



















































































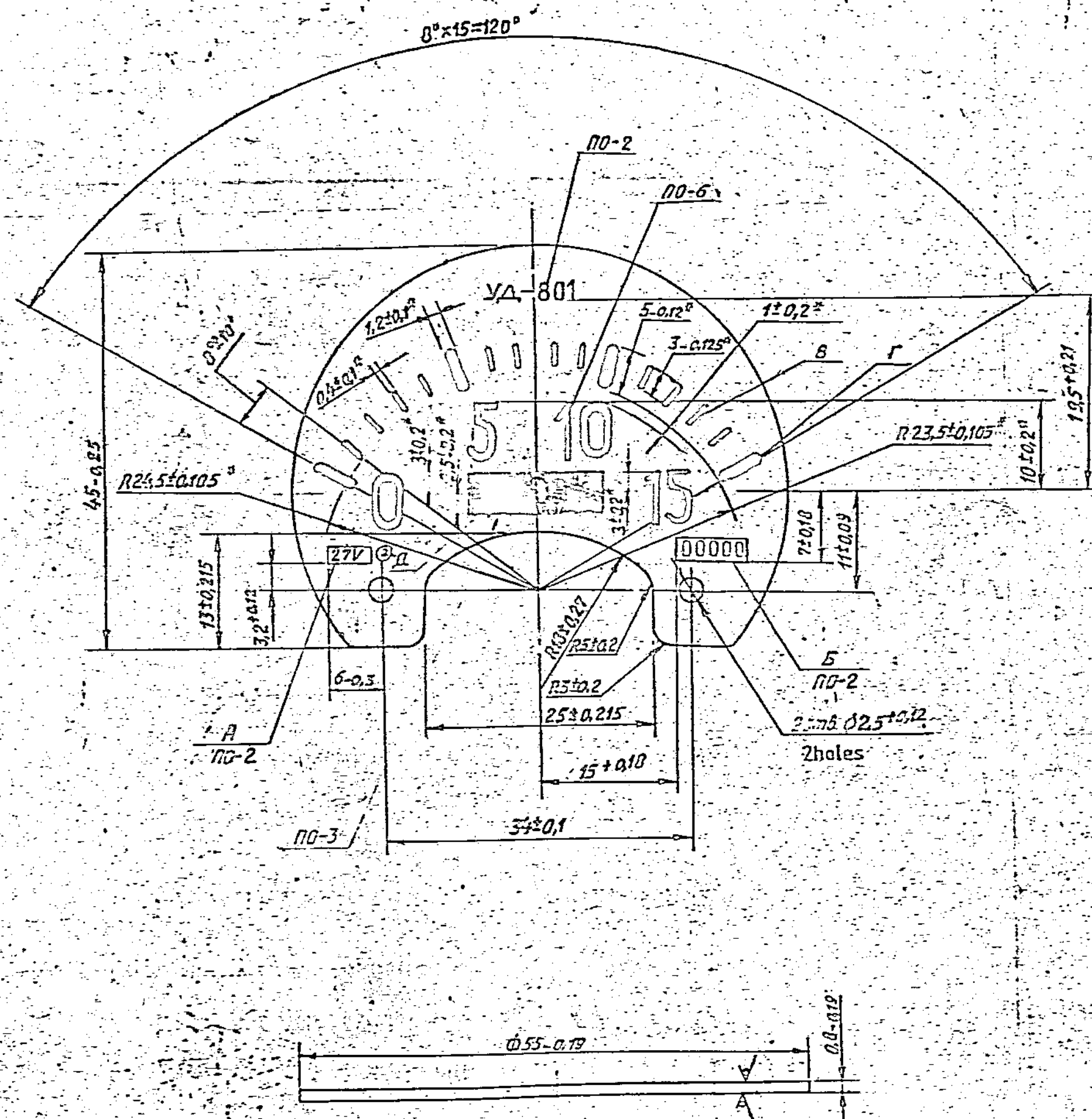






8NM 440 232

02.04.81

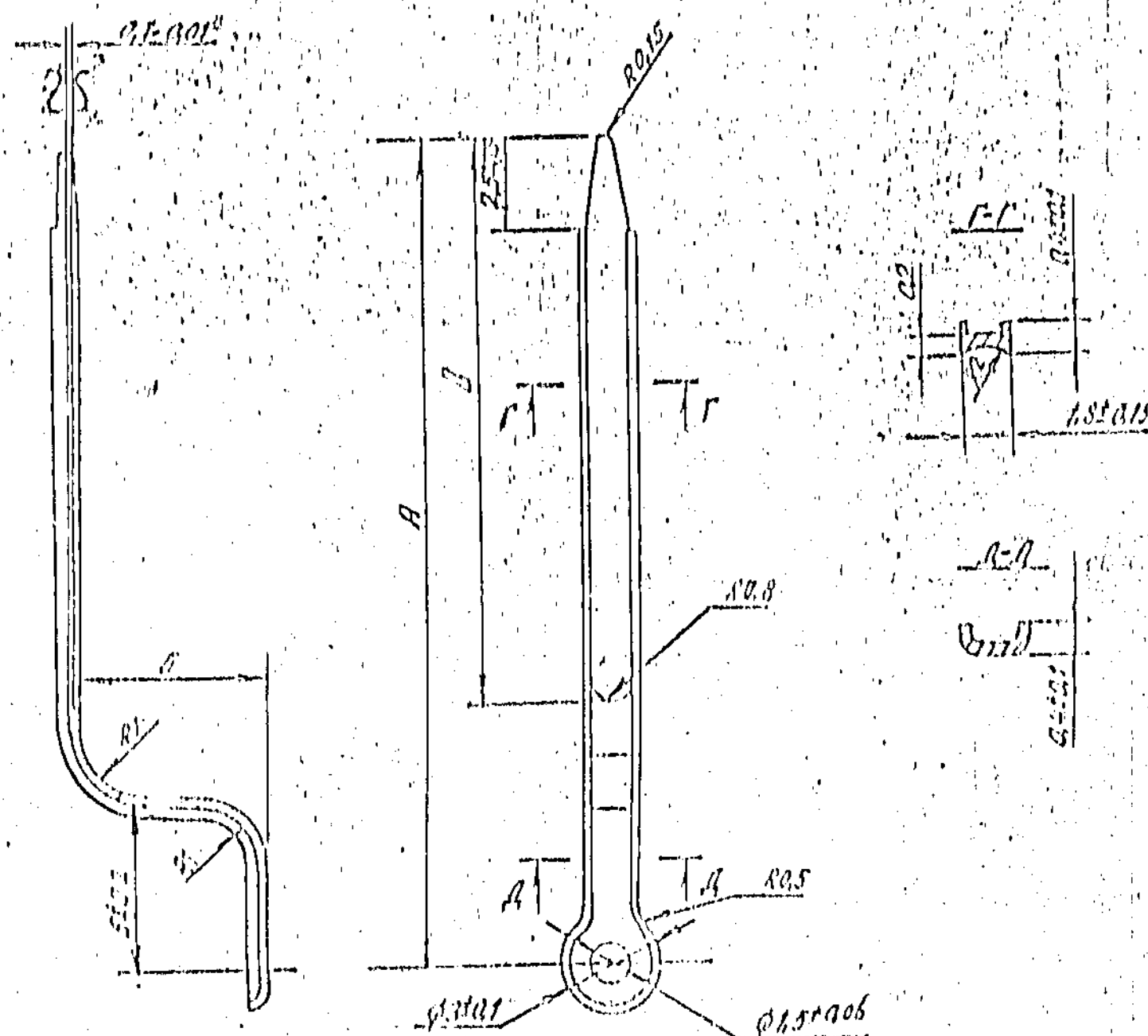
125  
✓(M)

|             |                          |                       |
|-------------|--------------------------|-----------------------|
| Part No     | POINT 12 OF TR           |                       |
| Обозначение | DESIGNATION OF DIMENSION | TYPE No. GOST 2230-62 |
| 8NM.440.232 | Kg/cm <sup>2</sup>       | C-3                   |
| 01          | X 0.1 125                | M-3, NO-3             |

- NUMBER OF READING MARKINGS, INSCRIPTIONS AND OTHER SIGNS ARE DEEPENED (DEPTH  $(0.2 \pm 0.05)$  MM) OR EMBOSSED ONES (HEIGHT  $(0.08 \pm 0.02)$  MM).
- PLACE 5 - SERIAL NUMBER OF THE DEVICE. FILLING PLACE (F5) GIVEN FOR MODEL. DISTANCE BETWEEN DIGITS OF SERIAL NUMBER  $0.4 \pm 0.5$  MM.
- TOLERANCE FOR SYMMETRIC POSITION OF INSCRIPTIONS SHOULD NOT EXCEED 0.18 MM.
- DIMENSIONS ARE TO BE ENSURED BY TOOL.
- COATING: ANODIC OXIDATION, CHROMATIZING.
- FRONT SURFACE, TYPE OF DEVICE, ZONES A, B, C ARE TO BE COATED WITH PRIMER B.1 -02 GOST 12707-77 WITH BLACK ENAMEL AC-759-11 AND WITH VARNISH AK-113 GOST 23832-79 II T2 (COATING IS GIVEN FOR DEEPENED IMAGE). ON FACES OF DIAL VARNISH COATING IS ALLOWED. FEELING OF COATING IS NOT ALLOWED.
- DEEPENED MARKS B AND DESIGNATION OF DIMENSIONS ARE TO BE COATED WITH WHITE ENAMEL ПФ-223-1 GOST 14923-78; AND EMBOSSED SHOULD BE COATED WITH COLOURLESS ANODIC OXIDATION.</

| Part No.      | A        | B       | C        | Weight, g. | Point 5 of TR                         |
|---------------|----------|---------|----------|------------|---------------------------------------|
| 8NM.441.018-1 | 21.5±0.3 | 6.8±0.2 | 14.5±0.5 | 0.021      | Chemical<br>oxidation<br>anodic oxide |
| 8NM.441.018-3 | 26±0.3   | 6±0.2   | 17±0.5   | 0.023      |                                       |
| 8NM.441.018-2 | 21.5±0.3 | 6.8±0.2 | 14.5±0.5 | 0.021      | anodic<br>oxidation                   |
| 8NM.441.018-4 | 26±0.3   | 6±0.2   | 17±0.5   | 0.023      | Colourless<br>oxide oxidation         |
| 8NM.441.018   | 18.5±0.3 | 6.2±0.2 | 14.5±0.5 | 0.023      | anodic<br>oxidation                   |

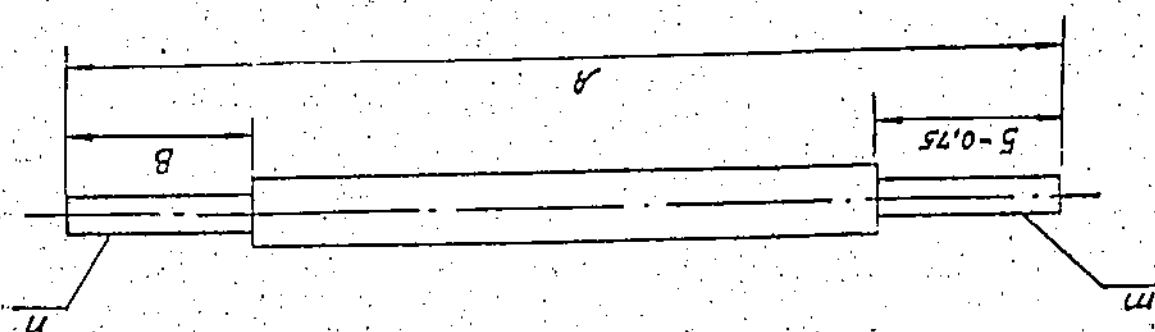
1. DIMENSION SHOULD BE ENSURED BY ROLLING THE MATERIAL OF 0.3 MM THICKNESS.
2. TO BE DEMAGNETISED.
3. BURRS ARE NOT ALLOWED.
4. UNSPECIFIED BENDING RADIUS SHOULD NOT EXCEED 0.1 MM.
5. COATING : SEE THE TABLE.



|                                                                  |                                                    |                                                           |
|------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------|
| MATERIAL : - ALUMINUM ALLOY A 16 at 0.3                          |                                                    |                                                           |
| ALL SHARP EDGES & CORNERS TO BE ROUNDED OFF                      | ALL THREADS TO CONFORM TO SPECIFICATION            | STAMP OR ETCH, PART NO. MANUFACTURERS NAME & YEAR OF MFR. |
| DRG. NOT TO BE SCALED                                            | TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED | USED ON:- 8NM.441.018CB                                   |
| SCALE :-                                                         | DATE :- 17-7-97                                    |                                                           |
| DRN.                                                             | WT :- (Kg)                                         |                                                           |
| TCO. <i>my</i>                                                   | SEE TABLE                                          |                                                           |
| CHD.                                                             |                                                    |                                                           |
| APD. <i>guy</i>                                                  |                                                    |                                                           |
| 8NM.441.018                                                      |                                                    |                                                           |
| POINTER                                                          |                                                    |                                                           |
| CONTROLLERATE OF QUALITY ASSURANCE<br>(INFANTRY COMBAT VEHICLES) |                                                    |                                                           |
| 129 OF 154                                                       |                                                    |                                                           |

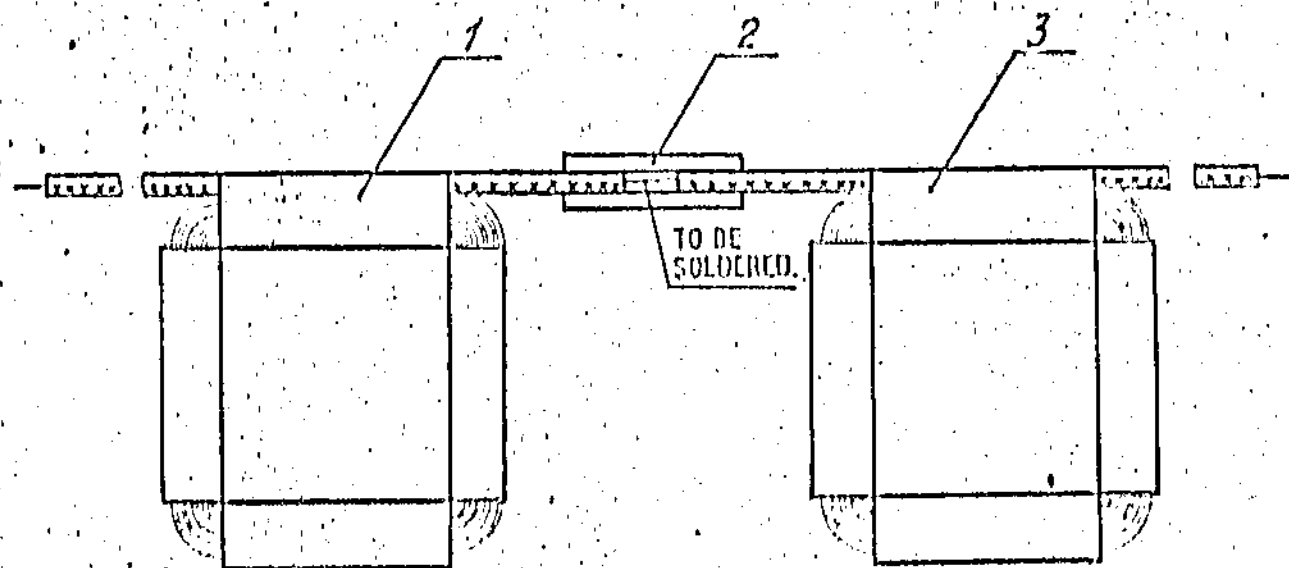
|                                                                               |  |                                                                             |                                                                  |                                                                   |
|-------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------|
| CONTROL RATE OF QUALITY ASSURANCE<br>(INFANTRY COMBAT VEHICLES)<br>130 OF 154 |  | WIRE                                                                        |                                                                  | App<br>CHD<br>CD<br>DRN                                           |
| 87M.510.021                                                                   |  | WT :- (kg)                                                                  | DATE :- 17-7-97                                                  | SCALE :-                                                          |
| TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED<br>USED ON:- 5M 528 015 C8 |  | ALL THREADS TO CONFORM TO SPECIFICATION<br>STAMP OR ETCH, PART NO. OF LITER | DRG. NOT TO BE SCALED<br>ALL SHARP EDGES & CORNERS TO BE ROUNDED | MATERIAL :- WIRE (INSULATED) 0.12 mm <sup>2</sup> . SEE THE TABLE |

| Part No.      | ARM | BMM    | Grade of wire    | Colour |
|---------------|-----|--------|------------------|--------|
| 87M.510.021-1 | 90  | 7-0,9  | HB GOST 17515-72 | Red    |
| -2            | 95  |        |                  | Black  |
| -3            | 90  |        |                  | Yellow |
| -4            |     |        |                  | Red    |
| -5            | 30  | 5-0,75 | HB GOST 17515-72 | Black  |
| -6            |     |        |                  | Yellow |
| -7            | 95  | 7-0,9  |                  | Green  |
| -8            | 30  | 5-0,75 |                  | Green  |



ON WERE ENDS 'm' AND 'n' OF INSULATION IS NOT ALLOWED.

DRAWING NUMBER  
5PM 520 017-0(Cb)



1. START OF THE FIRST FRAME IS TO BE SOLDERED WITH THE FINISH OF THE OTHER FRAME (SHORT LEAD) TYPE 7 TY OPM 550 001.
2. —
3. SLEEVE No.2 IS TO BE SECURED WITH NITRO CELLULOSE ADHESIVE AK-20 TY 6-10-1293-70.
4. DIFFERENCE OF RESISTANCES OF FRAMES No. 1 AND 3 SHOULD NOT BE MORE THAN 1 OHM.

| PART No.        | ITEM No. 1      | ITEM No.2      | ITEM No.3       |
|-----------------|-----------------|----------------|-----------------|
| 5PM 520 017-1Cb | 5PM 520 015-1Cb | OPM 770 010-49 | 5PM 520 015-2Cb |
| 5PM 520 017-2   | 5PM 520 032-1   | OPM 770 019-30 | 5PM 520 032-2   |

| 3        | SEE TABLE | FRAME             | 1   |                 |
|----------|-----------|-------------------|-----|-----------------|
| 2        | SEE TABLE | INSULATING SLEEVE | 1   | CTN.OPM.609.001 |
| 1        | SEE TABLE | FRAME             | 1   |                 |
| ITEM No. | PART No.  | NOMENCLATURE      | QTY | REMARKS         |

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 OUT SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

| ISSUE | DATE | NATURE OF AMENDMENTS |
|-------|------|----------------------|
|       |      |                      |
|       |      |                      |
|       |      |                      |
|       |      |                      |
|       |      |                      |
|       |      |                      |
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|       |      |                      |

|                                             |                                                                            |                                                           |
|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------|
| MATERIAL : —                                |                                                                            | STAMP OR ETCH, PART NO. MANUFACTURERS NAME & YEAR OF MFR. |
| ALL SHARP EDGES & CORNERS TO BE ROUNDED OFF | ALL THREADS TO CONFORM TO SPECIFICATION                                    |                                                           |
| DRG. NOT TO BE SCALED                       | TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED                         | USED ON:-                                                 |
| SCALE :- 2:1                                | DATE :- 17.7.97                                                            | 5PM 528 017-0 (Cb)                                        |
| DRN. —                                      | WT :- (Kg)                                                                 |                                                           |
| TCD. —                                      |                                                                            | FRAME                                                     |
| CHD. —                                      |                                                                            |                                                           |
| APD. —                                      | CONTROLLERATE OF QUALITY ASSURANCE<br>(INFANTRY COMBAT VEHICLES) 63 OF 154 |                                                           |

DRG. INCORPORATED BASED ON RUSSIAN ORIGINAL ISSUE-121

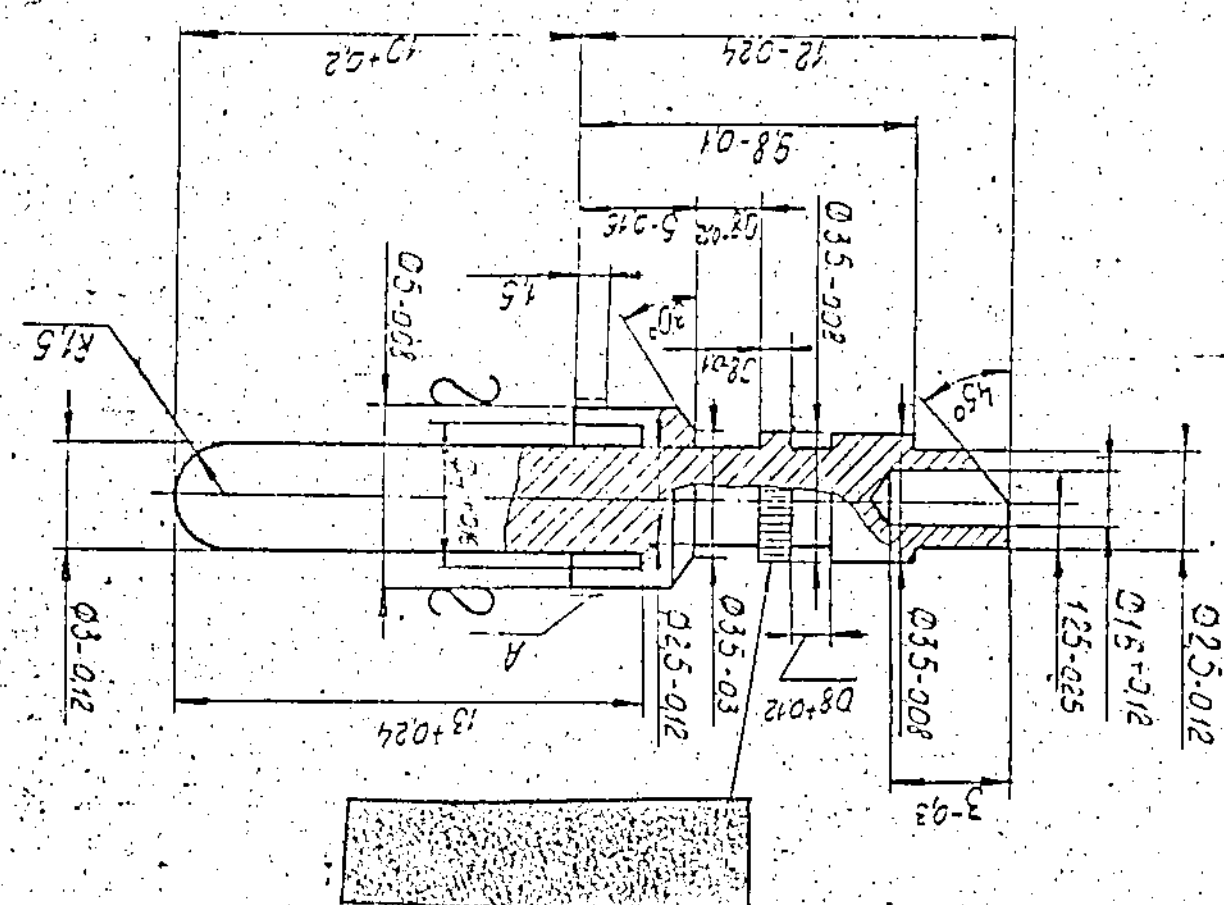
DRG. CREATED BASED ON RUSSIAN ORIGINAL ISSUE: 11

|                                                    |  |                                         |  |
|----------------------------------------------------|--|-----------------------------------------|--|
| MATERIAL: - BRASS AC.59-1 GOST 15527-70            |  | ALL SHARP EDGES & CORNERS TO BE ROUNDED |  |
| ALL THREADS TO CONFORM TO SPECIFICATION            |  | ORG. NOT TO BE SCALED                   |  |
| STAMP OR ETCH, PART NO. MANUFACTURERS NAME & YEAR  |  | SCALE: - 5:1                            |  |
| TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED |  | DATE: - 17-7-97                         |  |
| USED ON: - SNM 551 002 c8                          |  | DRILL                                   |  |
| 8MM.540.025                                        |  | TCD. <i>mm</i>                          |  |
| ROD                                                |  | WT: - (KG) 1.28                         |  |
|                                                    |  | CHD                                     |  |
|                                                    |  | APD <i>mm</i>                           |  |

# CONTROL RATE OF QUALITY ASSURANCE (INFANTRY COMBAT VEHICLES)

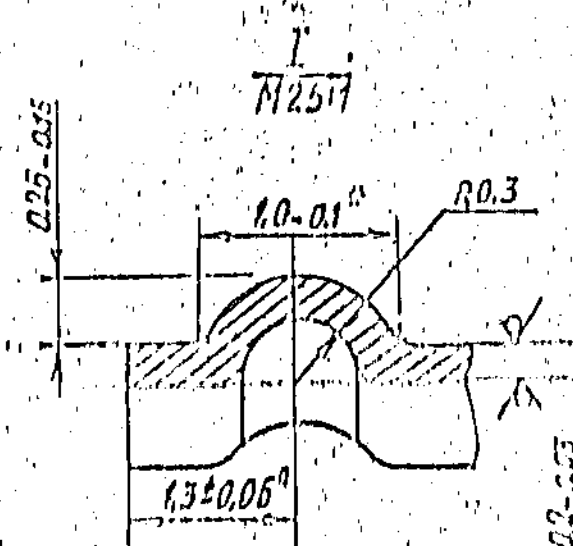
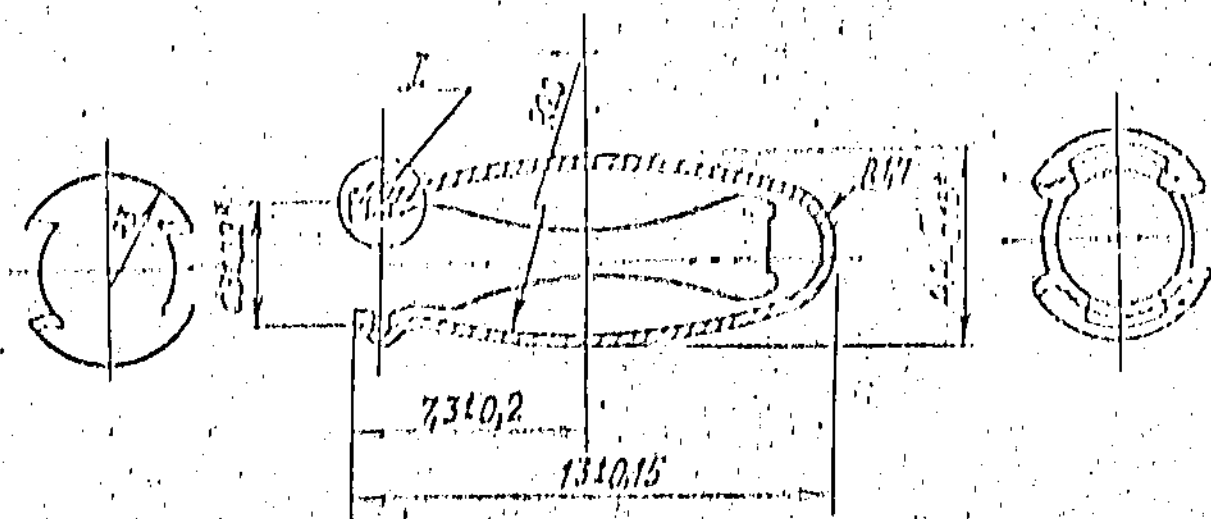
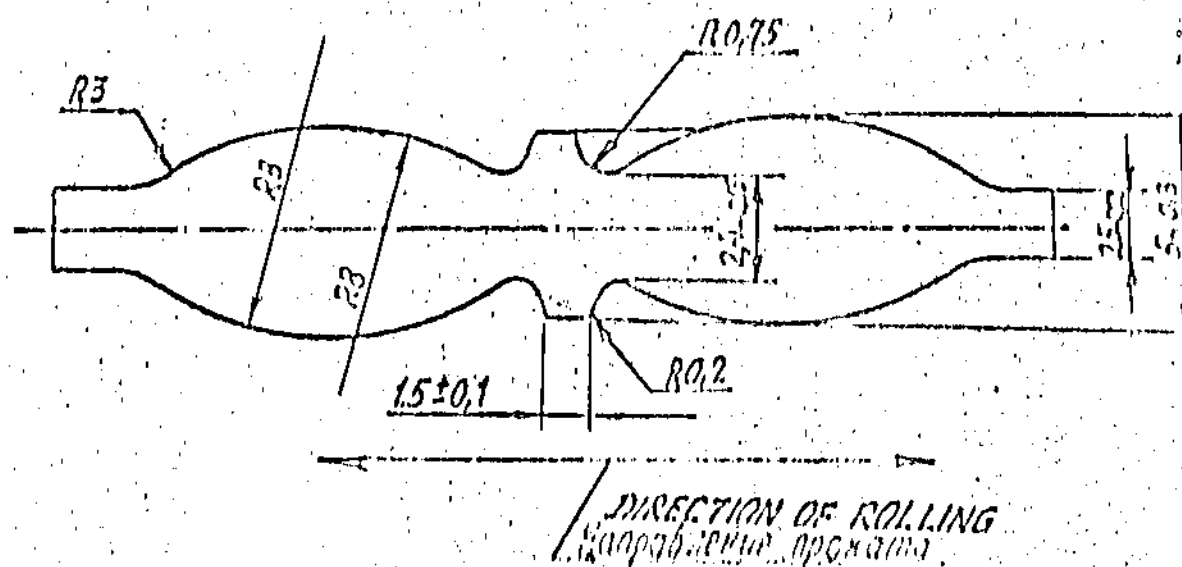
131 OF 154

1. IN THE AREA A DIAMETER MAY BE INCREASED TO 0.05 MM TO MAX.
2. COATING .50 BC 9



8PM 551 006

R.00 (✓)

DEVELOPED VIEW  
*Развертка*

| PART NO<br>0001404000 | POINT 2 OF TR<br>п.2 тр. |  |
|-----------------------|--------------------------|--|
| 8PM 551 006           | M30-Cy9                  |  |
| -01                   | M30-Cy6                  |  |

1. DIMENSIONS ARE TO BE ENSURED BY TOOL.
2. CONTING : SEE THE TABLE.

|                                                   |                                                    |                                                           |
|---------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------|
| MATERIAL : —ТАПЕ АПРГБ 90Ф65-015Т-02 ГОСТ 1761-79 |                                                    |                                                           |
| ALL SHARP EDGES & CORNERS TO BE ROUNDED           | ALL THREADS TO CONFORM TO SPECIFICATION            | STAMP OR ETCH, PART NO. MANUFACTURERS NAME & YEAR OF MFR. |
| DRG. NOT TO BE SCALED                             | TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED | USED ON:-                                                 |
| SCALE :- 5:1                                      |                                                    |                                                           |
| DATE :- 17-7-97                                   |                                                    |                                                           |
| DRN.                                              | WT :- (Kg)                                         | 8PM 551 006                                               |
| TCD.                                              | 0.16 g                                             |                                                           |
| CHD. <i>Св-м</i>                                  | ① ②                                                | CONTACT                                                   |
| APD. <i>РД</i>                                    |                                                    |                                                           |

CONTROLLERATE OF QUALITY ASSURANCE  
(INFANTRY COMBAT VEHICLES)

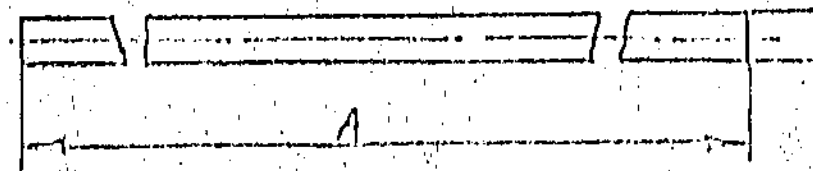
132 OF 154





029. CREATED BASED ON RUSSIAN ORIGINAL ISSUE-20.

DRAWING NUMBER  
8ПМ.588.023



| DESIGNATION    | A<br>mm | MASS | S <sub>2n</sub><br>mm <sup>2</sup> | COATING | MATERIAL                        | USED ON.          |
|----------------|---------|------|------------------------------------|---------|---------------------------------|-------------------|
| 8ПМ.588.023-1  | 20±0,5  | 0,02 | 0,0003                             | Sn Be:9 | WIRE MM 0,8<br>GOST 2112-79.    |                   |
| 8ПМ.588.023-2  | 30±1    | 0,11 | 0,0076                             |         |                                 |                   |
| 8ПМ.588.023-3  | 40±1    | 0,21 | 0,012                              |         |                                 |                   |
| 8ПМ.588.023-4  | 20±0,5  | 0,1  | 0,0051                             | —       | WIRE AKVINT 0,8<br>GOST 2179-75 |                   |
| 8ПМ.588.023-05 | 78±1    | 0,36 | 0,0197                             |         | WIRE MM 0,8<br>GOST 2112-79.    |                   |
| 8ПМ.588.023-06 | 13±0,5  | 0,06 | 0,0034                             |         |                                 |                   |
| 8ПМ.588.023-07 | 14±0,5  | 0,06 | 0,0036                             |         |                                 | SPM4/32.044-01c5. |

1. BURRS ARE NOT ALLOWED.

2. COATING: SEE THE TABLE.

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

EST. WT. TO BE STAMPED OR MARKED WHERE  
SEE THE TABLE 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              |            | ALL SHARP EDGES & CORNERS TO BE ROUNDED OFF        | ALL THREADS TO CONFORM TO SPECIFICATION | STAMP OR ETCH, PART NO.<br>MANUFACTURERS NAME & YEAR<br>OF MFR. |
| DRG. NOT TO BE SCALED |            |                                                    |                                         |                                                                 |
| SCALE :- 5:1          |            | TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED |                                         | USED ON:-                                                       |
| DATE :- 17.7.97       |            |                                                    |                                         |                                                                 |
| DRN.                  | WT :- (Kg) |                                                    |                                         |                                                                 |
| PCD.                  |            |                                                    |                                         |                                                                 |
| CHD                   |            |                                                    |                                         |                                                                 |
| APD                   |            |                                                    |                                         |                                                                 |
|                       |            | 8ПМ.588:023                                        |                                         |                                                                 |
|                       |            | POWER LEADS                                        |                                         |                                                                 |

CONTROLLERATE OF QUALITY ASSURANCE  
(INFANTRY COMBAT VEHICLES) 135 OF 154



SIZE A3

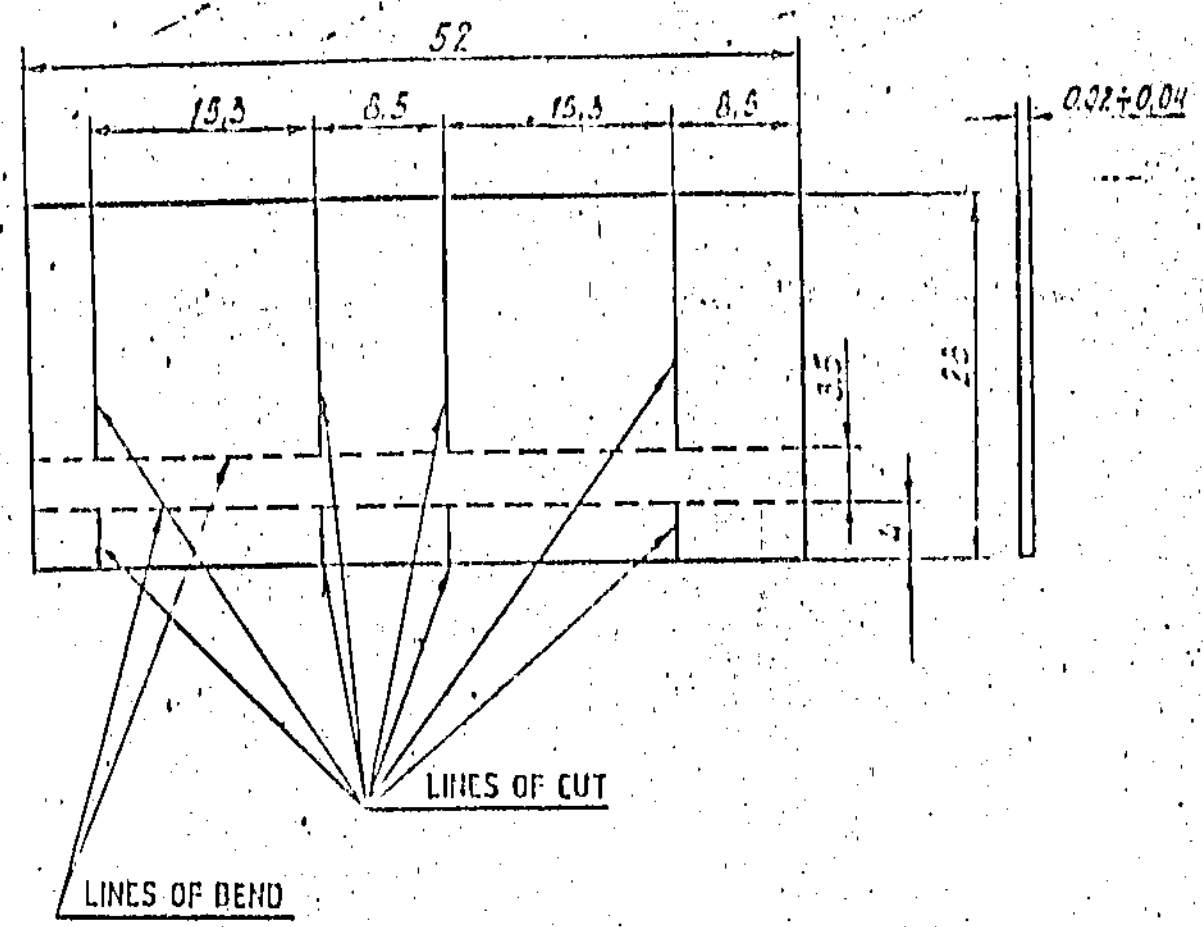


8PM

DRAWING REDESIGNED BASED ON RUSSIAN ORIGINAL ISSUE- 12

DRAWING NUMBER  
8PM 754-002

DIMENSIONS WITH UNSPECIFIED TOLERANCES  
TO BE ENSURED AS PER ACCURACY CLASS 7  
OST 1010.



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

EST WT. 0.1 TO BE STAMPED OR MARKED WHERE  
INDICATED THUS (H I LETTERS)

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

|                                         |                                                    |                                                           |
|-----------------------------------------|----------------------------------------------------|-----------------------------------------------------------|
| MATERIAL :- TRACING PAPER GOST-892-70   |                                                    |                                                           |
| ALL SHARP EDGES & CORNERS TO BE ROUNDED | ALL THREADS TO CONFORM TO SPECIFICATION            | STAMP OR ETCH, PART NO. MANUFACTURERS NAME & YEAR OF MFR. |
| DRG. NOT TO BE SCALED                   |                                                    |                                                           |
| SCALE :- 2:1                            | TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED | USED ON:-5PM-528-016-01C5<br>5PM-528-016-02C5             |
| DATE :- 17-7-97                         |                                                    |                                                           |
| DRN. <i>ABD</i>                         | WT :- (Kg) 0.1                                     | 8PM-754-002                                               |
| TCD. <i>ABD</i>                         |                                                    | WRAPPER                                                   |
| CHD                                     |                                                    |                                                           |
| APD. <i>ABD</i>                         |                                                    |                                                           |

CONTROLLERATE OF QUALITY ASSURANCE  
(INFANTRY COMBAT VEHICLES) 138 OF 154

45410 KA

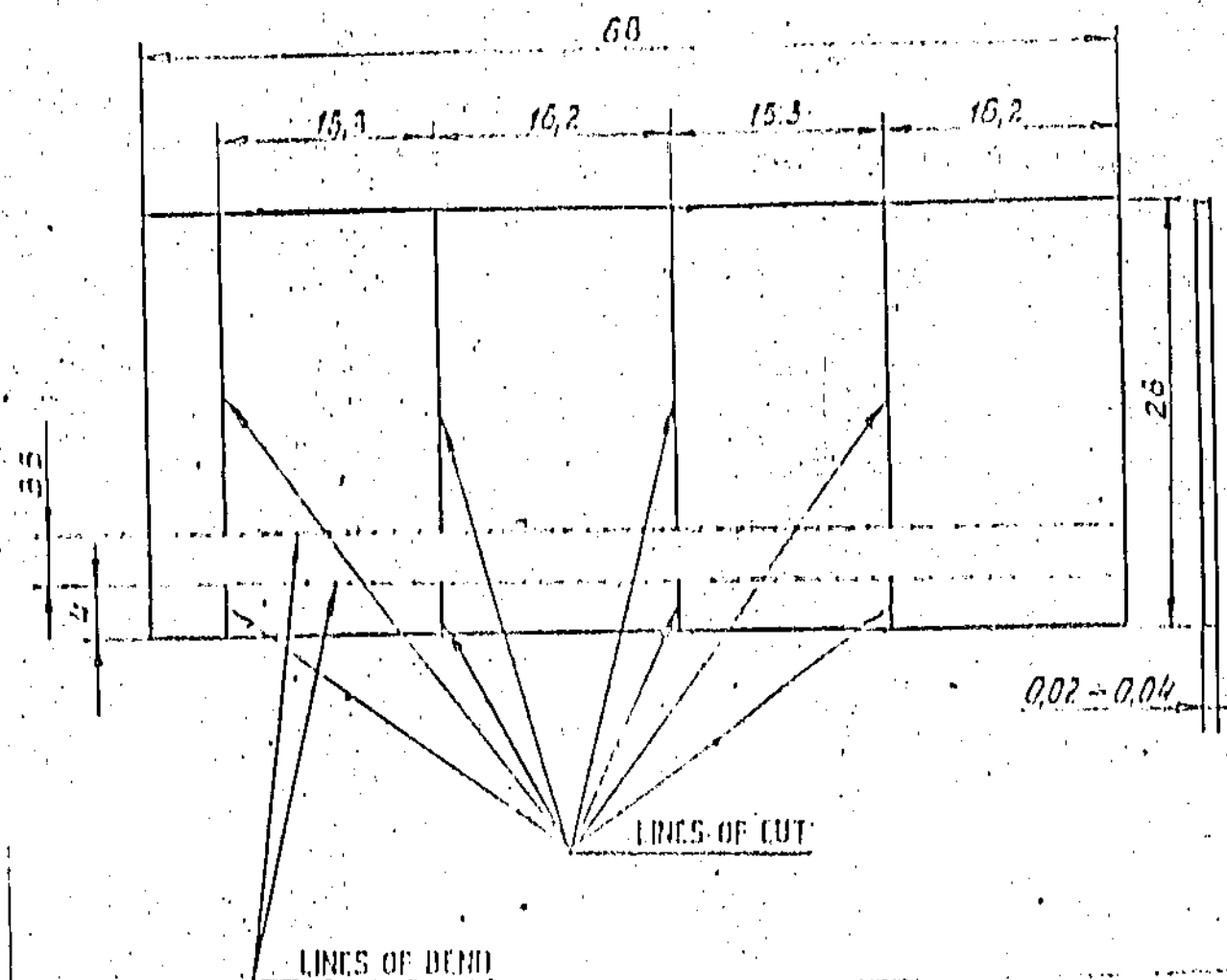
F-2  
131

SIZE A3



DRAWING DECLASSIFIED BASED ON RUSSIAN ORIGINAL ISSUE-XXII

DRAWING NUMBER  
8PM 754 004



# REQUIREMENTS

DIMENSIONS WITH UNSPECIFIED TOLERANCES.  
TO BE ENSURED AS PER ACCURACY CLASS 7 OST 1010.

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

EST. WT. 0.13 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: TRACING PAPER GOST 892-70

ALL SHARP EDGES & CORNERS TO BE ROUNDED

ALL THREADS TO CONFORM TO  
SPECIFICATION

STAMP OR ETCH, PART NO.  
MANUFACTURERS NAME & YEAR  
OF MFG.

ORG NOT TO BE SCALED

TOLERANCE ON DIMENSIONS UNL  
-SS OTHERWISE SPECIFIED

USED ON:-

SCALE: 2:1

DATE: 17-7-97

DRN

WT: (Kg)

8PM 754 004

ICD

CHD

APD

WRAPPER

CONTROLLERATE OF QUALITY ASSURANCE  
(INFANTRY COMBAT VEHICLES) 140 OF 154

ISSUE DATE NATURE OF AMENDMENTS

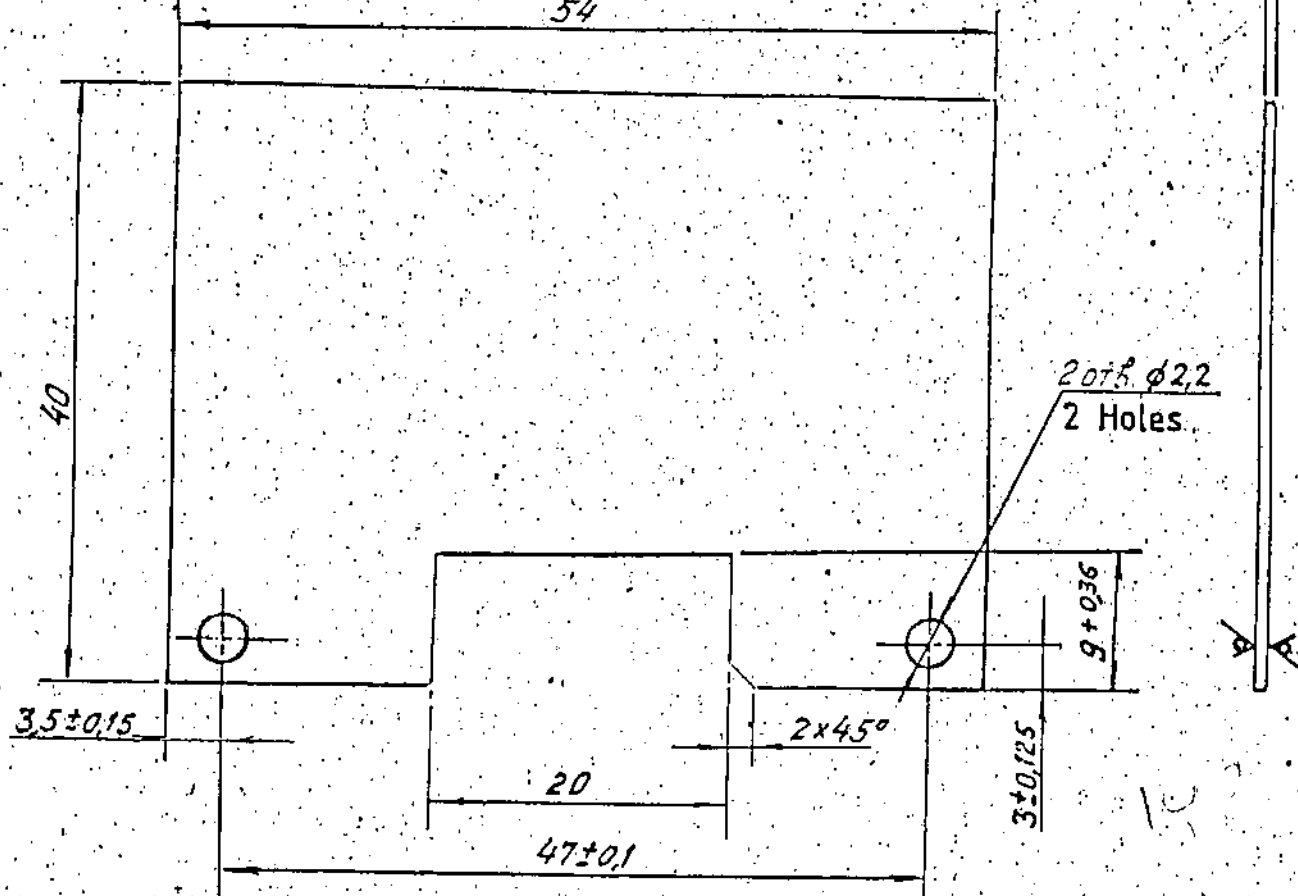
15415 K/L

F-2  
133

SIZE A3



DRG. CREATED BASED ON RUSSIAN ORIGINAL ISSUE - N11



| Part No<br>Обозначение | Material<br>Материал                                                        | A         | Weight<br>Масса |
|------------------------|-----------------------------------------------------------------------------|-----------|-----------------|
| 8ПМ.760.150            | ПЭТ-3, 250, неокрашенная,<br>Not painted 1st grade<br>I сорт, ГОСТ 24234-80 | 0,25±0,03 | 0,67            |
| -01                    | Кабель электрический<br>Electric Insulation Wire<br>ЭБ-03, ГОСТ 2824-75     | 0,3±0,03  | 0,79            |

1. UN SPECIFIED LIMIT DEVIATION OF DIMENSION H14, h14 JT14

2

2. DIMENSIONS ARE TO BE ENSURED BY TOOL.

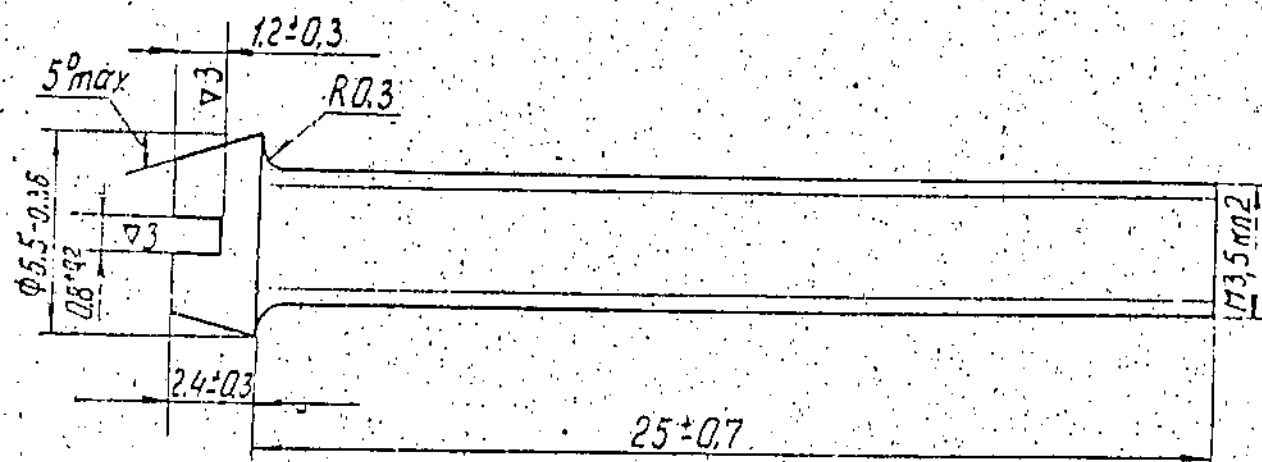
|                                                                  |                                                    |                                                           |
|------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------|
| MATERIAL :- SEE TABLE                                            |                                                    |                                                           |
| ALL SHARP EDGES & CORNERS TO BE ROUNDED OFF                      | ALL THREADS TO CONFORM TO SPECIFICATION            | STAMP OR ETCH, PART NO. MANUFACTURERS NAME & YEAR OF MFR. |
| DRG. NOT TO BE SCALED                                            | TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED | USED ON:-                                                 |
| SCALE :- 2:1                                                     |                                                    |                                                           |
| DATE :- 17.7.97                                                  |                                                    |                                                           |
| DRN.                                                             | WT :- (Kg)                                         | 8ПМ.760.150                                               |
| TCD.                                                             | SEE TABLE                                          |                                                           |
| CHD. <i>Grm</i>                                                  |                                                    | GASKET                                                    |
| APD. <i>ggh</i>                                                  |                                                    |                                                           |
| CONTROLLERATE OF QUALITY ASSURANCE<br>(INFANTRY COMBAT VEHICLES) |                                                    |                                                           |

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▽4 (▽)

2. PERMISSIBLE SHIFT RELATIVE TO THE AXIS OF SHANK OF HEAD AND SLOT IS 0.2 MM.
3. COATING : SEE THE TABLE.



| PART NO<br>Обозначение | COATING<br>Покрытие    |
|------------------------|------------------------|
| 8ПМ.900.065-1          | Никель-хромовое черное |
| 8ПМ.900.065-2          | Н.6 NICKEL 6.          |

F-46  
147

45315KD

|                                                                             |                                                    |                                                           |
|-----------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------|
| MATERIAL : WIRE 163-3,26 GOST 12920-67                                      |                                                    |                                                           |
| ALL SHARP EDGES & CORNERS TO BE ROUNDED OFF                                 | ALL THREADS TO CONFORM TO SPECIFICATION            | STAMP OR ETCH, PART NO. MANUFACTURERS NAME & YEAR OF MFR. |
| DRG. NOT TO BE SCALED                                                       | TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED | USED ON:-                                                 |
| SCALE :- 5:1                                                                |                                                    |                                                           |
| DATE :- 17.7.97                                                             |                                                    |                                                           |
| DRN.                                                                        | WT :- (Kg)<br>2.2 g                                | 8ПМ.900.065                                               |
| TCD.                                                                        |                                                    |                                                           |
| CHD. <i>Am</i>                                                              |                                                    |                                                           |
| APD. <i>Am</i>                                                              |                                                    |                                                           |
| SCREW                                                                       |                                                    |                                                           |
| CONTROLLERATE OF QUALITY ASSURANCE<br>(INFANTRY COMBAT VEHICLES) 144 OF 154 |                                                    |                                                           |



















