

Meritor Yoke Nut Torque Specs

Input and Output Yoke Pinion Nut Fastener Torque Specifications

Table U: Single and Rear of Tandem Axles

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	740-920 lb-ft	920-1130 lb-ft	1000-1230 lb-ft	740-920 lb-ft	740-920 lb-ft	800-1100 lb-ft
Input Yoke	(1000-1245 N•m)	(1250-1535 N•m)	(1350-1670 N•m)	(1000-1245 N•m)	(1000-1245 N•m)	(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 With IAD	RT-380 Without 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 - 12 UN
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

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

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 - 12 UN
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

Dana Yoke Nut Torque Specs

Subject: Yoke end nut application and torque information.

Spicer Axle Models	Nut Position	Metric Thread Size	Nut Part#	Washer Part#	Nut Torque (lb-ft)	Socket Size
DS344 DA344						
	FORWARD REAR INPUT	M42X1.5	128049	None	840-1020	55mm
DS404-(P) DD404-(P) DA404-(P)						
	FORWARD REAR OUTPUT	M39X1.5	127588	None	680-832	55mm
DS405-(P) DD405-(P) DA405-(P)						
DS454-P DD454-P DA454-P	REAR REAR INPUT	M36X1.5	127589	None	575-703	55mm
(After 1JAN95) DS341 DC341 DP341 DT341						
DS402-(P) DC402-(P) DP402-(P) DT402-(P)	FORWARD REAR INPUT	M42X1.5	128049	None	840-1020	55mm
DS403-P DC403-P DP403-P DT403-P						
	FORWARD REAR OUTPUT	M36X1.5	127589	None	575-703	55mm
DS451-P DC451-P DP451-P DT451-P (After 1JUL95) DT402-(P) DP402-(P)						
	REAR REAR INPUT	M36X1.5	127589	None	575-703	55mm
DT451-P DP451-P						
DS461-P DC461-P DD461-P DP461-P DT461-P DS521-P DC521-P DD521-P DP521-P	FORWARD REAR INPUT	M48X1.5	126155	126242	840-1020	70mm
	FORWARD REAR OUTPUT	M42X1.5	210508	210509	789-966	55mm
DP601-P						

DP651-P DP652-P	REAR REAR INPUT	M42X1.5	210508	210509	789-966	55mm
D170/DP R170/D	FORWARD REAR OUTPUT	M48 x 1.5 M48 x 1.5 M42 x 1.5	131095K 131095K 128049		800-1000 800-1000 800-1000	
D190/DP R190/D	FORWARD REAR OUTPUT	M48 x 1.5 M48 x 1.5 M42 x 1.5	131095K 131095K 128049		800-1000 800-1000 800-1000	

Spicer Axle Models	Metric/English Thread Size	Nut Part#	Washer Part#	Nut Torque (lb-ft)	Socket Size
15040 S/T/P 19050 S/T/P	M30X1.5	210133	210114	376-461	41mm
19060 S/D/A/T/P 21060 S/D/A/T/P 22060 S/D/A/T/P	M36X1.5	127589	None	575-703	55mm
21080 S/D/A 22080 S/D/A 23080 S/D/A 26080 S/A 30080 S	M42X1.5	128049	None	840-1020	55mm
23080 T/P 26080 T/P	M42X1.5	210508	210509	789-966	55mm
23105 S/D/A 26105 S/D/A 30105 S/D/A	1.750-12UN	95262	None	840-1020	21/4Inch
30055 P 35055 P	M42X1.5	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	M42X1.5	210508	210509	789-966	55mm
23085 S/D	M42X1.5	128049	None	840-1020	55mm
23085 T/P 26085 T/P	M42X1.5	210508	210509	789-966	55mm

Spicer Axle Models	Metric Thread Size	Nut Part#	Washer Part#	Nut Torque (lb-ft)	Socket Size
15130 15131	M30X1.5	210133	210114	376-461	41mm
16130 16131 16930 16931	M30X1.5	210133	210114	376-461	41mm
17130 17131 17133	M36X1.5	127589	None	575-703	55mm
17430 17431 17433 17830 17831	M36X1.5	127589	None	575-703	55mm
21130 21131 21430 21431 21830 21831	M36X1.5	127589	None	575-703	55mm
22130 22131 22133 22431	M36X1.5	127589	None	575-703	55mm
23130 23131 23133	M42X1.5	210508	210509	789-966	55mm
23430 23431 23433 26431 30431	M42X1.5	210508	210509	789-966	55mm
23830 23831 23930 23931	M42X1.5	210508	210509	789-966	55mm

Spicer Axle Models	English Thread Size	Nut Part#	Washer Par#	Nut Torque (lb-ft)	Socket Size
13100	1.000-20UNEF	95203	23991	360-440	1 1/2 Inch
15100 15103 15107	1.000-20UNEF	95203	23991	360-440	1 1/2 Inch
16120 16199	1.125-18UNEF	95204	127831	360-440	1 5/8 Inc
17100 17103 17120 17123	1.250-12UNF	95205	4327	480-600	1 3/4 Inch
17400 17420 17423	1.250-12UNF	95205	4327	480-600	1 3/4 Inch
21121 21421	1.500-18UNEF	95206	56864	560-700	2 1/4 Inch
22120 22123 22420	1.500-18UNEF	95206	56864	560-700	2 1/4 Inch
23120 23123	1.750-12UN	95262	None	840-1020	2 1/4 Inc
23420 23423 26420	1.750-12UN	95262	None	840-1020	2 1/4 Inch