

**Material :**  
 Steel IS: 4454 Pt.1 2001 Gr. DH (or)  
 IS:4454: Pt.1 1981 Gr. 4 (or)  
 BS: 5216: 1975 Sec.4 Code 'M' Gr.5

**Protective Finish :**  
 Accelerated Phosphating to Specn.  
 JSS: 0465-01-1994 Class II (Acc.) Oil Finish

**Stress Relief:-**  
 200° c to 240° c for one Hour

Wire Dia. : 0.5 mm  
 No. of coils : 11.5 ±0.25  
 Direction of Wound : R.H or L.H.  
 Outer Dia. : 3.34 ±0.2 mm  
 Inner Dia. : 2.34 ±0.2 mm

One coil of each end to be closed in & ground square to the axis of the Coil, leaving 3/4 of coil at each end non-effective.

**Crimp Test:**  
 Spring to be Tested before Gauging by compression to Solid Length for a period of 24 hours after which it must conform to the Free Length shown.

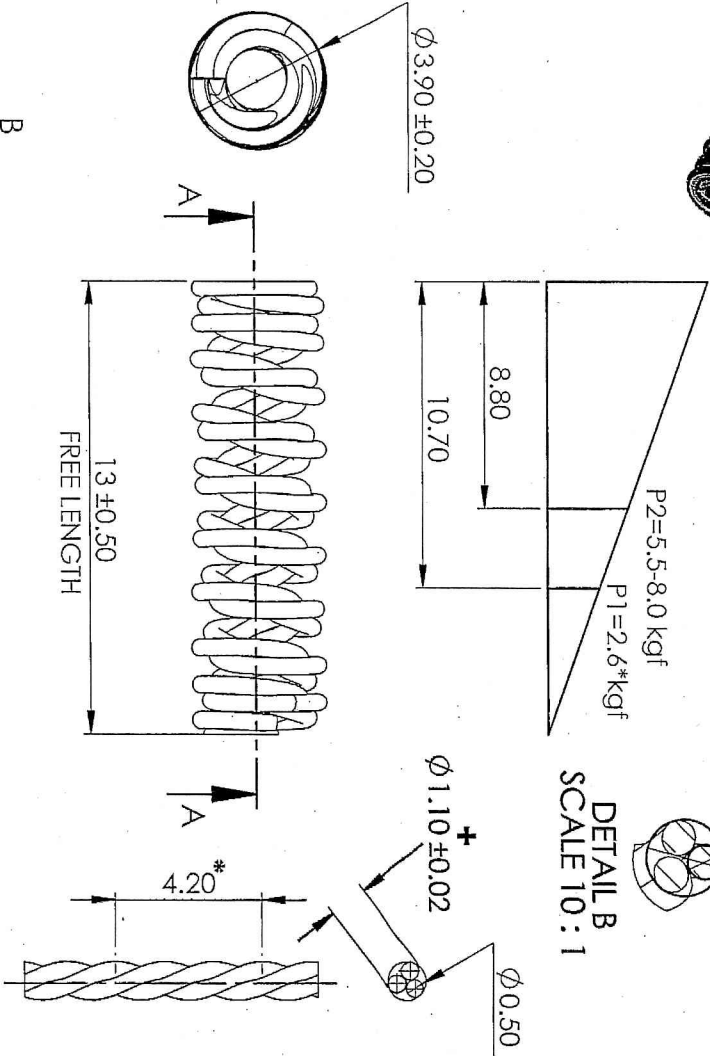
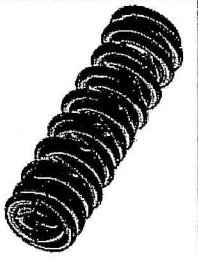
The spring to work freely in its loaded and unloaded condition in a Hole of  $\phi$  4.3 mm.

\* Sizes & Parameters are given for Reference

UN CONTROLLED COPY  
 CERTIFIED CORRECT COPY OF APPROVED  
 DRAWINGS AT THIS DATE: 24/11/21  
 DESIGN & DRAWING OFFICE,  
 ORDNANCE FACTORY, TIRUCHIRAPPALLI-620 016.

TRACED DRAWN CHECKED OIC/D&DO OFFICER/ PRODN. DIV.OFFICER/ D&DO DA.No.: 40/21 DT.: 27/07/2021 AMENDMENTS		SIGNATURE & DATE SIGNATURE & DATE APPROVED ON. 28/07/2021		SUB: <b>Spring Lock Compensator</b> FOR: TRICHY ASSAULT RIFLE OF: TRICHY ASSAULT RIFLE DES. REF. NO. K-1208 / K-1208-EXP DRG. No.: K-1208* ORDNANCE FACTORY TIRUCHIRAPPALLI-16.		SCALE NTS QPG 1 Weight (g) SHEETS: 1 SHEET No.: 1	
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DETAIL B  
SCALE 10 : 1

+ Must not produce any permanent set  
**Material:**  
 Steel IS: 4454 Pt.1 2001 Gr. DH (or)  
 Steel IS: 4454 Pt.1 1981 Gr. 4  
 Alternate Material:  
 BS: 5216: 1975 Sec.4 Code 'M' Gr.5

**Protective Finish:**  
 Accelerated Phosphating to Specn.  
 JSS: 0465-01-1994 Class II, Oil Finish

**Tempering/Stress Relief:-**  
 200° c to 240° c for one Hour

Wire Dia. : 0.5 mm x 3 strands  
 No. of coils : 7 ± 0.25  
 Outer Dia. : 3.9 ± 0.2 mm  
 Inner Dia. : 1.7 ± 0.2 mm  
 Direction of Spring Coiling : Right Hand  
 Direction of Cable Braiding : Left Hand

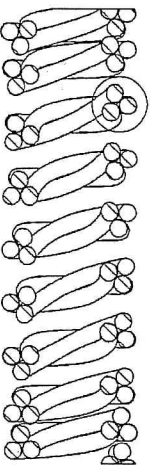
One coil of each end to be closed to the axis of the Coil, leaving 3/4 of coil at each end and non-effective.

**Cramp Test:**  
 Spring to be Tested before Gauging by compression to Solid Length for a period of 24 hours after which it must conform to the Free Length shown.

The spring to work freely in its loaded and unloaded condition in a Hole of  $\phi$  4.5 mm.

\* Sizes & Parameters are given for Reference

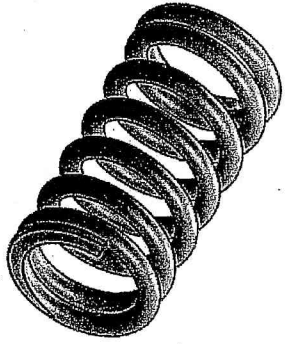
SECTION A-A  
SCALE 5 : 1



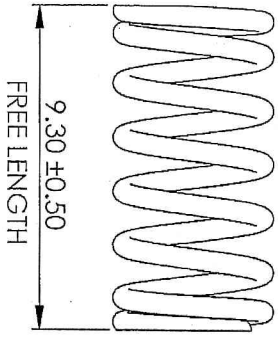
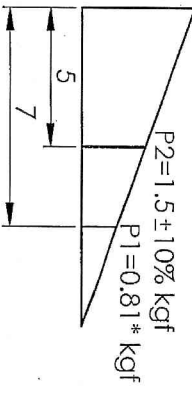
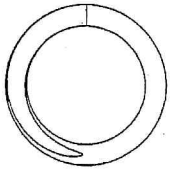
**A suitable number of Advance samples are to be fired out by filament & firing before Bulk is produced**

SIGNATURE & DATE		SCALE NTS	
TRACED		SUB: <b>Spring, Extractor</b>	
DRAWN		FOR: TRICHY ASSAULT RIFLE	QPG
CHECKED		DES. REF. NO. K-2013 / K-2013-EXP	1
OIC / D&DO		DRG. No.: K-2013*	Weight (g)
OFFICER / PRDIN.		ORDNANCE FACTORY TIRUCHIRAPPALLI-16.	SHEETS: 1
DIV. OFFICER / D&DO			SHEET No.: 1
AMENDMENTS	SIG. & DATE	APPROVED ON: 28/07/2021	
DA.No.: 40/21 DT.: 27/07/2021			

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 ORDNANCE FACTORY, TIRUCHIRAPPALLI-620 015.



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 DRAWINGS AT THIS DATE: 24/11/21  
 DESIGN & DRAWING OFFICE,  
 ORDNANCE FACTORY, TIRUCHIRAPPALLI-620 016.



**Material:**  
 Steel IS: 4454 Pt.1 2001 Gr. SH (or)  
 IS:4454: Pt.1 1981 Gr.3 (or)  
 BS: 5216: 1975 Sec.4 Code 'M' Gr.4

**Protective Finish:**  
 Accelerated Phosphating to Specn.  
 JSS: 0465-01-1994 Class II Oil Finish

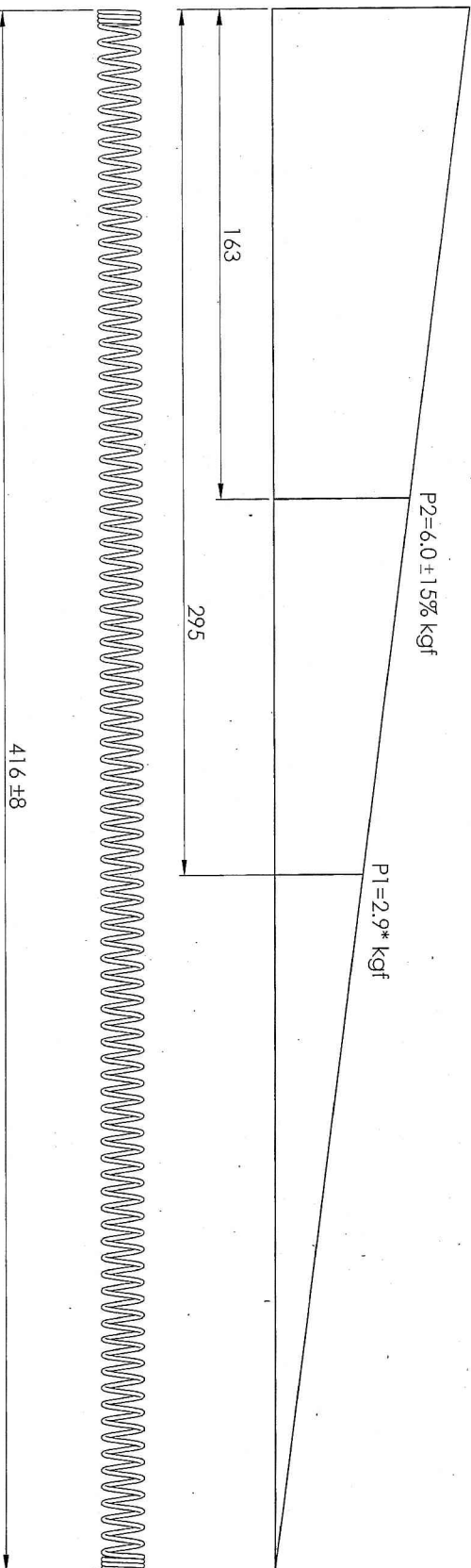
**Stress Relief:-**  
 200° c to 240° c for one Hour

Wire Dia. : 0.6 mm  
 No. of coils : 7.5±0.25  
 Direction of Wound : RH or LH.  
 Outer Dia. : 4.58±0.2 mm  
 Inner Dia. : 3.38±0.2 mm

One coil of each end to be closed in & ground square to the axis of the coil, leaving 3/4 of coil at each end non-effective.

**Cramp Test:**  
 Spring to be Tested before Gauging by compression to Solid Length for a period of 24 hours after which it must conform to the Free Length shown.

		SIGNATURE & DATE:	
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DRAWN		<i>pu</i>	
CHECKED			
OIC/D&DO		<i>P. Kumar</i>	
OFFICER/PRODN.			
DIV.OFFICER/D&DO		<i>Ge. K...</i>	
DA.No.: 40/21			
DT.: 27/07/2021			
AMENDMENTS		SIG. & DATE	APPROVED ON: 28/07/2021
<b>SUB: Spring Slide Catch</b> FOR: TRICHIY ASSAULT RIFLE OF: TRICHIY ASSAULT RIFLE DES. REF. NO. K-2024 / K-2024-EXP DRG. No.: K-2024*		SCALE NTS	SHEETS: 1
ORDNANCE FACTORY TIRUCHIRAPPALLI-16.		Weight (g)	SHEET No.: 1
		QPG 1	



Material:  
 Steel IS: 4454 Pt.1 2001 Gr. DH (or)  
 IS: 4454 Pt.1 1981 Gr. 4 (or)  
 BS: 5216: 1975 Sec.4 Code 'M' Gr.5

Protective Finish:  
 Accelerated Phosphating to Specn.  
 JSS: 0465-01-1994 Class II (Acc.) Oil Finish

Stress Relief:-  
 200 °C to 240 °C for one Hour

Wire Dia. : 1.2 mm  
 No. of coils : 9+2  
 Direction of Wound : R.H.  
 Outer Dia. : 11.4 ± 0.2 mm  
 Inner Dia. : 9.0 ± 0.2 mm

Two coils of each end to be closed in & ground square to the axis of the Coil, leaving 3/4 of coil at each end non-effective.

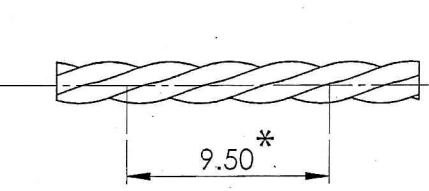
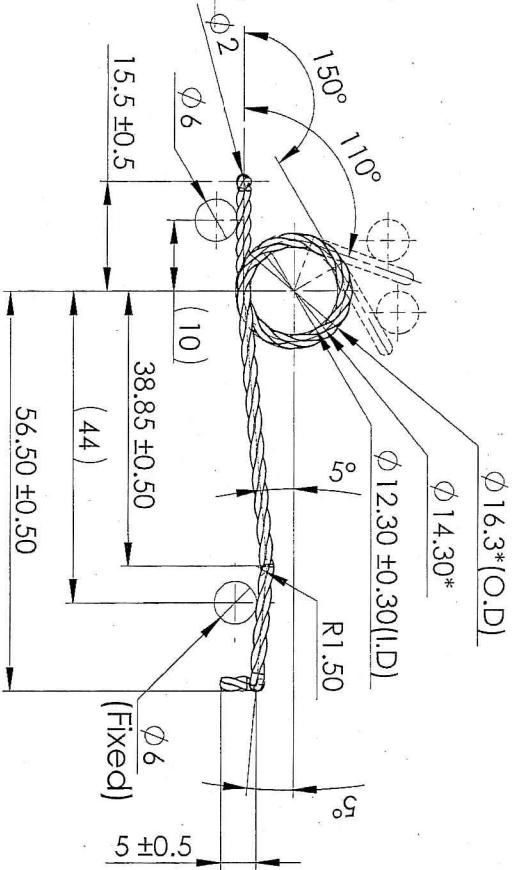
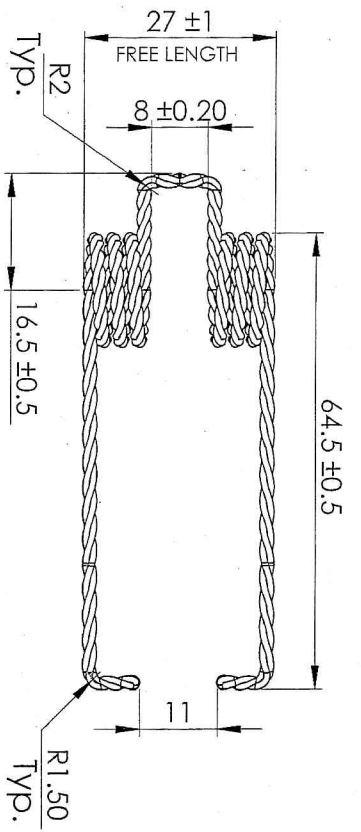
Cramp Test:  
 Spring to be tested before Gauging by compression to solid length for a period of 24 hours after which it must conform to the Free Length shown.

The spring to work freely in its loaded and unloaded condition over a tube of outer  $\phi$  8.7 mm.

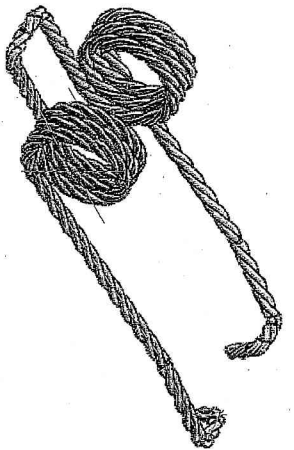
DIMENSIONS ARE IN. mm.  
 UNTOLERATED DIMENSIONS AS PER IS:2102(MED)

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 DRAWINGS AT THIS DATE: 29/11/21  
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 ORDNANCE FACTORY, TIRUCHIRAPPALLI-620 016.

TRACED	SIGNATURE & DATE:	SUB: Spring, Recoil	SCALE
DRAWN		FOR: Recoil Mech. Assy.	NTS
CHECKED		OF: TAR 7.62 mm	STORE DRG.NO.
HOS/D&DO		DES. REF. NO. K-2032 / K-2032-EXP	OPERATION NO.
OFFICER/PROJECT		DRG. No.: K-2032*	SHEETS: 1
OFFICER/D&DO		<b>ORDNANCE FACTORY</b> TIRUCHIRAPPALLI-16.	SHEET No.: 1
DA.No.: 40/21 DI.: 27/07/21			
AMENDMENTS & DATE	SIG. & DATE	APPROVED ON: 28/07/2021	



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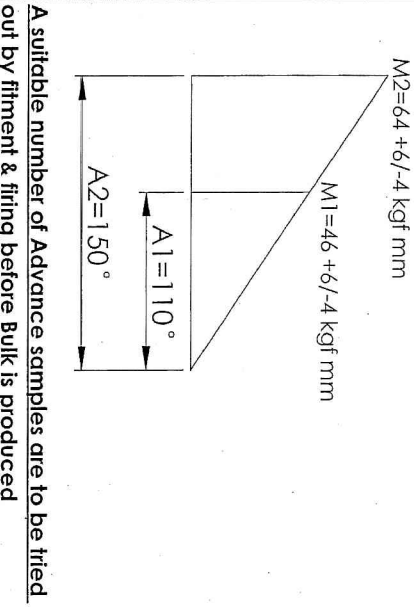
**Material:**  
 Steel IS: 4454 Pt.1 2001 Gr. SH (or)  
 IS: 4454 Pt.1 2001 Gr. DH  
 Alternate Material:  
 BS: 5216: 1975 Sec.4 Code 'M' Gr.5

**Protective Finish:**  
 Accelerated Phosphating to Specn.  
 JSS: 0465-01-1994 Class II, Oil Finish

**Tempering/Stress Relief:-**  
 200° c to 240° c for one Hour

**Wire Dia.:** φ 0.9 mm X 3 (Three strands)  
**No. of effective coils:** 3+3  
**Outer Dia.:** 16.3 \* mm  
**Inner Dia.:** 12.3 ± 0.3 mm  
**Direction of spring coiling:** One side Right Hand and  
 Other side Left Hand  
**Direction of Cable Braiding:** Left Hand

\* Sizes & Parameters are given for Reference



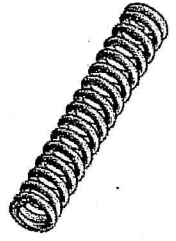
A suitable number of Advance samples are to be tied  
 out by fitment & firing before Bulk is produced

AMENDMENTS	SIG. & DATE
DA.No.67/21 Dt.22/12/2021	<i>[Signature]</i>

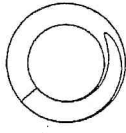
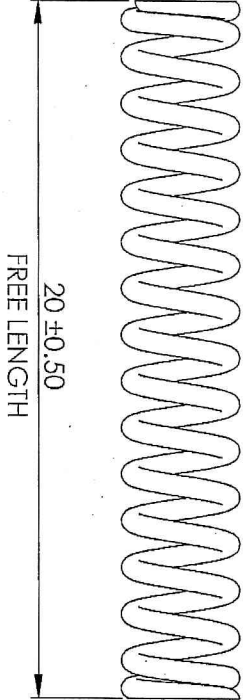
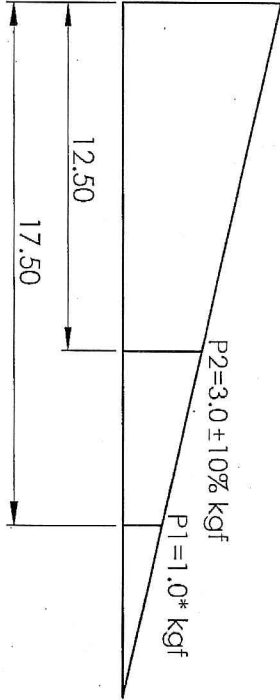
TRACED	SIGNATURE & DATE
DRAWN	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>
OIC/D&DO	<i>[Signature]</i>
OFFICER/ PRODN.	<i>[Signature]</i>
DV/OFFICER/ D&DO	<i>[Signature]</i>
APPROVED ON : 22/12/2021	

SUB: <b>Spring, Hammer Trigger</b>	SCALE
FOR: TRICHY ASSAULT RIFLE	NTS
DES. REF. NO. K-2063* / K-2063-EXP-2	QPG
DRG. No.: <b>K-2063*2</b>	Weight (g)
ORDNANCE FACTORY TRUICHIRAPPALLI-16.	SHEETS: 1
	SHEET No.: 1

SCALE	NTS
QPG	
Weight (g)	
SHEETS: 1	
SHEET No.: 1	



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**Material:**  
 Steel IS: 4454 Pt.1 2001 Gr. DH (or)  
 BS: 5216: 1975 Sec.4 Code 'M' Gr.5

**Protective Finish:**  
 Accelerated Phosphating to Specn.  
 JSS: 0465-01-1994 Class II, Oil Finish

**Stress Relief:-**  
 200 °c to 240 °c for one Hour

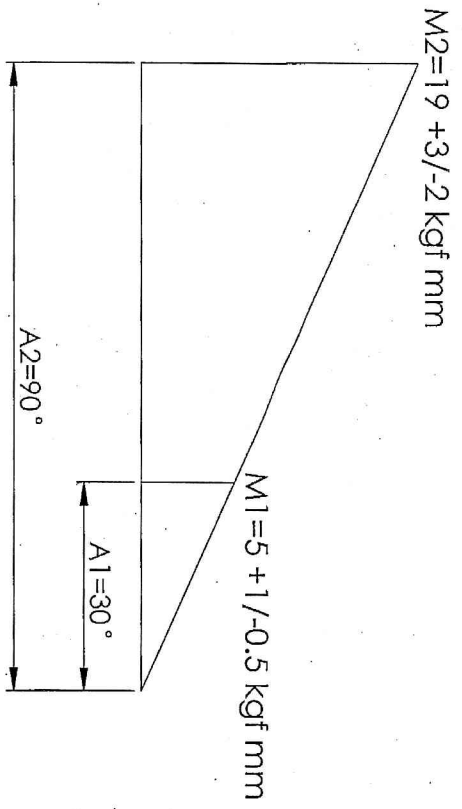
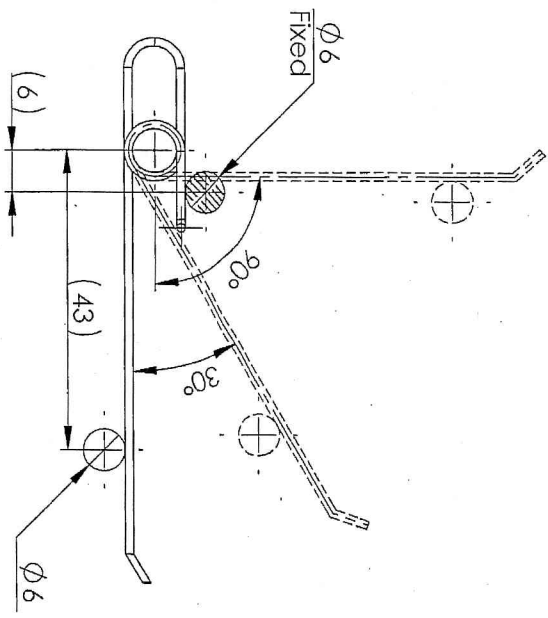
Wire Dia. : 0.6 mm  
 No. of coils : 16.5 ± 0.25  
 Direction of Wound : R.H or L.H.  
 Outer Dia. : 3.4 ± 0.2 mm  
 Inner Dia. : 2.2 ± 0.2 mm

One coil of each end to be closed in & ground square to the axis of the Coil, leaving 3/4 of coil at each end non-effective.

**Cramp Test:**  
 Spring to be Tested before Gauging by compression to Solid Length for a period of 24 hours after which it must conform to the Free Length shown.

The spring to work freely in its loaded and unloaded condition in a Hole of  $\varnothing$  4.3 mm.

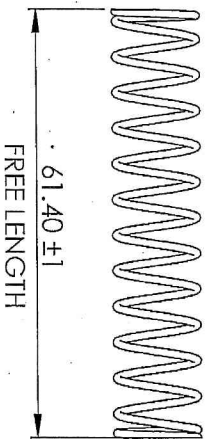
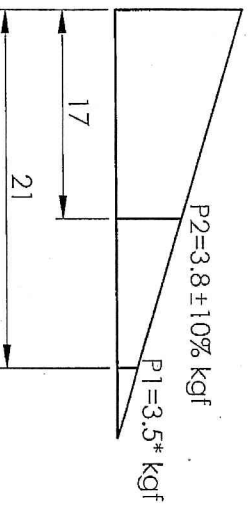
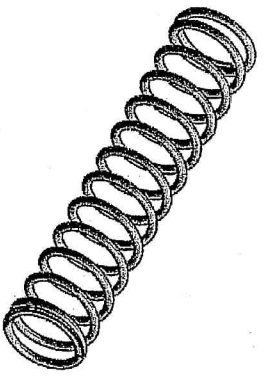
TRACED DRAWN CHECKED OIC/D&DO OFFICER/PRDN. DIV.OFFICER/D&DO APPROVED ON: 28/07/2021		SIGNATURE & DATE:      		SUB: <b>Spring, Disconnecter</b> FOR: General Assy. OF: TRICHY ASSAULT RIFLE DES. REF. NO. K-2066 / K-2066-EXP DRG. No.: K-2066*		SCALE NTS QPG 1 Weight (g) SHEETS: 1 SHEET No.: 1	
DA.No.: 40/21 DT.: 27/07/2021 AMENDMENTS		SIG. & DATE		ORDNANCE FACTORY TIRUCHIRAPPALLI-16.			



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**A suitable number of Advance samples are to be tried out by fiment & firing before Bulk is produced**

DA.No.: 40/21 DT.: 27/07/2021		SIG. & DATE	
TRACED	SIGNATURE & DATE.		
DRAWN			
CHECKED			
OIC/D&DO			
OFFICER/PRODN.			
DIV/OFFICER/D&DO			
APPROVED ON.	28/07/2021		
SUB: <b>Spring, Auto Sear</b>		SCALE NTS	
FOR: TRICHY ASSAULT RIFLE		QPG 1	
DES. REF. NO. K-2068* / K-2068-EXP		Weight (g)	
DRG. No.: K-2068*2		SHEETS: 2	
ORDNANCE FACTORY TIRUCHIRAPPALLI-16.		SHEET No.: 2	



**Material :**  
 Steel IS: 4454 Pt.1 2001 Gr. DH (or)  
 BS: 5216: 1975 Sec.4 Code 'M' Gr.5

**Protective Finish:**  
 Accelerated Phosphating to Specn.  
 JSS: 0465-01-1994 Class II, Oil Finish

**Stress Relief:-**  
 200 °c to 240 °c for one Hour

Wire Dia. : 1.1 mm  
 No. of coils : 13.5 ± 0.25  
 Direction of Wound : R.H or L.H.  
 Outer Dia. : 12.4 ± 0.2 mm  
 Inner Dia. : 10.2 ± 0.2 mm

One coil of each end to be closed in & ground square to the axis of the Coil, leaving 3/4 of coil at each end non-effective.

**Cramp Test:**  
 Spring to be Tested before Gauging by compression to Solid Length for a period of 24 hours after which it must conform to the Free Length shown.

\* sizes & parameters are given for reference

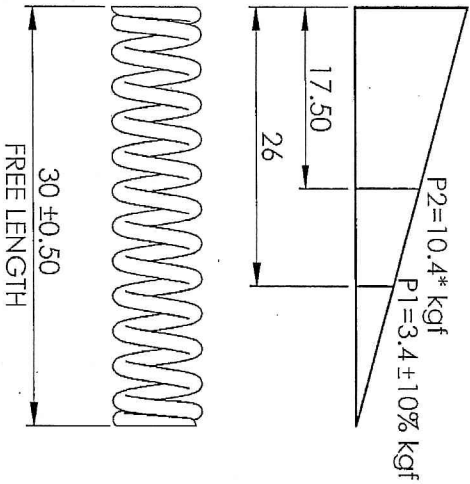
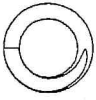
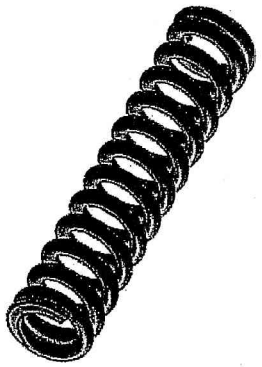
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DA.No.: 40/21 DT.: 27/07/2021		SIG. & DATE		APPROVED ON. 28/07/2021	
	TRACED		SIGNATURE & DATE		SUB: <b>Spring, Latch</b>
	DRAWN				FOR: Side Foldable Butt
	CHECKED				OF: TRICHY ASSAULT RIFLE
	OIC/D&DO				DES. REF. NO. : K-4005 / K-4005-EXP
	OFFICER/ PRODN.				DRG. No.: K-4005*
	DIV.OFFICER/ D&DO				Weight (g)
AMENDMENTS				SCALE NTS	
				QPG 1	
				SHEETS: 1	
				SHEET No.: 1	



ORDNANCE FACTORY  
 TRUCHIRAPPALLI-16.





**Material :**  
 Steel IS: 4454 Pt.1 2001 Gr. DH (or)  
 BS: 5216: 1975 Sec.4 Code 'M' Gr.5

**Protective Finish :**  
 Accelerated Phosphating to Specn.  
 JSS: 0465-01-1994 Class II, Oil Finish

**Stress Relief:-**  
 200 °C to 240 °C for one Hour

Wire Dia. : 1.1 mm  
 No. of coils : 13.5  $\pm 0.25$   
 Direction of Wound : R.H or L.H.  
 Outer Dia. : 6.4  $\pm 0.2$  mm  
 Inner Dia. : 4.2  $\pm 0.2$  mm

One coil of each end to be closed in & ground square to the axis of the Coil, leaving 3/4 of coil at each end non-effective.

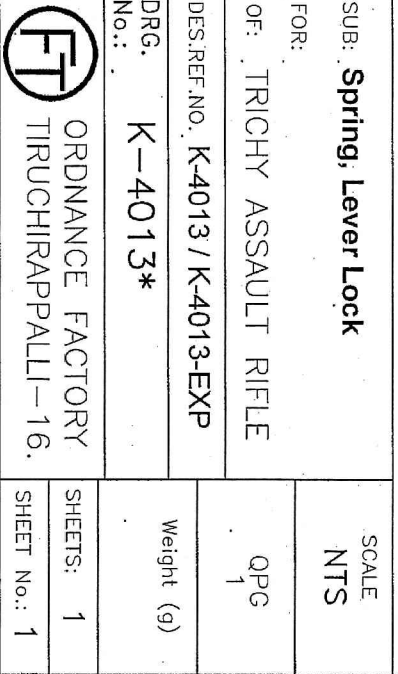
**Crimp Test:**  
 Spring to be Tested before Gauging by compression to Solid Length for a period of 24 hours after which it must conform to the Free Length shown.

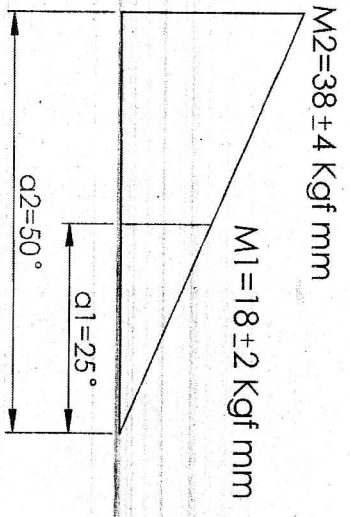
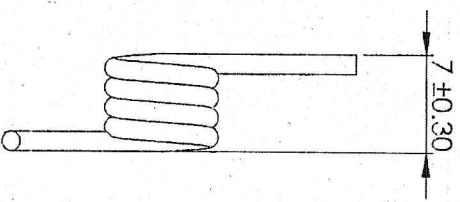
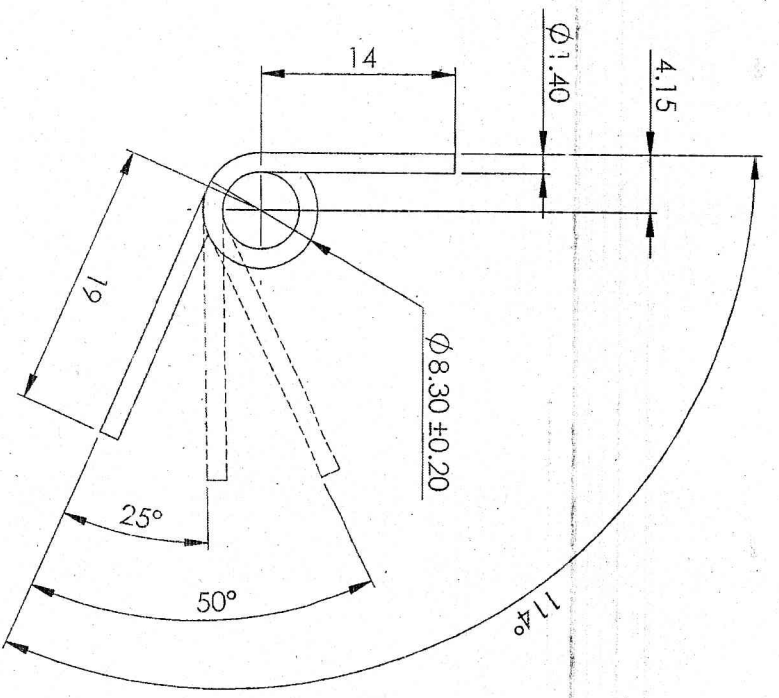
\* sizes & parameters are given for reference

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DA.No.: 40/21 DT.: 27/07/2021	SIG. & DATE	APPROVED ON: 28/07/2021	SUB: <b>Spring, Lever Lock</b>	SCALE NTS
			FOR: TRICHY ASSAULT RIFLE	QPG 1
			DES. REF. NO. K-4013 / K-4013-EXP	Weight (g)
			DRG. No.: K-4013*	SHEETS: 1
			ORDNANCE FACTORY TIRUCHIRAPPALLI-16.	SHEET No.: 1

TRACED	SIGNATURE & DATE:
DRAWN	
CHECKED	
OIC / D&DO	
OFFICER / PRODN.	
DIV/OFFICER / D&DO	





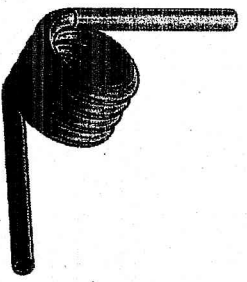
**Material:**  
 IS: 4454 Pt.1 2001 Gr. DH (or)  
 BS: 5216: 1975 Sec.4 Code 'M' Gr.5

**Protective Finish:**  
 Accelerated Phosphating to Specn.  
 JSS: 0465-01-1994 Class II, Oil Finish

**Stress Relief:-**  
 200° c to 240° c for one Hour

Wire Dia. : 1.4 mm  
 No. of coils : 4  
 Direction of Wound : LH  
 Outer Dia. : 8.3±0.2 mm  
 Inner Dia. : 5.5±0.2

Angular Tolerances are ±1°



Dimensions are in mm  
 Untolerated Dimns. as per IS:2102 (Med)

DA.No.: 40/21 DT.: 27/07/21	SIG. & DATE	SIGNATURE & DATE DATE DATE
DA.No.: 47/19 DT.: 26/11/19		
AMENDMENTS		
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OIC /D&DO		
OFFICER /		
PRODN.		
DIV.OFFICER /		
D&DO		
APPROVED ON. 28/07/2021		

SUB: <b>Spring, Catch Magazine</b>	SCALE NTS
FOR: TRICHY ASSAULT RIFLE	QPG 1
DES. REF. NO. K-11112* /K-11112-EXP	Weight (g)
DRG. No.: K-11112*2	SHEETS: 1
ORDNANCE FACTORY TIRUCHIRAPPALLI-16.	SHEET No.: 1

