Expander® System Straight Pin

INSTALLATION INSTRUCTIONS

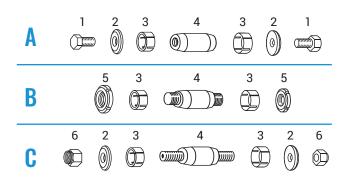


6.0

Congratulations

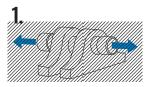
You have purchased a custom engineered solution to the pivot wear problem on your machine. Contact your dealer or Expander before proceeding if you have any questions.

- A. Inner thread with bolt
- B. Outer thread with spanner nut
- C. Outher thread with nut

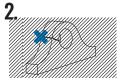


1 Bolt 2 Washer 3 Sleeve 4 Axle (Pin) 5 Spanner nut 6 Nut

Preparation



Remove any bushings in the lugears to eliminate future wear between the bushing and the mounting lug.



Repair any structural damage i.e. cracks or bent lug ears before installation.



Smooth out irregularities and clean the bore surfaces.



The difference between min and max diameter in the worn lugs must be within 1.5 mm (.06") for the sleeves to fit correctly.

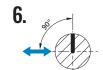
ATTENTION! If the worn lugs diameter at any point is 2 mm (.080") or more over original lug diameter contact your dealer or Expander System. You will need oversized sleeves.



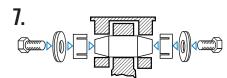
Installation

5.

Lubricate the axle with available lubrication. Graphite grease is not to be used on threads.



NOTE! If applicable: position greasing outlet 90 degrees to force direction to minimize stress concentration at outlet.



Insert the axle and position it in the bores. Install the sleeves, then the tension washers and fasteners. Cross-tighten the fasteners with torque as specified.

Torque recommendations

R Hex Bolts

Torques M12-M24 ±10%, M30... +30/-0%

	M12	M14	M16	M20	M24	M30	M36	M42
lb-ft	52	85	129	258	369	443	516	664
Nm	70	115	175	350	500	600	700	900

Hex Nuts: Standard Height

Torques M12-M24 ±10%, M30... +30/-0%

	M12	M14	M16	M20	M24	M30	M36	M42
lb-ft	48	85	129	184	258	369	443	516
Nm	65	115	175	250	350	500	600	700

Hex Nuts: Low Height

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Δ	ш	10	rai	IDC	+ 1	10%

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	M12	M16	M20	M24	M30	
lb-ft	44	92	148	203	258	
Nm	60	125	200	275	350	

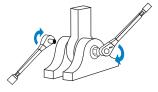
Spanner Nuts

ΔII	Torque +	10%

•										
		M17	M25	M35	M45	M55	M65	M75	M85	
	lb-ft	37	89	184	369	443	516	590	664	
	Nm	50	120	250	500	600	700	800	900	

Final Check





After initial torque, grease the pivot (if applicable), move the machine through full range of motion several times and recheck the torque. Check the torque after 10 hours, 40 hours and at regular service intervals to ensure proper seating of the sleeves.

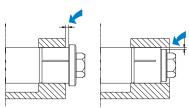
Dismounting





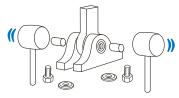
To dismount the Expander System, unscrew the fasteners on both sides and remove the washers.





Ensure that there is a minimum distance of 0,5 mm (0.02") between the washer and the lug. NOTE! If flange design for easy removal of the sleeve is used there should be a minimum distance of 6 mm. ATTENTION! If the washer is in contact with the lug, contact your dealer or Expander System.





Tap the axle alternatively on each side until the tension on the sleeves is released (use a piece of pipe between the axle and the mallet/hammer not to damage the threads). Remove the sleeves and axle. Do not damage the threads.