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Dana Yoke Nut Torque Specifications

Yoke End Nut Application & Torque Information

Important Installation Reminder: Proper Yoke Installation is Critical

We've seen an increasing number of warranty claims related to improperly secured input and output yokes. Failure to properly torque and secure these components can negatively impact drivetrain performance and lead to premature failure or costly comebacks. To help prevent these issues, please refer to the chart below during every yoke installation. It includes recommended torque specifications and best practices to ensure a secure, long-lasting connection.

Spicer Axle Models

Model	Nut Position	Metric Thread Size	Nut Part No.	Washer Part No.	Nut Torque (lb-ft)	Socket Size
DS344 DA344						
DS404-(P) DD404-(P) DA404-(P)	Forward Rear Input	M42 x 1.5	128049	None	840-1020	55mm
DS405-(P) DD405-(P) DA405-(P)	Forward Rear Output	M39 x 1.5	127588	None	680-832	55mm
	Rear Rear Input	M36 x 1.5	127589	None	575-703	55mm
DS454-P DD454-P DA454-P						

After 1/1/95

Model	Nut Position	Metric Thread Size	Nut Part No.	Washer Part No.	Nut Torque (lb-ft)	Socket Size
DS341 DC341 DP341 DT341						
DS402-(P) DC402-(P) DP402-(P) DT402-(P)						
DS403-P DC403-P DP403-P DT403-P	Forward Rear Input	M42 x 1.5	128049	None	840-1020	55mm
	Forward Rear Output	M36 x 1.5	127589	None	575-703	55mm
DS451-P DC451-P DP451-P DT451-P	Rear Rear Input	M36 x 1.5	127589	None	575-703	55mm

After 7/1/95

Model	Nut Position	Metric Thread Size	Nut Part No.	Washer Part No.	Nut Torque (lb-ft)	Socket Size
DT402-(P) DP402-(P) DT451-P DP451-P						

Spicer Axle Models

Model	Nut Position	Metric Thread Size	Nut Part No.	Washer Part No.	Nut Torque (lb-ft)	Socket Size
DS461-P DC461-P DD461-P DP461-P DT461-P	Forward Rear Input	M48 x 1.5	126155	126242	840-1020	70mm
DS521-P DC521-P DD521-P DP521-P	Forward Rear Output	M42 x 1.5	210508	210509	789-966	55mm
	Rear Rear Input	M42 x 1.5	210508	210509	789-966	55mm
DP601-P DP651-P DP652-P						

Spicer Axle Models	Nut Position	Metric Thread Size	Nut Part No.	Washer Part No.	Nut Torque (lb-ft)	Socket Size
D170/DP R170/D	Forward	M48 x 1.5	131095K	—	800-1000	—
	Rear	M48 x 1.5	131095K	—	800-1000	—
	Output	M42 x 1.5	128049	—	800-1000	—

Spicer Axle Models	Nut Position	Metric Thread Size	Nut Part No.	Washer Part No.	Nut Torque (lb-ft)	Socket Size
D190/DP R190/D	Forward	M48 x 1.5	131095K	—	800-1000	—
	Rear	M48 x 1.5	131095K	—	800-1000	—
	Output	M42 x 1.5	128049	—	800-1000	—

Installation Tip:

Always verify fastener torque with a calibrated torque wrench and double-check for proper seating and alignment.

Avoid Preventable Issues – Install It Right the First Time!

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Spicer Axle Models	Metric/English Thread Size	Nut Part No.	Washer Part No.	Nut Torque (lb-ft)	Socket Size
15040 S/T/P 19050 S/T/P	M30 x 1.5	210133	210114	376-461	41mm
19060 S/D/A/T/P 21060 S/D/A/T/P 22060 S/D/A/T/P	M36 x 1.5	127589	None	575-703	55mm
21080 S/D/A 22080 S/D/A 23080 S/D/A 26080 S/A 30080 S	M42 x 1.5	128049	None	840-1020	55mm
23080 T/P 26080 T/P	M42 x 1.5	210508	210509	789-966	55mm
23105 S/D/A 26105 S/D/A 30105 S/D/A	1.750-12UN	95262	None	840-1020	2-1/4"
30055 P 35055 P	M42 x 1.5	210508	210509	789-966	55mm
19055 S/D/T/P 21065 S/D/T/P 22065 S/D/T/P	M36X1.5	127589	None	575-703	55mm
23070 S/D/T/P	M42 x 1.5	210508	210509	789-966	55mm
23085 S/D	M42 x 1.5	128049	None	840-1020	55mm
23085 T/P 26085 T/P	M42 x 1.5	210508	210509	789-966	55mm
15130 15131	M30 x 1.5	210133	210114	376-461	41mm
16130 16131 16930 16931	M30 x 1.5	210133	210114	376-461	41mm
17130 17131 17133	M36 x 1.5	127589	None	575-703	55mm
17430 17431 17433 17830 17831	M36 x 1.5	127589	None	575-703	55mm

Spicer Axle Models	Metric/English Thread Size	Nut Part No.	Washer Part No.	Nut Torque (lb-ft)	Socket Size
21130 21131 21430 21431 21830 21831	M36 x 1.5	127589	None	575-703	55mm
22130 22131 22133 22431	M36 x 1.5	127589	None	575-703	55mm
23130 23131 23133	M42 x 1.5	210508	210509	789-966	55mm
23430 23431 23433 26431 30431	M42 x 1.5	210508	210509	789-966	55mm
23830 23831 23930 23931	M42 x 1.5	210508	210509	789-966	55mm
13100	1.000-20UNEF	95203	23991	360-440	1-1/2"
15100 15103 15107	1.000-20UNEF	95203	23991	360-440	1-1/2"
16120 16199	1.125-18UNEF	95204	127831	360-440	1-5/8"
17100 17103 17120 17123	1.250-12UNF	95205	4327	480-600	1-3/4"
17400 17420 17423	1.250-12UNF	95205	4327	480-600	1-3/4"
21121 21421	1.500-18UNEF	95206	56864	560-700	2-1/4"
22120 22123 22420	1.500-18UNEF	95206	56864	560-700	2-1/4"
23120 23123	1.750-12UN	95262	None	840-1020	2-1/4"
23420 23423 26420	1.750-12UN	95262	None	840-1020	2-1/4"

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Meritor Yoke Nut Torque Specifications

Input & Output Yoke Pinion Nut Fastener Torque Specifications

Table U: Single & Rear of Tandem Axle		AXLE MODEL				
Pinion Nut Location	RS-120, RS-125, RS-140	RS-144/145, MS-14X (hypoid)	RF-166, RS-160, RS-161, RS-185, RS-186	RS-210, RS-220, RS-230	RS-240	RS-380
Carrier Input Yoke	740-920 lb-ft (1000-1245 N•m)	920-1130 lb-ft (1250-1535 N•m)	1000-1230 lb-ft (1350-1670 N•m)	740-920 lb-ft (1000-1245 N•m)	740-920 lb-ft (1000-1245 N•m)	800-1100 lb-ft (1085-1496 N•m)
Fastener Size	M32 x 1.5	M39 x 1.5	M45 x 1.5	M32 x 1.5	M39 x 1.5	1-1/2 - 12 UNF

Table T: Tandem Axles		AXLE MODEL				
Pinion Nut Location	RT-140	RT-145, RT-149	RT-160, RT-164, RT-169	RT-185	RT-380 w/ IAD	RT-380 w/o IAD
First Carrier Input Yoke	750-850 lb-ft (1020-1150 N•m)	750-850 lb-ft (1020-1150 N•m)	750-850 lb-ft (1020-1150 N•m)	750-850 lb-ft (1020-1150 N•m)	750-850 lb-ft (1020-1150 N•m)	900-1200 lb-ft (1224-1632 N•m)
Fastener Size	M45 x 1.5	M45 x 1.5	M45 x 1.5	1-3/4 - 12 UN	1-3/4 - 12 UN	1-3/4-12UN
First Carrier Output Yoke*	600-700 lb-ft (815-950 N•m)	600-700 lb-ft (815-950 N•m)	600-700 lb-ft (815-950 N•m)	600-700 lb-ft (815-950 N•m)	600-700 lb-ft (815-950 N•m)	600-700 lb-ft (815-950 N•m)
Fastener Size	M32 x 1.5	M39 x 1.5	M39 x 1.5	1-1/2 - 12 UNF	1-1/2 - 12 UNF	1-1/2 - 12 UNF
Second Carrier Input Yoke*	740-920 lb-ft (1000-1245 N•m)	920-1130 lb-ft (1250-1535 N•m)	1000-1230 lb-ft (1350-1670 N•m)	1000-1230 lb-ft (1350-1670 N•m)	800-1100 lb-ft (1085-1496 N•m)	800-1100 lb-ft (1085-1496 N•m)
Fastener Size	M32 x 1.5	M39 x 1.5	M45 x 1.5	M45 x 1.5	1-1/2 - 12 UNF	1-1/2 - 12 UNF

Table U: Tridem Axles		AXLE MODEL			
Pinion Nut Location	RZ-164	RZ-166	RZ-186	RZ-188	
First Carrier Input Yoke	600-800 lb-ft (815-1085 N•m)	600-800 lb-ft (815-1085 N•m)	600-800 lb-ft (815-1085 N•m)	600-800 lb-ft (815-1085 N•m)	
Fastener Size	M45 x 1.5	M45 x 1.5	1-3/4 - 12 UN	1-3/4-12 UN	
First Carrier Output Yoke	450-650 lb-ft (610-880 N•m)	450-650 lb-ft (610-880 N•m)	450-650 lb-ft (610-880 N•m)	450-650 lb-ft (610-880 N•m)	
Fastener Size	M39 x 1.5	M39 x 1.5	1-1/2 - 12 UNF	1-1/2 - 12 UNF	
Second Carrier Input Yoke	600-800 lb-ft (815-1085 N•m)	600-800 lb-ft (815-1085 N•m)	600-800 lb-ft (815-1085 N•m)	600-800 lb-ft (815-1085 N•m)	
Fastener Size	M45 x 1.5	M45 x 1.5	M45 x 1.5	1-3/4-12UN	
Second Carrier Output Yoke	450-650 lb-ft (610-880 N•m)	450-650 lb-ft (610-880 N•m)	450-650 lb-ft (610-880 N•m)	450-650 lb-ft (610-880 N•m)	
Fastener Size	M39 x 1.5	M39 x 1.5	M39 x 1.5	1-1/2 - 12 UNF	
Third Carrier Input Yoke	920-1130 lb-ft (1250-1535 N•m)	1000-1230 lb-ft (1350-1670 N•m)	1000-1230 lb-ft (1350-1670 N•m)	1000-1230 lb-ft (1350-1670 N•m)	
Fastener Size	M39 x 1.5	M45 x 1.5	M45 x 1.5	M45 x 1.5	

*Apply Loctite® 277 threadlocker to the input shaft threads before installing the nut.

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