONS IN mm	USED ON: 002.145 H
TCO	Dongol	TOLERANCE ON DIMS UNLESS OTHERWISE STATED	CONTROLLERATE OF INSPECTION (HEAVY VEHICLES) AVADI
APPO		ALL THREADS CONFORM TO	TITLE: <b>GASKET</b>
DATE	9-9-87		D S CAT NUMBER
			DRAWING NUMBER <b>893.343 H</b>

DRAWING NUMBER  
3240A-4-12KA



**EXPLANATORY NOTE:-**

**MATERIAL QUOTED:-** STEEL 40 GOST 1050-74

40 = GRADE OF STEEL

**CHEMICAL COMPOSITION:-**

CARBON	= 0.37-0.45	
SILICON	= 0.17-0.37	
MANGANESE	= 0.50-0.80	
CHROMIUM	= 0.25	} MAX
PHOSPHORUS	= 0.035	
SULPHUR	= 0.040	
COPPER	= 0.025	
NICKEL	= 0.25	

**MECHANICAL PROPERTIES.**

ULTIMATE TENSILE STRENGTH	kgf/mm <sup>2</sup> = 58 (min)
YIELD POINT	kgf/mm <sup>2</sup> = 34 (min)
ELONGATION %	= 19 (min)
REDUCTION IN AREA %	= 45 (min)
IMPACT STRENGTH	kgf/cm <sup>2</sup> = 6 (min)

1. COATING: ZINC PLATING, 6 MICRONS THICK, CHROMATISATION.

EXPLANATORY NOTE ADDED ON 27-3-92

G  
132

PLOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

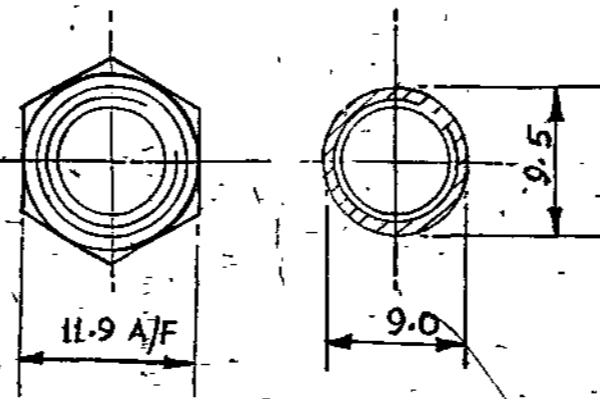
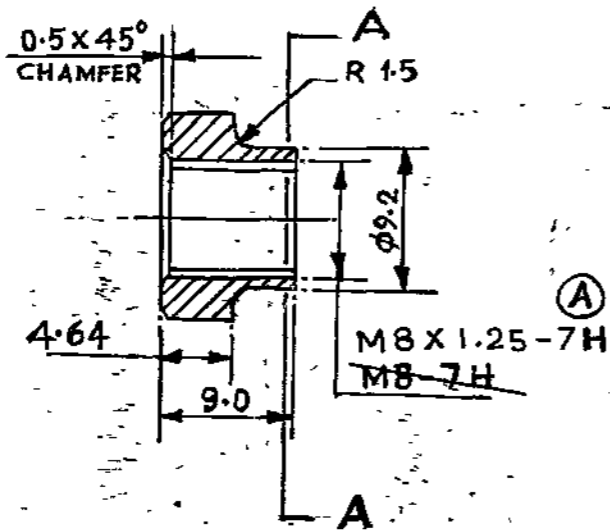
EST. WT. TO BE STAMPED OR MARKED WHERE INDICATED THUS # ( LETTERS)

ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT SIDE INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

DRN	<i>Premdas</i>	MATERIAL:- STEEL 40	USED ON SPTA ITEM
CHKD	<i>Premdas</i>	GOST 1050-74	100 - 256 H
TEC	<i>Premdas</i>	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)	
APPD	<i>Premdas</i>	AVADI	
DATE	17-12-90	TITLE	
SCALE:-	5:1	SCREW	
DIMENSIONS IN mm		D S CAT NUMBER	
TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS 2102-69		DRAWING NUMBER	
ALL THREADS TO CONFORM TO		3240A-4-12 KA	
ISSUE DATE	NATURE OF AMENDMENTS		

SIZE - A3

DRAWING NUMBER  
**3373A-8KA**



**SECTION A-A**

**EXPLANATORY NOTE:-**

**MATERIAL QUOTED:** HIGH QUALITY STEEL  
38XA GOST 4543-71.

**CHEMICAL COMPOSITION %**

CARBON	= 0.35 - 0.42	} MAXIMUM
SILICON	= 0.17 - 0.37	
MANGANESE	= 0.50 - 0.80	
CHROMIUM	= 0.80 - 1.10	
PHOSPHORUS	= 0.025	
SULPHUR	= 0.025	
COPPER	= 0.30	
NICKEL	= 0.30	

**MECHANICAL PROPERTIES:-**

ULTIMATE STRENGTH	kgf/mm <sup>2</sup> (min) = 95
YIELD POINT	kgf/mm <sup>2</sup> (min) = 80
RELATIVE ELONGATION %	(min) = 12
RELATIVE REDUCTION ALONG	
CROSS SECTION %	(min) = 50
IMPACT STRENGTH	kgf/cm <sup>2</sup> (min) = 9

**COATING: CADMIUM PLATED, 9 MICRONS THICK, OILED.**

G (133)

EXPLANATORY NOTE ADDED ON 2-4-92

PLOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

EST. WT. TO BE STAMPED OR MARKED WHERE INDICATED THIS # ( LETTERS)

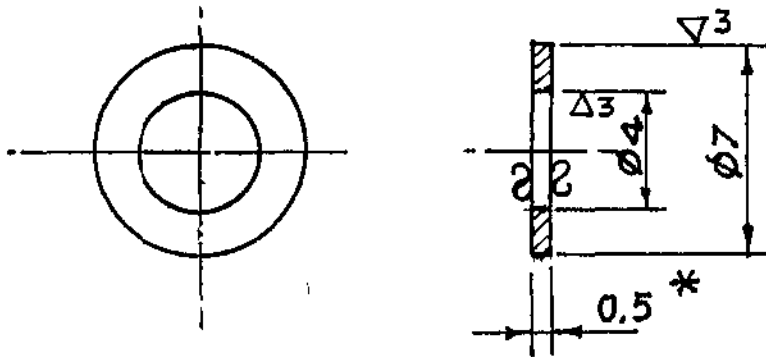
ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

DRN	<i>[Signature]</i>	MATERIAL:- STEEL	USED ON SPTA ITEM
CHK	<i>[Signature]</i>	38XA-GOST4543-71	002-145 H
TEO	<i>[Signature]</i>	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)	
APPO	<i>[Signature]</i>	AVADI	
DATE	17-12-90	TITLE - SELF LOCKING NUT	
SCALE:-	2:1	D#S CAT NUMBER	
DIMENSIONS IN mm TOLERANCE ON DIMS UNLESS OTHERWISE STATED IS:2102-69		DRAWING NUMBER	
ALL THREADS TO CONFORM TO		3373A-8KA	
ISSUE DATE	NATURE OF AMENDMENTS		

A	18.4.02	AUTHY LT. No: 10023 / IND-III / 506 dt. 17-4-02
ISSUE DATE	NATURE OF AMENDMENTS	

SIZE A3

DRAWING NUMBER  
3402A-0.5-4-7Kd



NOTE :-

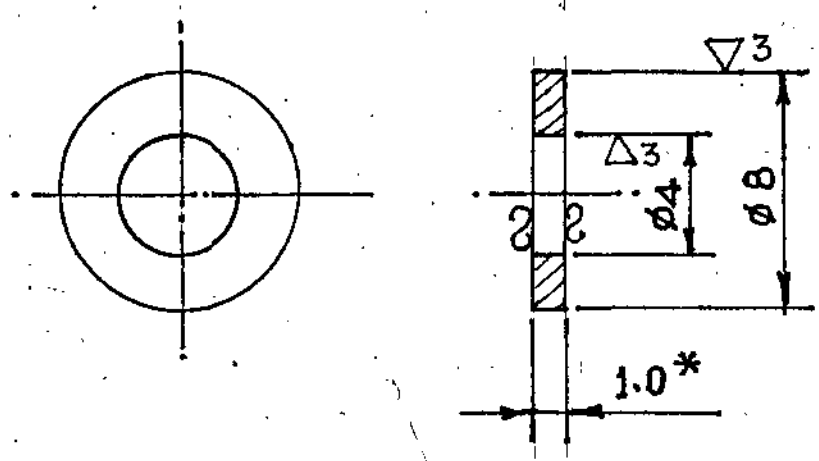
1. COATING: OXIDIZING
2. \*TOLERANCE ON THE DIMENSION IS EQUAL TO THE TOLERANCE ON THE THICKNESS OF DELIVERED MATERIAL.

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION.

			EST. WT.	TO BE STAMPED OR MARKED WHERE INDICATED THUS # ( LETTERS)
			ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.	
			MATERIAL:- STEEL GDE 10 TO GOST 1050-74	USED ON GENERATOR, UTD-20 002-145 H
ISSUE	DATE	NATURE OF AMENDMENTS		
DRN		SCALE:- 4:1		
CHD		DIMENSIONS IN mm		
TCD		CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI.		
APPD		TOLERANCE ON DIMENSIONS UNLESS OTHERWISE STATED IS 2102 -69		TITLE <b>WASHER</b>
DATE	26-11-98	ALL THREADS CONFORM TO	D S CAT NUMBER	DRAWING NUMBER 3402A-0.5-4-7Kd

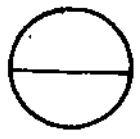
G  
140

DRAWING NUMBER  
3402A-1-4-8 Kd



NOTE:-

1. COATING : OXIDIZING.
- 2.\* TOLERANCE ON THE DIMENSION IS EQUAL TO THE TOLERANCE ON THE THICKNESS OF DELIVERED MATERIAL.

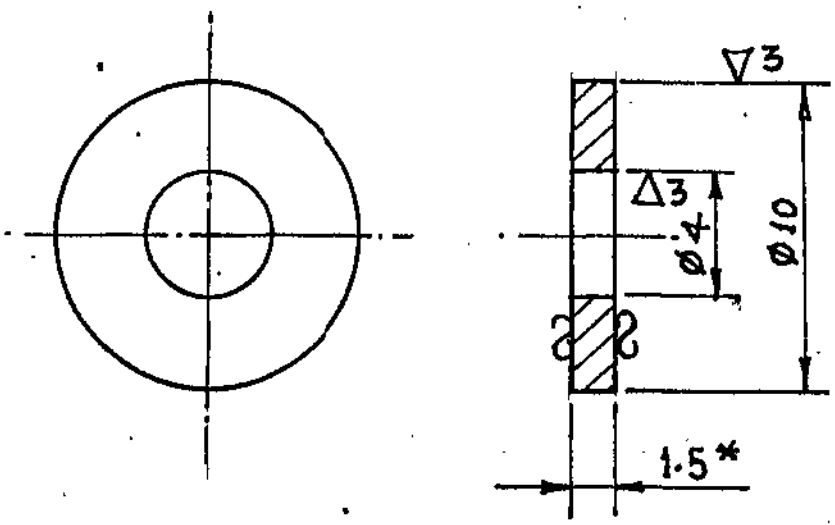


PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION.

		EST. WT.	TO BE STAMPED OR MARKED WHERE INDICATED THUS $\neq$ ( LETTERS)
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT-SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.	
		MATERIAL:- STEEL GDE 10 TO GOST 1050-74	USED ON GENERATOR UTD-20 002-145H
ISSUE DATE	NATURE OF AMENDMENTS	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI.	
DRN <i>Jalbock</i>	SCALE:- 4:1	TITLE <b>WASHER</b>	
CHD <i>Jalbock</i>	DIMENSIONS IN mm		
TCD <i>Jalbock</i>	TOLERANCE ON DIMENSIONS UNLESS OTHERWISE STATED IS 2102 -69	D S CAT NUMBER	DRAWING NUMBER 3402A-1-4-8Kd
APPD <i>C.J.</i>	ALL THREADS CONFORM TO		
DATE 26-11-98			

SIZE A4

DRAWING NUMBER  
3402A-1.5-4-10Kd



NOTE:-

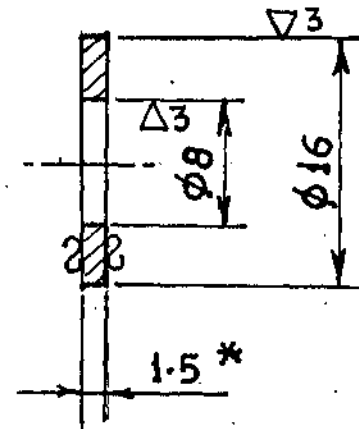
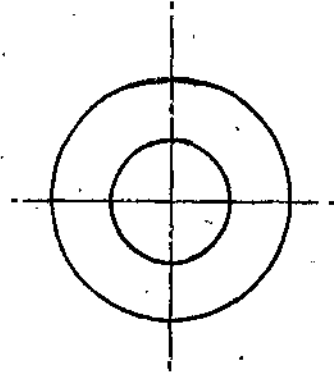
1. COATING: OXIDIZING.
- 2 \* TOLERANCE ON THE DIMENSION IS EQUAL TO THE TOLERANCE ON THE THICKNESS OF DELIVERED MATERIAL.

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION.

		EST. WT.	TO BE STAMPED OR MARKED WHERE INDICATED THUS # ( LETTERS)
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.	
		MATERIAL:- STEEL GDE 10 TO GOST 1050-74	USED ON GENERATOR. UTD-20 002-145H
ISSUE DATE	NATURE OF AMENDMENTS	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADK.	
DRN <i>[Signature]</i>	SCALE:- 4:1	TITLE <b>WASHER</b>	
CHD <i>[Signature]</i>	DIMENSIONS IN mm		
TCD <i>[Signature]</i>	TOLERANCE ON DIMENSIONS UNLESS OTHERWISE STATED IS 2102 -69	D S CAT NUMBER	
APPD <i>[Signature]</i>	ALL THREADS CONFORM TO		
DATE 26-11-98		DRAWING NUMBER 3402A-1.5-4-10Kd	

SIZE A4


DRAWING NUMBER  
3402A-1.5-8-16Kd



**NOTE:-**

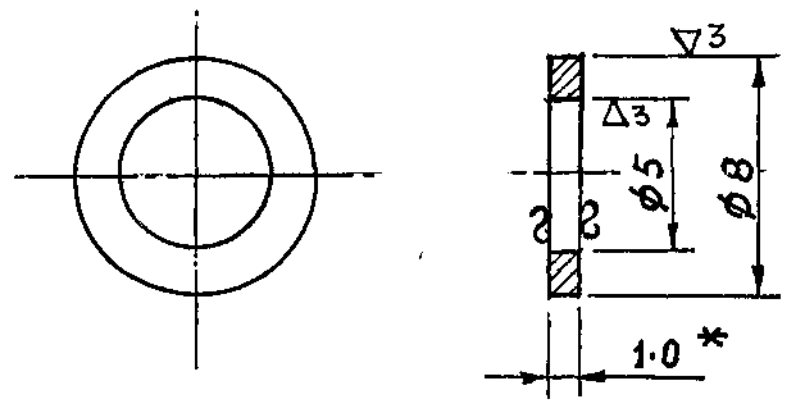
- 1 COATING: OXIDIZING.
- 2.\* TOLERANCE ON THE DIMENSION IS EQUAL TO THE TOLERANCE ON THE THICKNESS OF DELIVERED MATERIAL.

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION.

		EST. WT.	TO BE STAMPED OR MARKED WHERE INDICATED THUS ≠ ( LETTERS)
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.	
		MATERIAL:- STEEL GDE.10 TO GOST 1050-74	USED ON GENERATOR UTD-20 002-145H
ISSUE	DATE	NATURE OF AMENDMENTS	
DRNG		SCALE:- 2:1	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI.
CHD		DIMENSIONS IN mm	
TCD		TOLERANCE ON DIMENSIONS UNLESS OTHERWISE STATED IS 2102 -69	 TITLE <b>WASHER</b>
APPD		ALL THREADS CONFORM TO	
DATE	26-11-98	D S CAT NUMBER	DRAWING NUMBER 3402A-1.5-8-16Kd

G  
137

DRAWING NUMBER  
3402A-1-5-8Kd.



**NOTE:-**

1. COATING :- OXIDIZING.
- 2 \* TOLERANCE ON DIMENSION IS EQUAL TO THE TOLERANCE ON THE THICKNESS OF DELIVERED MATERIAL.

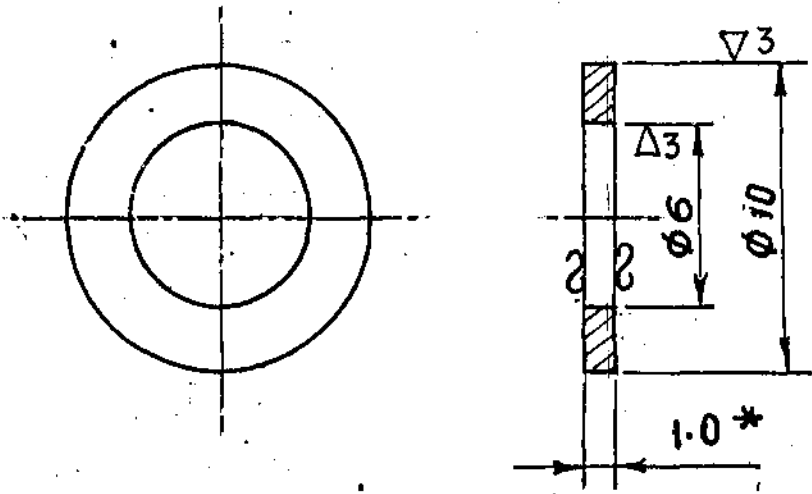
PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION.

		EST. WT.	TO BE STAMPED OR MARKED WHERE INDICATED THUS $\neq$ ( LETTERS)	
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.		
		MATERIAL:- STEEL GDE. 10 TO GOST 1050-74 .	USED ON: GENERATOR, UTD-20 002-145H	
ISSUE DATE	NATURE OF AMENDMENTS			
DRN <i>[Signature]</i>	SCALE:- 4:1	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI		
CHD <i>[Signature]</i>	DIMENSIONS IN mm			
TCD <i>[Signature]</i>	TOLERANCE ON DIMENSIONS UNLESS OTHERWISE STATED IS 2102 -69	TITLE <b>WASHER</b>		
APPD <i>[Signature]</i>	ALL THREADS CONFORM TO	D S CAT NUMBER	DRAWING NUMBER 3402A-1-5-8Kd	
DATE 26-11-98				

SIZE A4

9  
135

DRAWING NUMBER  
3402A-1-6-10Kd



**NOTE:-**

1. COATING: OXIDIZING.
2. \* TOLERANCE ON THE DIMENSION IS EQUAL TO THE TOLERANCE ON THE THICKNESS OF DELIVERED MATERIAL.

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION.

		EST. WT.	TO BE STAMPED OR MARKED WHERE INDICATED THUS ≡ ( LETTERS)
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.	
		MATERIAL:- STEEL GDE. 10 TO GOST 1050-74	USED ON GENERATOR, UTD-20 002-145 H
ISSUE DATE	NATURE OF AMENDMENTS	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI.	
DRNG <i>[Signature]</i>	SCALE:- 4:1	TITLE <b>WASHER</b>	
CHD <i>[Signature]</i>	DIMENSIONS IN mm		
TCD <i>[Signature]</i>	TOLERANCE ON DIMENSIONS UNLESS OTHERWISE STATED IS 2102-69	D S CAT NUMBER	
APPD <i>[Signature]</i>	ALL THREADS CONFORM TO		
DATE 26-11-98		DRAWING NUMBER 3402A-1-6-10Kd	

9  
138

T-293

GENERATOR

BF-7500 H

SPTA LIST

SERVICE FOR GROUND

ITEM-20

002 145 H 3 M-1

1E-11

TRAINING BY S. M. V. Padmanabha

EXERCISE BY S. M. V. Padmanabha

Checked by S. V. Reddy

19

Q.No	Designation	DESCRIPTION	With eye available		As spares							Total	
			Applied	Applied	1	2	3	4	5	6	7		
1	955.102 H	Brush	6										12
2	3102A-1, 5-0-16 KD	Washer	1										1
3	483.000H	Washer	1										1
4	3373A-01KD	Nut	1										3
5	3240A-4-12 KD	Screw	48	18	Ref. No. 5 may be replaced by bolt, drawing 466252 H.							3	
6	295.026 H	Lever	10										2
7	438352 H 41	Spring	0										3
8	467.005 H	Hook	5										1
9	483.157 H	Lock Washer	6										12
10													
11													
12													
13	2 - 125 B	Box	1		Box packing this sets							1	

IT, K, X, Y

19a