

1.800 Pz/h su Wafios
Trasf 0,009
MP 0,011

INSTALLED POSITION

Ø 9.8
7 ± 0.5
R 3 ± 0.4
SHAFT SUPPORT

11.2 INSTALLED (INSIDE DIAMETER IN FREE POSITION)
Ø 11.8 ± 0.50 LV3

ISOMETRIC VIEW
SCALE: 1:1

LV3

LV3

NOTE FOR SPRINGS:
1. DIMENSIONS WITHIN BRACKETS ARE FOR REFERENCE ONLY
2. SPECIAL CHARACTERISTICS IDENTIFIED ON THE DRAWING (E.G. LV1 LV2 LV3) MUST BE INCLUDED IN THE CONTROL PLAN

1.1 SPRINGS MUST BE FREE OF BURRS, SHARP EDGES AND TOOL MARKS AFFECTING FIT OR FUNCTION
1.2 VIEWS AND DIMENSIONS ARE SHOWN IN INSTALLED POSITION, EXCEPT AS NOTED.
1.3 MAX. BODY LENGTH AT FULLY LOADED POSITION NOT TO EXCEED LENGTH OF SPACE AVAILABLE FOR SPRING BODY 9.80 mm.
1.4 MOMENTS TO BE CHECKED AT POSITIONS DEFINED BY SETUP
1.5 SPRING MUST PASS LIFE CYCLE TESTING IN A FIXTURE APPROVED BY MAGNA CLOSURES. TEST 8 SAMPLES FOR 1,500,000 CYCLES, OR 22 SAMPLES FOR 1,000,000 CYCLES.
1.6 SPRING TO WORK OVER 9.80mm DIAMETER SHAFT.
1.7 STIFFNESS 1.97 Nmm/deg
1.8 FRICTION BETWEEN COILS OF TORSION SPRING CAN BE UP TO 20% OF THE TOTAL MOMENT CAUSING A HYSTERESIS BETWEEN LOADING AND UNLOADING DIRECTION.
1.9 SPRING TO BE MEASURED IN LOADING DIRECTION
1.10 CLEARANCE BETWEEN COILS 0.1 mm.

NOTE FOR INERTIA:
8.1 ALL CHANGES TO THIS COMPONENT MUST BE EVALUATED FOR FMVSS 206 AND ECE 11 INERTIAL ANALYSIS IMPLICATIONS
NOTE FOR ELECTROGALVANIZED (Zn) (Zn) INCLUDED) AND HOT DIP GALVANIZED (MAGNETIC) PARTS:
11.1 CORROSION PROTECTION: AS2/-NV/-E/ING/NT/NL/- PER RENEULT 47-01-000-E
11.2 PRE-COATED WIRE BEZINAL 95%Zn+5%AL
11.3 MUST WITHSTAND MIN 240 HOURS SALT SPRAY TEST
11.4 DIMENSIONS APPLY AFTER PLATING

TORSION SPRING
MATERIAL SH-2N
SURFACE TREATMENT
EN 10270-1 NOV. 2011
WIRE DIAMETER Ø 0.30 ± 0.015
INNER DIAMETER IN FREE POSITION Ø 11.8 ± 0.5
INNER DIAMETER IN AZ POSITION Ø 11.2
N° OF COILS IN FREE POSITION 6.228
APPROX. ANGLE IN FREE POSITION (A) 85.1°
TORQUE IN FREE POSITION (T) 150.110N·m
MEASURED AS SHOWN
TORQUE IN AZ POSITION (T) 229.5 ± 10N·m
MEASURED AS SHOWN
HELIX DIRECTION RIGHT
PATENT LIFE MUST EXCEED 1,500,000 CYCLES BETWEEN T1 AND T2

REV	DESCRIPTION OF CHANGE	DATE (DD/MM/YY)	DESIGNER	CHECKER	NOTIFICATION N°
1	INCREASED MIN LENGTH (11mm), REMOVED CHARACTERISTICS ADJUSTED TO ASSEMBLY DESIGN.	18/02/10	SKAMERDINI P.	CASALINI P.	ECN 18-015-PO
2	WEIGHT CORRECTED.				
3	DESCRIPTION OF CHANGE				
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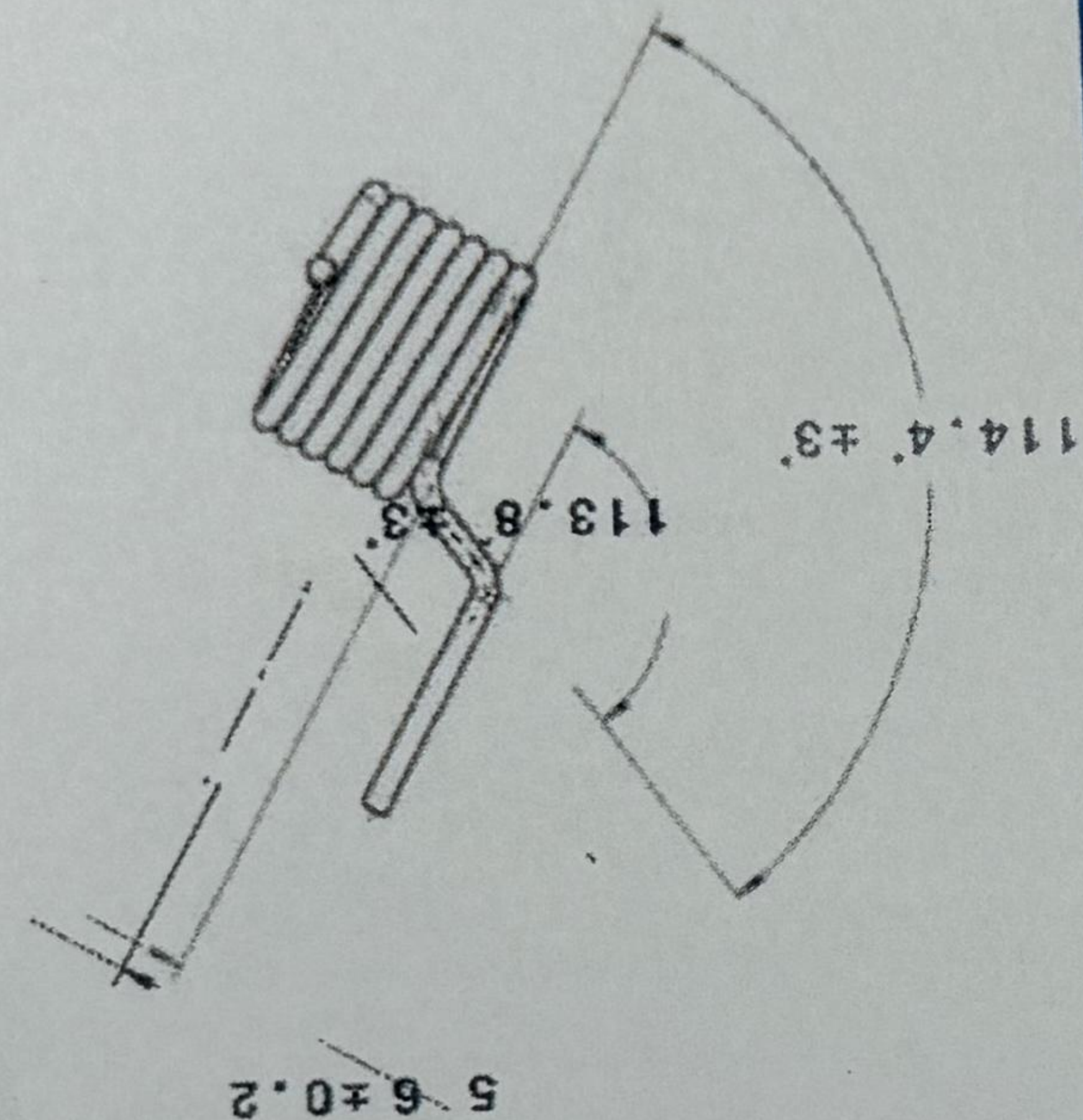
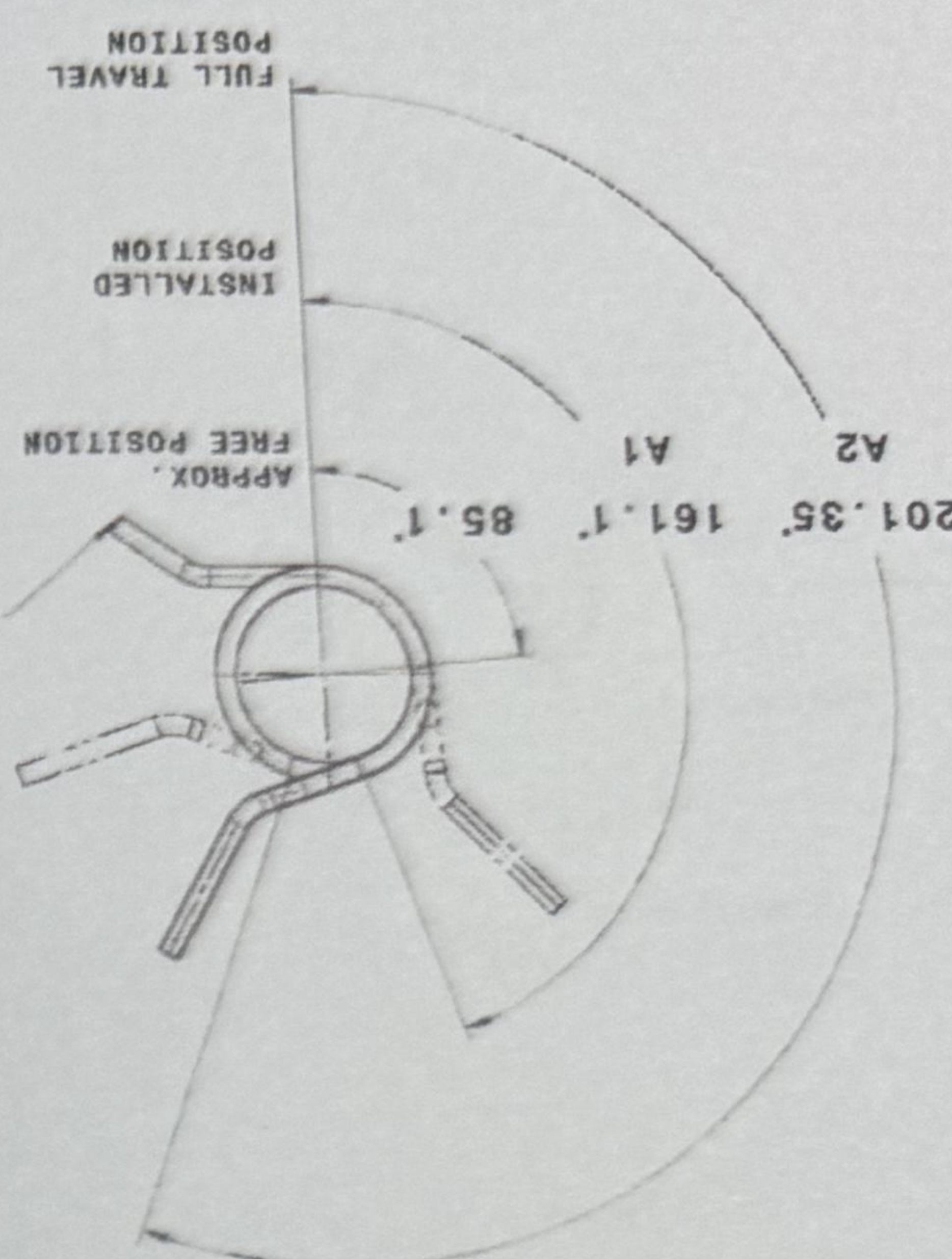
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Scale: 2:1
Auxiliary view A

Finale
Finale

Quota da misurare esterna
10.6 ± 0.4 mm

10.1 ± 0.4 LV3



6/13