



User Instructions

Female Joint Kit for Stationary Transducers

MAN 874 : Issue 9 Crane Electronics Ltd

UTA JOINT KITS FOR STATIONARY TORQUE TRANSDUCERS

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Declares that this UTA Female Joint Kit for Stationary Transducers has been assessed and complies with the requirements of the relevant CE Directives.

SUMMARY

This joint kit is designed as a convenient, repeatable, variable stiffness joint for assessing the performance of torque tools in a practical way. It can be used with the Crane Electronics range of female square drive stationary (static) transducers.

Each kit may be assembled in different ways to vary the stiffness of the joint. Reference should be made to TABLE 1 to select from the available options. Care should be taken to ensure that as well as choosing the most suitable stiffness, the maximum torque for the joint is not exceeded. Please note that the joint kit is not designed to provide an exact joint stiffness.

Torque tools are influenced by joint hardness. For a more accurate assessment of how your torque tool will perform in production use, Crane recommends the use of an in line transducer (such as CheckStar) to take joint variability into account. See back page for dimensions.

IMPORTANT

Grease the threads before fitting the nut.

Ensure that the threads are kept lubricated.

NOTE: For greasing the threads, a Moly based, high temperature, high impact K48 type grease should be used, and a suitable solvent for cleaning - i.e. a trichoethylene based solvent or substitute. (CEL recommends an industrial rapid drying spray cleaner.) Threads should be cleaned and greased every 50-100 cycles. Eventually the bolt and nut threads will wear and these will require replacement. Use only official CEL replacement parts.

NOTICE

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TABLE 1

		MAX TORQUE					
	JOINT KIT	Nm Ibin		1st Stack	2nd Stack	SPACER(S) mm	
SOFT	1/4"	5.6 13.6 21.5 28.25 28.25	50 120 190 250 250	3 6 12 24 -	3 6 12 -	17.1 11.5 - - 11.5+12.3	
SOFT			ft lb				
HARD	3/8"	67.8 120 135 135	50 90 100 100	5 9 16 -	5 9 -	15.5 - 5 5+18.6+15.5	
SOFT HARD	1/2"	135.6 220 271 271	100 160 200 200	5 9 9 -	5 9 -	19.5 - 23.3 3.9+23.3+19.5	
SOFT HARD	3/4"	460 830 775 1017	340 610 570 750	5 10 10 -	5 10 - -	39.5 - 41.3 39.2+41.3	
SOFT HARD	1"	847 1600 1400 1695	625 1180 1030 1250	3 5 9	3 5 -	24 - 8 8+24+32	

PACKING LIST

Each Joint Kit contains the following Items;

1X THRUST PLATE
1X SPACER SET
DISC SPRING WASHERS (See table below for quantity)
1X HARD WASHER
1X GUIDE BOLT
1 x NUT
1X SHROUD

Please check these items are all present. Notify Crane Electronics Ltd (CEL) immediately of any shortages. Use the diagrams overleaf to identify the arrangement of these items.

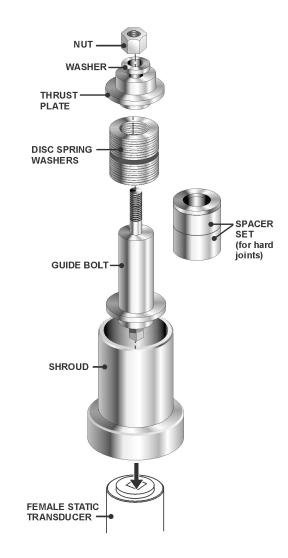
JOINT KIT PART NUMBERS						
Part No.	Size	Description	No. of Disc Spring Washers			
JK-874-06CR-28-0	1/4"	FEMALE JOINT KIT	24			
JK-874-07CR-135-0	3/8"	FEMALE JOINT KIT	18			
JK-874-08CR-271-0	1/2"	FEMALE JOINT KIT	18			
JK-874-09CR-1017-0	3/4"	FEMALE JOINT KIT	20			
JK-874-10CR-1695-0	1"	FEMALE JOINT KIT	10			

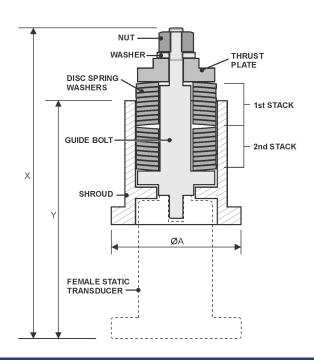
BOLT KIT PART NUMBERS (For female joint kits and table top joint kits)					
Part No.	Size	Description			
JK-874-13CR-0-0	1/4"	FEMALE BOLT KIT			
JK-874-14CR-0-0	3/8"	FEMALE BOLT KIT			
JK-874-15CR-0-0	1/2"	FEMALE BOLT KIT			
JK-874-16CR-0-0	3/4"	FEMALE BOLT KIT			
JK-874-17CR-0-0	1"	FEMALE BOLT KIT			

SPARES PARTS LIST						
SIZE	THRUST PLATE	SPACER SET	DISC SPRING WASHERS	HARD WASHER	SHROUD	
1/4"	1401398	1401399	1401416 (x24)	1401505	1403808	
3/8"	1401402	1401403	1401417 (x18)	1401506	1403809	
1/2"	1401406	1401407	1401418 (x18)	1401507	1403810	
3/4"	1401410	1401411	1400407 (x20)	1401508	1403811	
1"	1401414	1401415	1401419 (x10)	1401509	1403812	

DIMENSIONS

JOINT KIT	ØA	Х	Y	NUT	BOLT A/F	PITCH Ømm
1/4"	100	137	119	13	M8	1.25
3/8"	100	166	143	19	M12	1.75
1/2"	100	197	165	24	M16	2.00
3/4"	150	268	229	36	M24	3.00
1"	150	281	230	46	M30	3.50









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