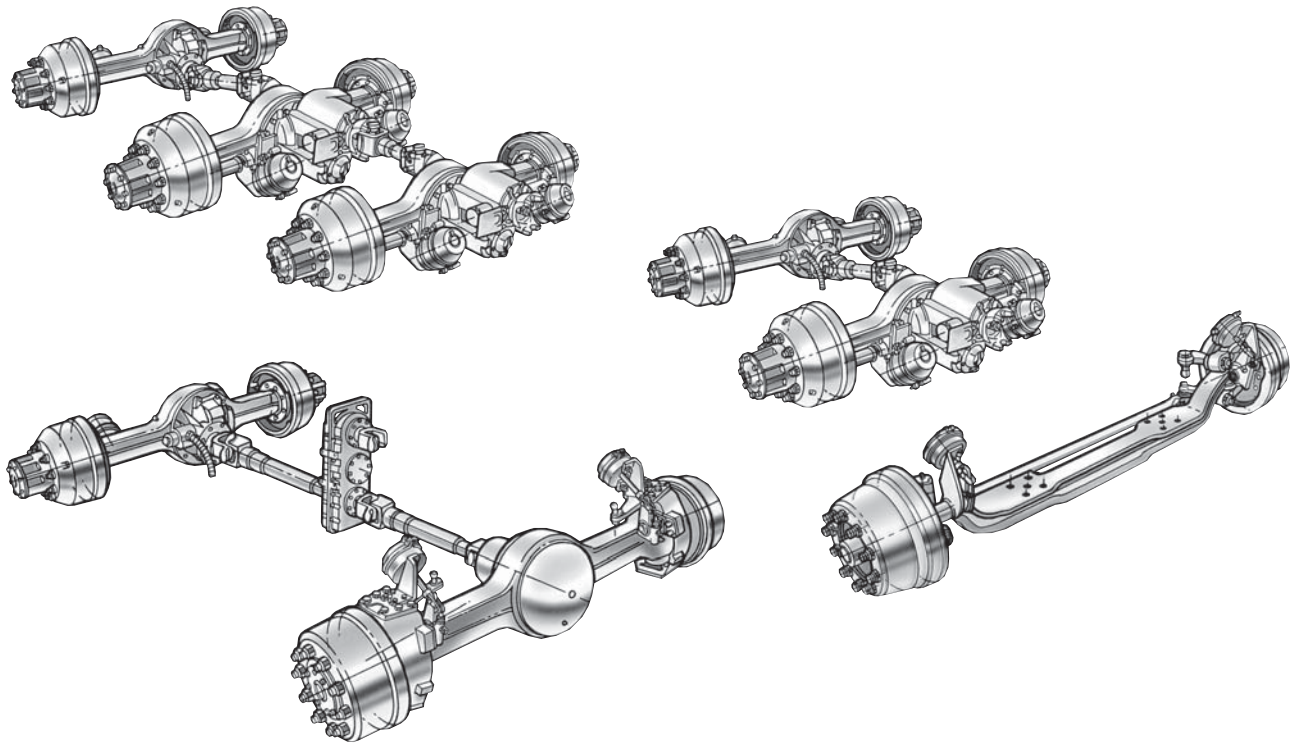
MERITOR

Component Reference Guide TP-7824

Truck and Tractor Axle Specifications

Includes Transfer Cases

Revised 01-22



Truck and Tractor Axle, Brake and Transfer Case Applications and Ratings

The permitted use of axles, brakes, transfer cases and other components, including the capacity ratings that are shown, vary with application and service. Applications and installation must be approved by Meritor's engineering departments.

Failure to gain applications approval, or use of componentry in non-approved applications can void Meritor's warranty. Refer to publication TP-9441, Axle Application Guidelines, for vocational guidelines on axle applications.

Variations in tire size, transmissions, engine power and torque, duty cycle and route terrain affect application approvals. All ratios are not necessarily approvable for the gross axle weight (GAW) and gross combination weight (GCW) limits listed.

Driveline Application Guidelines

Refer to publication TP-12126, Driveline Application Guidelines, for information on Meritor driveline applications.

How to Obtain Additional Information

Contact your Meritor DriveForce™ representative or call the Meritor OnTrac™ Customer Call Center at 866-OnTrac1 (668-7221). To access the publications specified above, visit the Literature on Demand section of meritor.com.

Model Nomenclature

Front Non-Drive Axle Model Nomenclature

Hub, Tie Rod Arm, Brake Attachment Variation
A = Conventional, Non-Integral Tie Rod Arm, Non-Integral Brake
B = Conventional, Integral Tie Rod Arm, Non-Integral Brake
C = Conventional, Integral Tie Rod Arm, Integral Disc Brake
D = Unitized 65 mm, Integral Tie Rod Arm, Integral Drum Brake
E = Conventional, Integral Tie Rod Arm, Integral Drum Brake
F = Unitized 60 mm, Non-Integral Tie Rod Arm, Non-Integral Brake
G = Unitized 60 mm, Integral Tie Rod Arm, Integral Drum Brake
H = Unitized 60 mm, Integral Tie Rod Arm, Integral Disc Brake
J = Unitized 70 mm, Integral Tie Rod Arm, Non-Integral Brake

KPI	in.	(mm)	Drop in.	(mm)	KPI	in.	(mm)	Drop in.	(mm)
10 = 67.5	(1714.5)	2.8	(71.1)		51 = 72.0	(1828.8)	3.3	(83.8)	
11 = 68.0	(1727.2)	2.64	(67.1)		53 = 72.0	(1828.8)	3.7	(95.0)	
13 = 68.0	(1727.2)	3.7	(95.0)		55 = 75.8	(1924.1)	6.5	(165.1)	
16 = 68.0	(1727.2)	3.6	(91.4)		60 = 60.0	(1524.0)	2.5	(63.5)	
21 = 69.0	(1752.6)	3.3	(83.8)		61 = 60.0	(1524.0)	2.8	(71.1)	
22 = 69.0	(1752.6)	3.5	(88.9)		62 = 65.2	(1657.1)	3.7	(95.0)	
23 = 69.0	(1752.6)	3.5/2.0	(88.9/50.8)		63 = 65.3	(1657.4)	3.7	(95.0)	
24 = 69.0	(1752.6)	5.0	(127.0)		67 = 74.5	(1892.3)	8.0	(203.2)	
30 = 70.4	(1788.2)	10.2	(258.1)		70 = 74.5	(1892.3)	3.6	(91.4)	
32 = 71.0	(1803.4)	3.5	(88.9)		75 = 80.0	(2032.0)	2.5	(63.5)	
33 = 71.0	(1803.4)	3.7	(95.0)		85 = 67.5	(1714.5)	2.5	(63.5)	
35 = 71.0	(1803.4)	5.0	(127.0)		86 = 67.5	(1714.5)	3.6	(91.4)	
40 = 71.5	(1816.1)	4.7	(118.1)		92 = 68.5	(1739.9)	3.5	(88.9)	
42 = 71.5	(1816.1)	3.5	(88.9)		93 = 68.5	(1739.9)	4.76	(120.9)	
43 = 71.5	(1816.1)	3.7	(95.0)		94 = 68.83	(1748.3)	5.0	(127.0)	
44 = 71.5	(1816.1)	5.0	(127.0)						

Manufacturing Location
N = N.A.
S = S.A.
E = Europe
A = Australia/Asia
M = Mysore, India – J.V.

X = 00's of pounds (If omitted, default is **0**)
A = 100 F = 600
B = 200 G = 700
C = 300 H = 800
D = 400 J = 900
E = 500

M F S - xxx - x x x x - x x - xxx
M F S - 1 2 - 1 2 2 A - N L - 1

M = Meritor

F = Front

S = Non-Drive Steer Axle

GAWR
xx = Typical GAWR* in 000's of pounds (dependent on unit identifier)

Axle Spec. Number

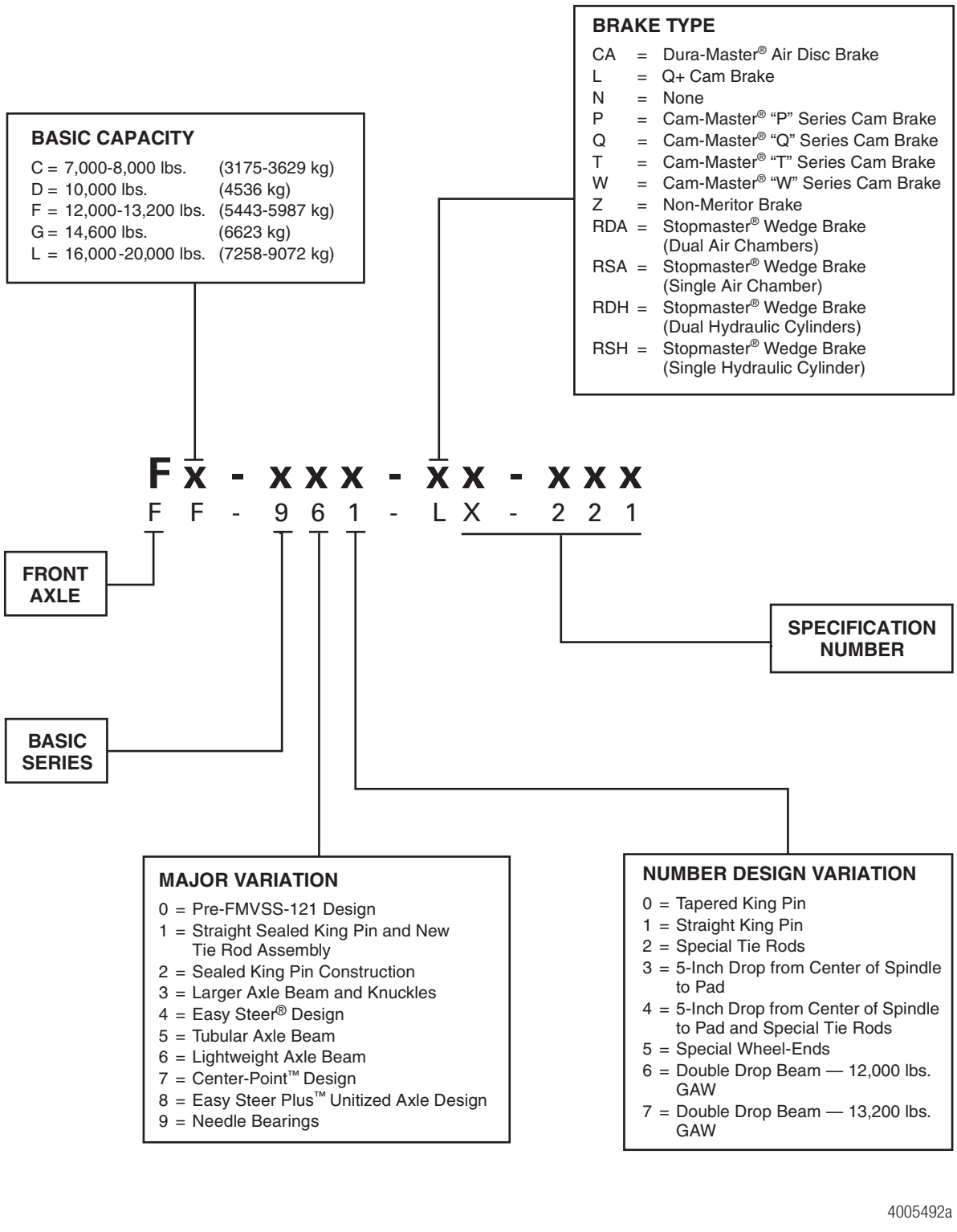
Beam, King Pin, Bushing Variation
1 = Forged I-Beam, Straight King Pins — Non-Metallic Bushings
2 = Forged I-Beam, Tapered King Pins — Needle Bearings
4 = Forged I-Beam, Straight King Pins — Bronze Bushings
5 = Forged I-Beam, Straight King Pins — Needle Bearings
6 = Formed Beam, Straight King Pins — Non-Metallic Bushings

Brake Type
B = "B" Frame Brake
C = Air Disc Brake
D = Wedge Brake (Dual Air Chambers)
E = Wedge Brake (Dual Hydraulic Cylinders)
F = Wedge Brake (Single Hydraulic Cylinder)
G = DuraPark® Hydraulic Drum
H = Quadraulic™ Disc
K = EX+™ Air Disc
L = Q+™ Cam Brake
N = None
P = "P" Series Cam Brake
Q = "Q" Series Cam Brake
R = Cast+ ™ Brake
S = Wedge Brake (Single Air Chamber)
T = "T" Series Cam Brake
V = Simplex Air Cam Brake
W = "W" Series Cam Brake
Z = Non-Meritor Brake

*For actual GAWR, consult application approval for the axle specification.

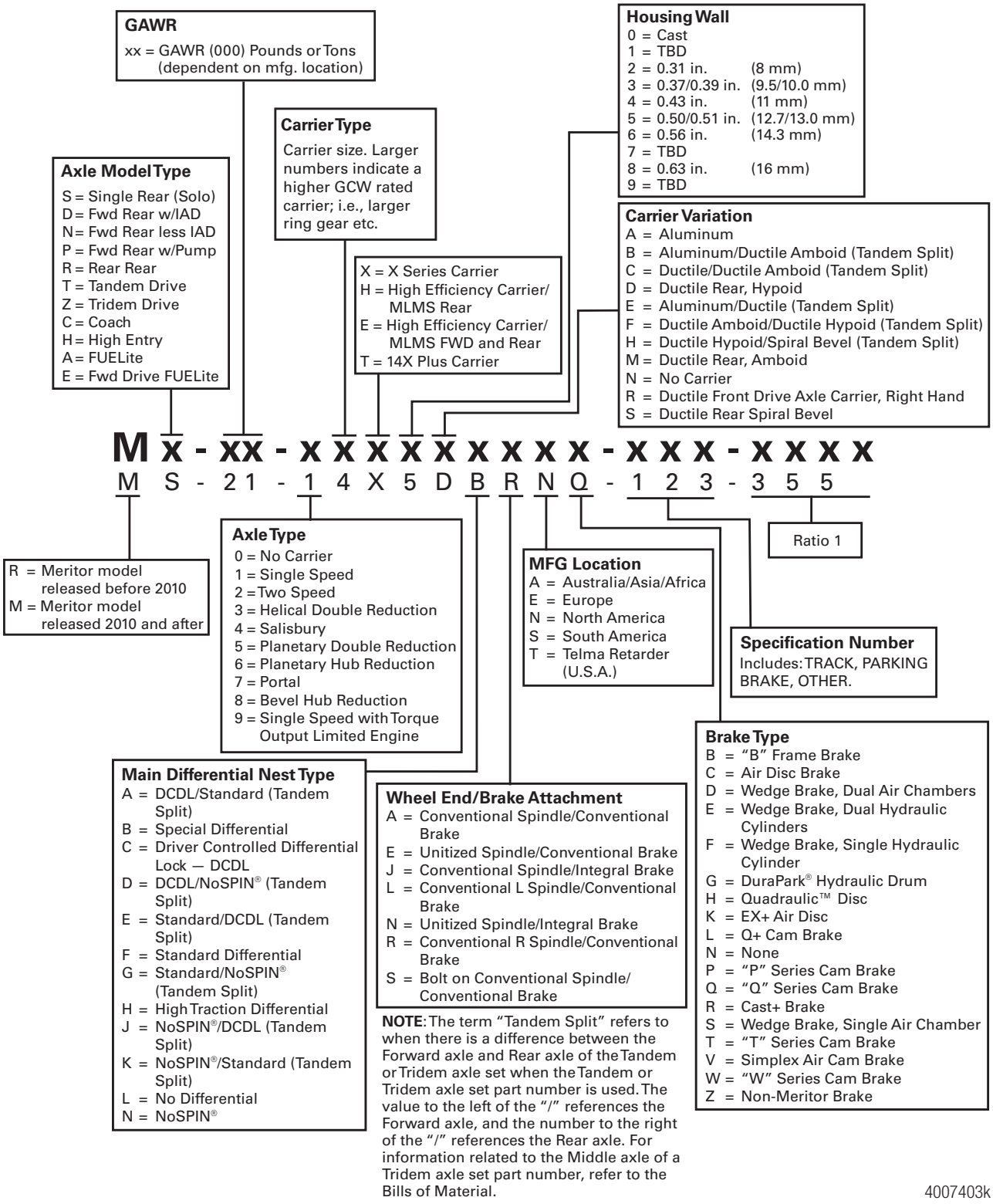
1003426k

Former Non-Drive Axle Model Nomenclature



4005492a

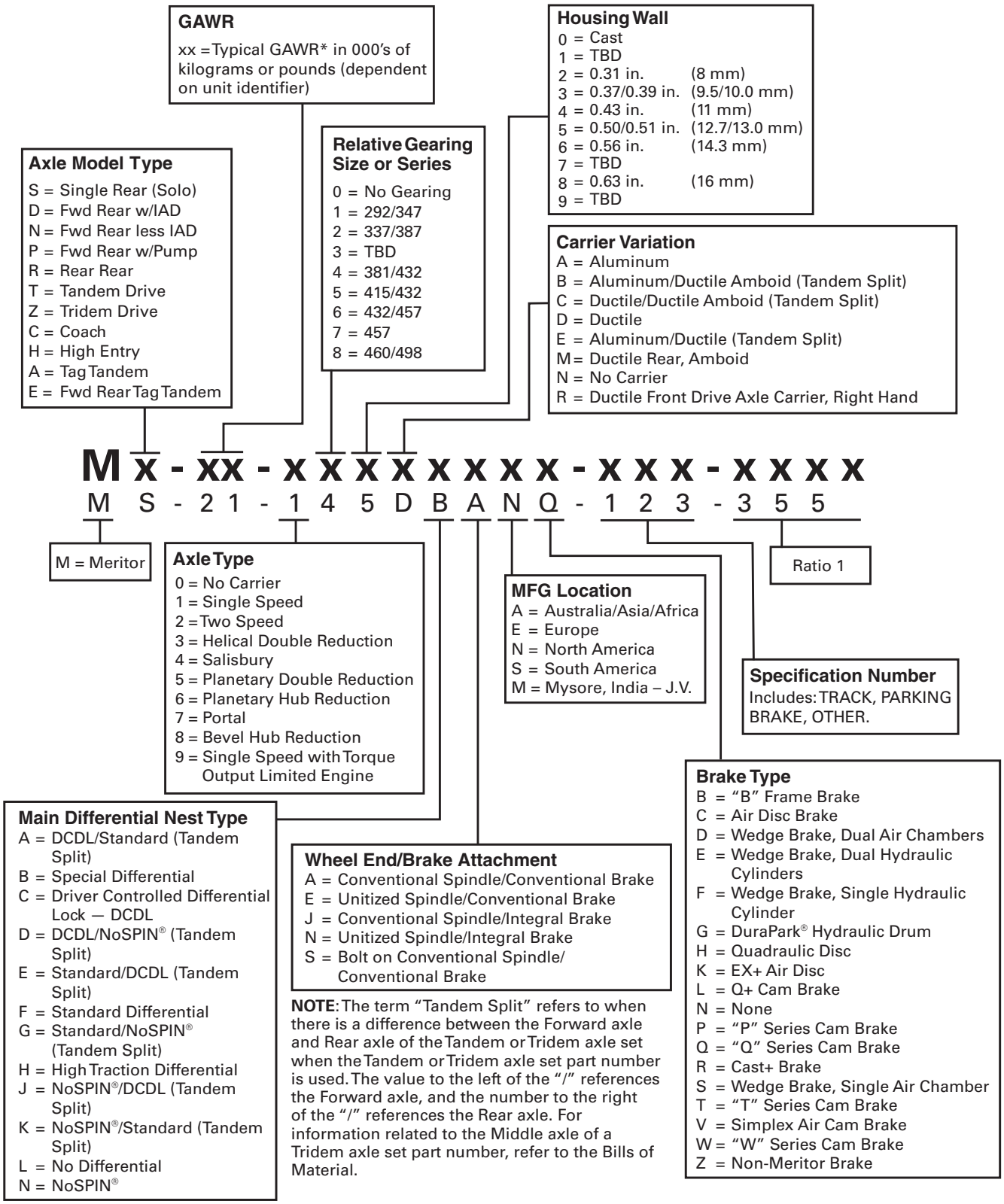
Current Drive Axle Model Nomenclature



NOTE: The term "Tandem Split" refers to when there is a difference between the Forward axle and Rear axle of the Tandem or Tridem axle set when the Tandem or Tridem axle set part number is used. The value to the left of the "/" references the Forward axle, and the number to the right of the "/" references the Rear axle. For information related to the Middle axle of a Tridem axle set part number, refer to the Bills of Material.

4007403k

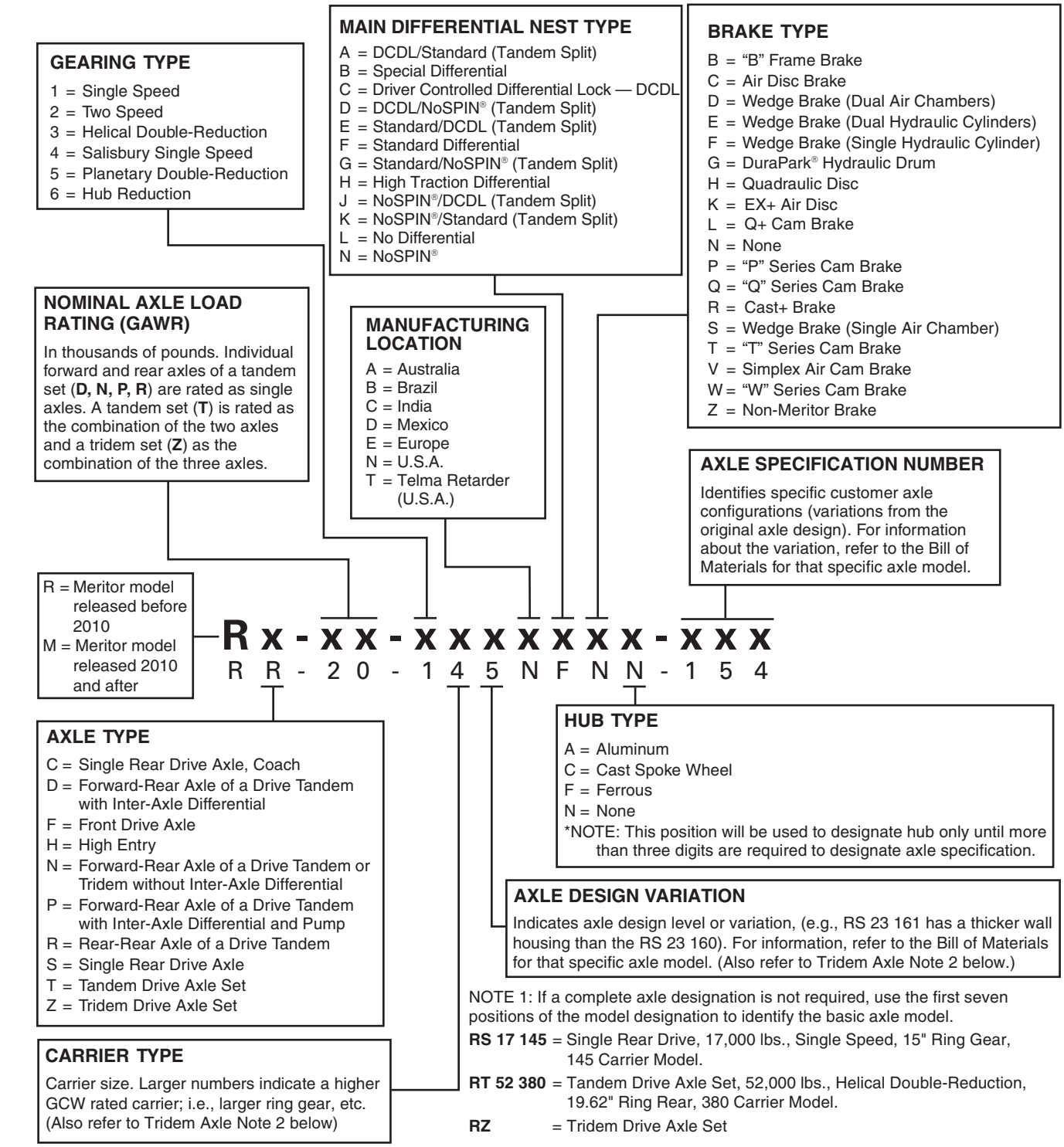
Former Drive Axle Model Nomenclature



NOTE: The term "Tandem Split" refers to when there is a difference between the Forward axle and Rear axle of the Tandem or Tridem axle set when the Tandem or Tridem axle set part number is used. The value to the left of the "/" references the Forward axle, and the number to the right of the "/" references the Rear axle. For information related to the Middle axle of a Tridem axle set part number, refer to the Bills of Material.

*For actual GAWR, consult application approval for the axle specification.

4002706i



NOTE 1: If a complete axle designation is not required, use the first seven positions of the model designation to identify the basic axle model.

RS 17 145 = Single Rear Drive, 17,000 lbs., Single Speed, 15" Ring Gear, 145 Carrier Model.

RT 52 380 = Tandem Drive Axle Set, 52,000 lbs., Helical Double-Reduction, 19.62" Ring Rear, 380 Carrier Model.

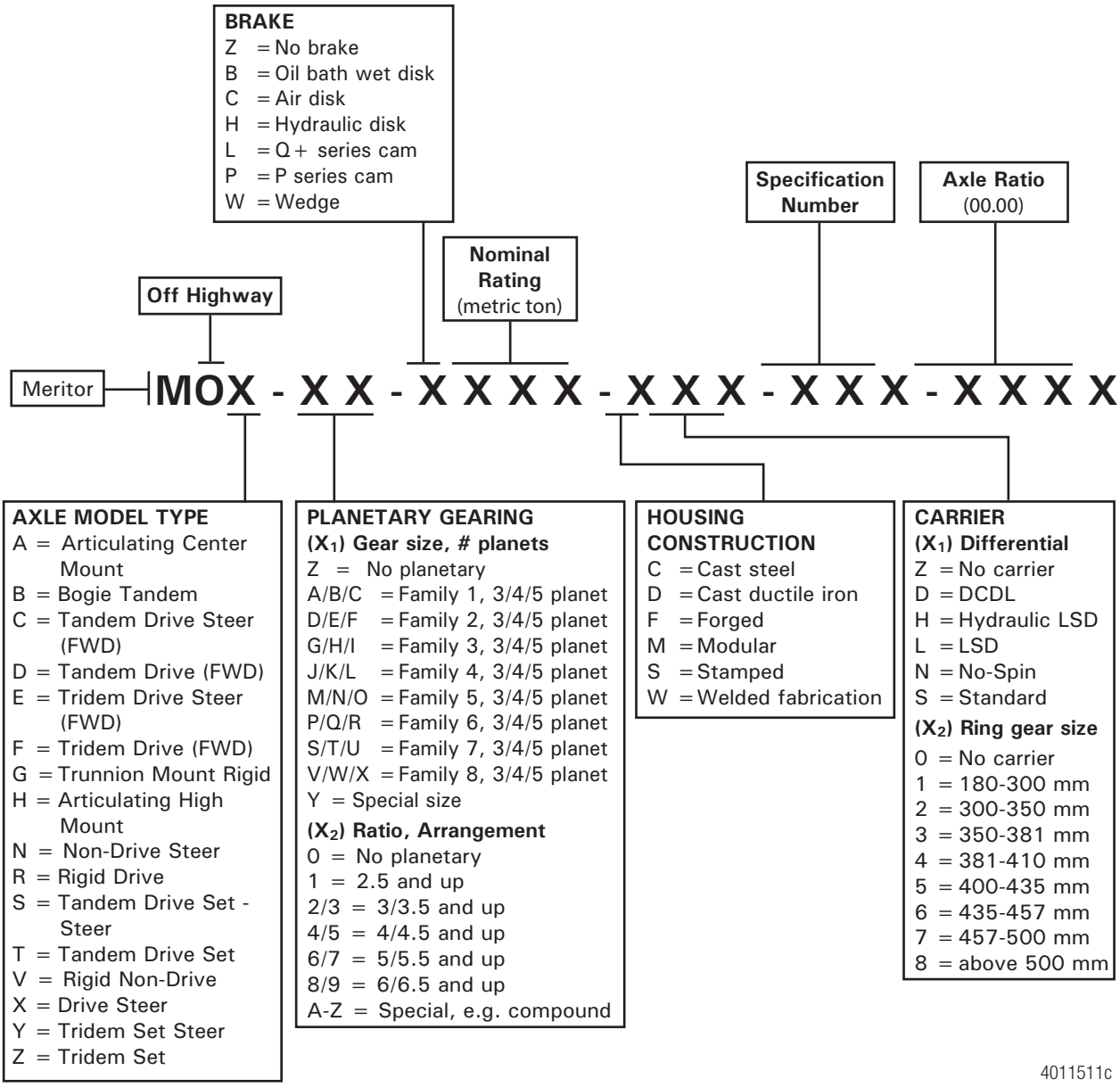
RZ = Tridem Drive Axle Set

NOTE 2, FOR TRIDEM AXLES ONLY:
For a Tridem Drive Axle Set (**RZ**), the number in the sixth position designates the carrier in the first axle. The number in the seventh position designates the carriers in the second and third axles.

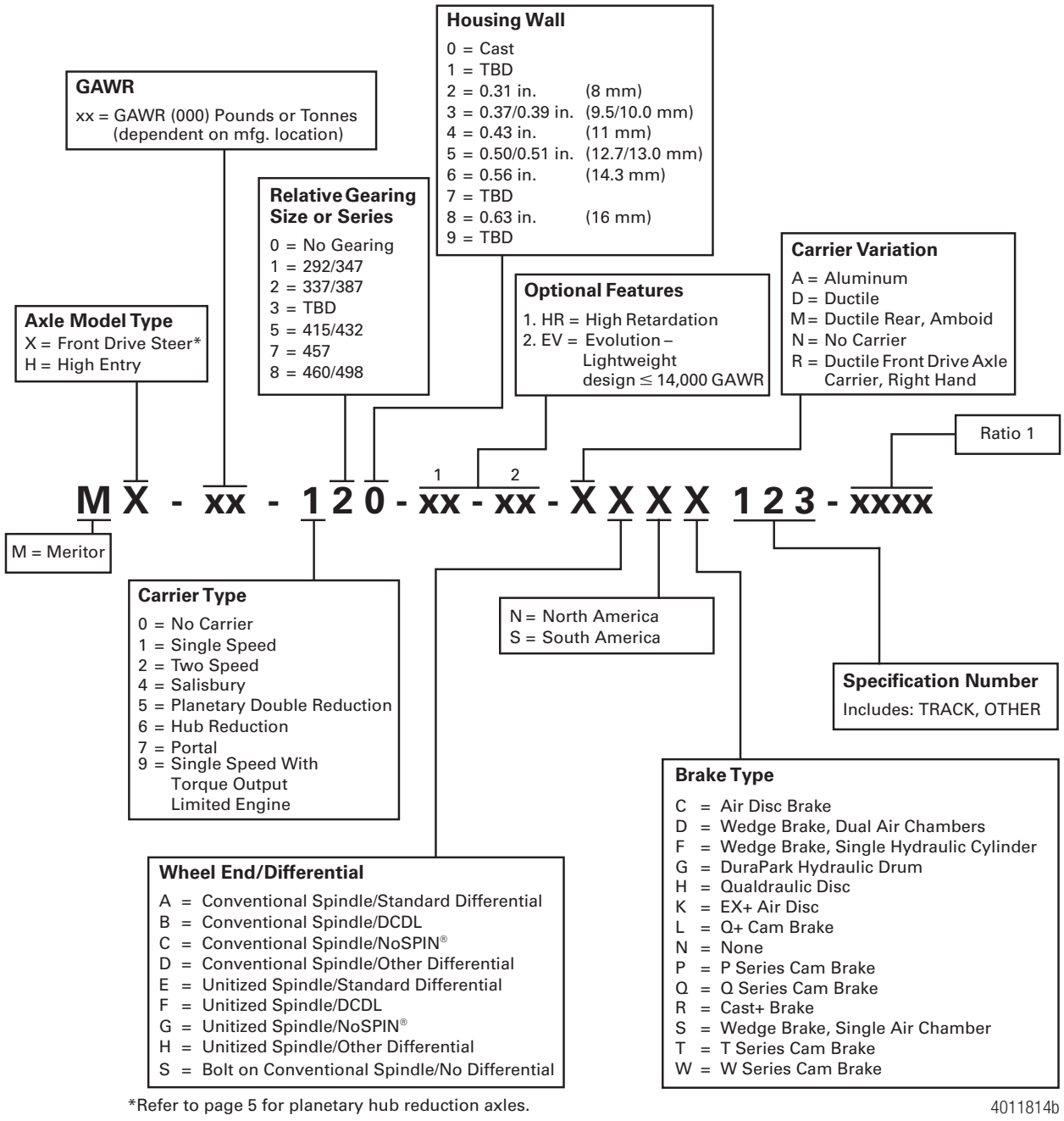
NOTE 3: The term "Tandem Split" refers to when there is a difference between the Forward axle and Rear axle of the Tandem or Tridem axle set when the Tandem or Tridem axle set part number is used. The value to the left of the "/" references the Forward axle, and the number to the right of the "/" references the Rear axle. For information related to the Middle axle of a Tridem axle set part number, refer to the Bills of Material.

4005493b

Planetary Drive Axle
Model Nomenclature



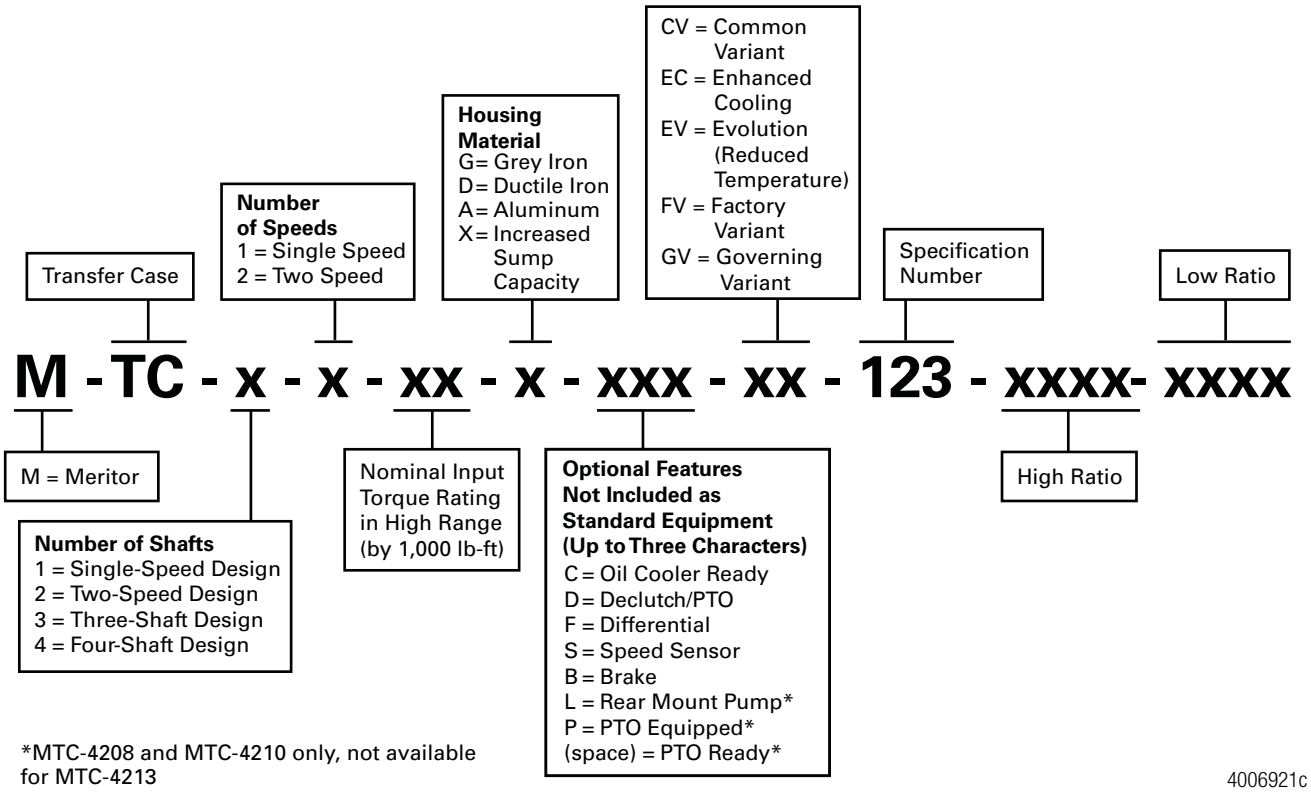
Front Drive Steer Axle Model Nomenclature



*Refer to page 5 for planetary hub reduction axles.

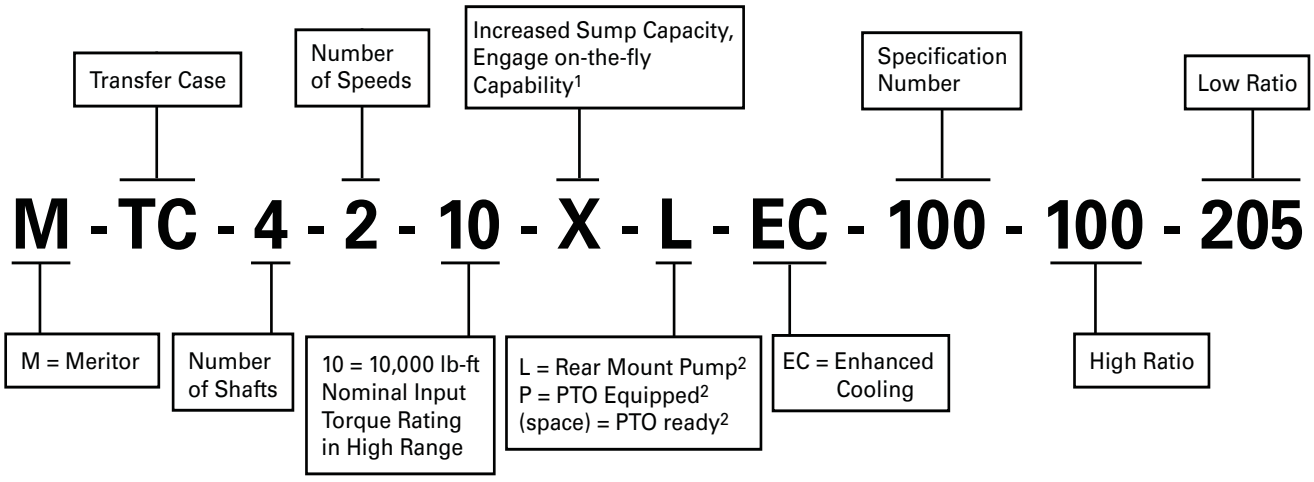
4011814b

Transfer Case
Model Nomenclature



*MTC-4208 and MTC-4210 only, not available for MTC-4213

4006921c



[1] With electronic controls only
[2] MTC-4208 and MTC-4210 only, not available for MTC-4213

4006922e

Rating Pounds (kg)	Axle Beam Drop Inches (mm)	(KPI) King Pin Intersection Inches (mm)	Wheel-End Series	Axle Model
8,000 (3632)	3.74 (95.0)	68.0 (1727.2)	B	**MFS-08-113B-N**
8,000 (3632)	3.74 (95.0)	72.0 (1828.8)	B	**MFS-08-153B-N**
8,000 (3632)	3.74 (95.0)	65.25 (1657.4)	B	**MFS-08-163B-N**
10,000 (4540)	3.74 (95.0)	71.5 (1816.1)	A	**MFS-10-143A-N**
10,000 (4540)	5.00 (127.0)	71.5 (1816.1)	A	**MFS-10-144A-N**
10,000 (4540)	5.00 (127.0)	69.0 (1752.6)	A	**MFS-10-124A-N**
12,000 (5448)	3.50 (88.9)	69.0 (1752.6)	B	**MFS-12-122B-N**
12,000 (5448)	3.50 (88.9)	69.0 (1752.6)	C	**MFS-12-122C-N**
12,000 (5448)	3.50 (88.9)	71.0 (1803.4)	B	**MFS-12-132B-N**
12,000 (5448)	3.50 (88.9)	71.0 (1803.4)	C	**MFS-12-132C-N**
12,500 (5808)	3.50 (88.9)	69.0 (1752.6)	B	**MFS-12E-122B-N**
12,500 (5808)	3.50 (88.9)	69.0 (1752.6)	C	**MFS-12E-122C-N**
12,500 (5808)	3.50 (88.9)	71.0 (1803.4)	B	**MFS-12E-132B-N**
12,500 (5808)	3.50 (88.9)	71.0 (1803.4)	C	**MFS-12E-132C-N**
13,000 (5902)	3.50 (88.9)	69.0 (1752.6)	B	**MFS-13-122B-N**
13,000 (5902)	3.50 (88.9)	69.0 (1752.6)	C	**MFS-13-122C-N**
13,000 (5902)	3.50 (88.9)	71.0 (1803.4)	B	**MFS-13-132B-N**
13,000 (5902)	3.50 (88.9)	71.0 (1803.4)	C	**MFS-13-132C-N**
13,200 (5993)	3.50 (88.9)	69.0 (1752.6)	B	**MFS-13B-122B-N**
13,200 (5993)	3.50 (88.9)	69.0 (1752.6)	C	**MFS-13B-122C-N**
13,200 (5993)	3.50 (88.9)	71.5 (1816.1)	B	**MFS-13B-132B-N**
13,200 (5993)	3.50 (88.9)	71.5 (1816.1)	C	**MFS-13B-132C-N**
14,000 (6674)	3.50 (88.9)	69.0 (1752.6)	B	**MFS-14-122B-N**
14,000 (6674)	3.50 (88.9)	69.0 (1752.6)	C	**MFS-14-124C-N**
14,000 (6674)	3.50 (88.9)	71.0 (1803.4)	B	**MFS-14-142B-N**
14,000 (6674)	3.50 (88.9)	71.0 (1803.4)	C	**MFS-14-142C-N**
14,700 (6674)	3.50 (88.9)	69.0 (1752.6)	A	**MFS-14-122A-N**
14,700 (6674)	5.00 (127.0)	69.0 (1752.6)	A	**MFS-14-124A-N**
14,700 (6674)	3.74 (95.0)	71.5 (1816.1)	A	**MFS-14-143A-N**
14,700 (6674)	5.00 (127.0)	71.5 (1816.1)	A	**MFS-14-144A-N**
14,600 (6674)	3.50 (88.9)	69.0 (1752.6)	B	**MFS-14-122B-N**
14,600 (6674)	3.50 (88.9)	69.0 (1752.6)	C	**MFS-14-122C-N**
14,600 (6674)	3.50 (88.9)	71.0 (1803.4)	B	**MFS-14-132B-N**
14,600 (6674)	3.50 (88.9)	71.0 (1803.4)	C	**MFS-14-132C-N**
14,600 (6674)	3.50 (88.9)	71.5 (1816.1)	B	**MFS-14-142B-N**
14,600 (6674)	3.50 (88.9)	71.5 (1816.1)	C	**MFS-14-142C-N**
14,700 (6674)	3.50 (88.9)	69.0 (1752.6)	B	**MFS-14G-122B-N**
14,700 (6674)	3.50 (88.9)	69.0 (1752.6)	C	**MFS-14G-122C-N**
14,700 (6674)	3.50 (88.9)	71.0 (1803.4)	B	**MFS-14G-132B-N**
14,700 (6674)	3.50 (88.9)	71.0 (1803.4)	C	**MFS-14G-132C-N**
14,700 (6674)	3.50 (88.9)	71.5 (1816.1)	B	**MFS-14G-142B-N**
14,700 (6674)	3.50 (88.9)	71.5 (1816.1)	C	**MFS-14G-142C-N**
16,000 (7264)	3.74 (95.0)	71.0 (1803.4)	A	**MFS-16-133A-N**
16,000 (7264)	5.00 (127.0)	70.7 (1816.1)	A	**MFS-16-135A-N**
16,000 (7264)	3.50 (88.9)	68.5 (1739.9)	A	**MFS-16-192A-N**
16,000 (7264)	5.00 (127.0)	68.83 (1748.3)	A	**MFS-16-194A-N**
16,000 (7264)	4.76 (120.9)	68.2 (1732.2)	A	**MFS-16-193A-N**
18,000 (8172)	3.74 (95.0)	71.0 (1803.4)	A	**MFS-18-133A-N**
18,000 (8172)	5.00 (127.0)	70.7 (1795.4)	A	**MFS-18-135A-N**
18,000 (8172)	3.50 (88.9)	68.5 (1739.9)	A	**MFS-18-192A-N**
18,000 (8172)	4.76 (120.9)	68.2 (1732.2)	A	**MFS-18-193A-N**
18,000 (8172)	5.00 (127.0)	68.83 (1748.3)	A	**MFS-18-194A-N**
20,000 (9080)	3.74 (95.0)	71.0 (1803.4)	A	**MFS-20-133A-N**
20,000 (9080)	5.00 (127.0)	70.7 (1795.4)	A	**MFS-20-135A-N**
20,000 (9080)	3.50 (88.9)	68.5 (1739.9)	A	**MFS-20-192A-N**
20,000 (9080)	4.76 (120.9)	68.2 (1732.2)	A	**MFS-20-193A-N**
20,000 (9080)	5.00 (127.0)	68.83 (1748.3)	A	**MFS-20-194A-N**
22,000 (9979)	3.74 (95.0)	71.0 (1803.4)	A	**MFS-22-133A-N**
22,000 (9979)	5.00 (127.0)	70.7 (1795.4)	A	**MFS-22-135A-N**
22,800 (10351)	5.00 (127.0)	70.7 (1795.4)	A	**MFS-22H-135A-N**
22,800 (10351)	4.76 (120.9)	68.2 (1732.2)	A	**MFS-22H-192A-N**

	Wheel-End Series	
	Hub	**Knuckle**
A	Conventional	Standard
B	Conventional	Integral Tie Rod
C	Conventional	Integral Tie Rod and Torque Plate

Refer to page 21 for footnotes.

Rating Pounds (kg)	Axle Model	Axle Ratios	Ring Gear Size Inches (mm)	Bowl Offset Inches (mm) ⑧	Maximum Turn Angle	Joint Type	(KPI) King Pin Intersection Distance Inches (mm)	Options	Wheel End Series
10,000 (4540)	MX-10-120 MX-10-120-XX-EV ⑧	Standard 120 Carriers 4.30, 4.56, 4.88, 5.13, 5.29, 5.57, 5.86, 6.14 HR 120 Carriers 4.88, 5.57, 6.14, 6.43	13.25 (336.6)	10.0 (254) passenger side standard 10.75 (273) passenger side wide track	42°	Double Cardan	69.0 (1752) Standard Track 70.5 (1790) Wide Track		U
12,000 (5448)	MX-12-120 MX-12-120-XX-EV ⑧								
14,000 (6350)	MX-14-120 MX-14-120-XX-EV ⑧								
16,000 (7258)	MX-16-120 ⑧								
18,000 (8165)	MX-18-120								
17,000 (7945)	MX-17-140	2.79, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.90, 4.11, 4.33, 4.56, 4.63, 4.88, 5.13, 5.29, 5.57, 5.86, 6.14, 6.43, 6.83, 7.17	15.31 (388.9)	0	35°	Single Cardan	66.5 (1689) Standard Track	CTI, diff lock	
19,000 (8626)	MX-19-140								
21,000 (9534)	MX-21-140								
	MX-21-160	2.50, 2.67, 2.80, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 5.86, 6.14, 6.43, 6.83, 7.17	18.00 (457.2)	0	35°		66.5 (1689) Standard Track 68.5 (1740) Wide Track	CTI, diff lock	
23,000 (10 442)	MX-23-160	4.10, 4.56, 4.89, 5.13, 5.29, 5.38, 5.63, 6.14, 6.83, 7.17							

Refer to page 21 for footnotes.

Single-Reduction

Rating Pounds (kg)	Axle Model	GCW Highway Pounds (kg)		Standard Ratios (High/Low Range)	Ring Gear Size (Pitch Diameter) Inches (mm)	Axle Shaft Spline Size Inches (mm)	Body Diameter Inches (mm)	Housing Box Size Inches (mm)	Wall Thickness at Spring Seat Inches (mm)	Wheel End Series	DCDL Y/N
		Max. 3.5% Grade (Turnpike)	Max. 8% Grade (Paved)								
17,000 (7711)	**MS-17-13X**	Contact Meritor	41,000 (18 600)	3.90, 4.11, 4.33, 4.63, 4.88, 5.13, 5.29, 5.57, 5.83, 6.17, 6.50	13.97 (355.0)	2.00 (50.8) 39 Teeth	1.81 (45.97)	5.25x 4.62 (134 x 117)	0.37/0.43 (9.5/11.0) Standard Track	L	N/A
						2.10 (53.3) 41 Teeth	1.88 (47.8)			R	
17,500 (7945)	**MS-17-14X**	Contact Meritor	55,000 (24 948)	2.64, 3.08, 3.25, 3.36, 3.42, 3.55, 3.70, 3.90, 4.11, 4.33, 4.63, 4.88, 5.13, 5.29, 5.57, 5.86, 6.14, 6.43, 6.83, 7.17	15.31 (388.9)	2.00 (50.8) 39 Teeth	1.81 (45.97)			L	
						2.10 (53.3) 41 Teeth	1.88 (47.8)			R	Y
19,000 (8626)	**MS-19-13X**	Contact Meritor	41,000 (18 600)	3.90, 4.11, 4.33, 4.63, 4.88, 5.13, 5.29, 5.57, 5.83, 6.17, 6.50	13.97 (355.0)	2.00 (50.8) 39 Teeth	1.81 (45.97)			L	N/A
						2.10 (53.3) 41 Teeth	1.88 (47.8)			R	
	MS-19-14X	Contact Meritor	55,000 (24 948)	2.64, 3.08, 3.25, 3.36, 3.42, 3.55, 3.70, 3.90, 4.11, 4.33, 4.63, 4.88, 5.13, 5.29, 5.57, 5.86, 6.14, 6.43, 6.83, 7.17	15.31 (388.9)	2.00 (50.8) 39 Teeth	1.81 (45.97)			R	Y
						2.10 (53.3) 41 Teeth	1.88 (47.8)				
21,000 (9534)	**MS-21-14X**	Contact Meritor	55,000 (24 948)	2.64, 2.79, 2.85, 3.08, 3.25, 3.36, 3.42, 3.55, 3.70, 3.90, 4.11, 4.33, 4.63, 4.88, 5.13, 5.29, 5.57, 5.86, 6.14, 6.43, 6.83, 7.17	15.31 (388.9)	2.10 (53.3) 41 Teeth	1.88 (47.8) 2.00 (50.8) ③		0.43 (11.0) Standard Track, 0.43 (11.0) DualTrac, 0.56 (14.3) Wide Track		
	RS-21-160 ⑤	Contact Meritor	90,000 (40 823)	2.50, 2.67, 2.80, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17	18.00 (457.2)	2.35 (59.7) 46 Teeth	2.25 (57.2)		0.43 (11.0) Standard Track, 0.50 (12.7) DualTrac, 0.63 (16.0) Wide Track		

Refer to page 21 for footnotes.
For conditions that apply to specific applications, refer to publication TP-9441, Axle Application Guidelines.

Single-Reduction

Rating Pounds (kg)	Axle Model	GCW Highway Pounds (kg)		Standard Ratios (High/Low Range)	Ring Gear Size (Pitch Diameter) Inches (mm)	Axle Shaft Spline Size Inches (mm)	Body Diameter Inches (mm)	Housing Box Size Inches (mm)	Wall Thickness at Spring Seat Inches (mm)	Wheel End Series	DCDL Y/N
		Max. 3.5% Grade (Turnpike)	Max. 8% Grade (Paved)								
23,000 (10 442)	**RS-23-160** ⑤	Contact Meritor	90,000 (40 823)	2.50, 2.67, 2.80, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17	18.00 (457.2)	2.35 (59.7) 46 Teeth	2.25 (57.2)	5.25 x 4.62 (134 x 117)	0.43 (11.0) Standard Track, 0.63 (16.0) DualTrac	R	Y
	RS-23-161 ⑤	Contact Meritor	90,000 (40 910)	2.50, 2.67, 2.80, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17					0.50 (12.7) Standard Track		
	RS-23-186 ⑤	140,000 (63 503)	125,000 (56 750)	3.42, 3.73, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 5.86, 6.14, 6.83, 7.17, 7.83	19.62 (498.3)						
	MS-23-17XHE ⑦			2.06, 2.17, 2.31, 2.47, 2.64, 2.85, 3.08, 3.36	18.00 (457.2)				0.50 (12.7) Standard Track, DualTrac		
25,000 (11 350)	**RS-25-160** ⑤	Contact Meritor	90,000 (40 910)	2.50, 2.67, 2.80, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17					0.63 (16.0)		
26,000 (11 804)	**RS-26-185** ⑤	140,000 (63 503)	125,000 (56 750)	3.42, 3.58, 3.73, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 5.86, 6.14, 6.83, 7.17, 7.83	19.62 (498.3)			5.50 x 5.50 (140 x 140)	0.56 (14.3) Standard Track, 0.63 (16.0) Wide Track		
30,000 (13 620)	**RS-30-185** ⑤								0.56 (14.3) Standard Track, 0.63 (16.0) Wide Track	U	

Refer to page 21 for footnotes.
For conditions that apply to specific applications, refer to publication TP-9441, Axle Application Guidelines.

Planetary Two-Speed

Rating Pounds (kg)	Axle Model	GCW Highway Pounds (kg)		Standard Ratios (High/Low Range)	Ring Gear Size (Pitch Diameter) Inches (mm)	Axle Shaft Spline Size Inches (mm)	Body Diameter Inches (mm)	Housing Box Size Inches (mm)	Wall Thickness at Spring Seat Inches (mm)	Wheel-End Series	DCDL Y/N
		Max. 3.5% Grade (Turnpike)	Max. 8% Grade (Paved)								
21,000 (9534)	**RS-21-230**	60,000 (27 240)		4.56/6.36, 4.88/6.80, 5.38/7.50, 5.86/8.17, 7.17/10.0	16.00 (406.4)	2.00 (50.8) 39 Teeth	1.88 (47.8)	5.25 x 4.62 (134 x 117)	0.43 (11.0)	R	N
23,000 (10 442)	**RS-23-240**	70,000 (31 780)		4.10/5.59, 4.30/5.86, 4.56/6.21, 4.88/6.65, 5.57/7.60, 6.14/8.38, 7.17/9.77	17.00 (431.8)	2.10 (53.3) 41 Teeth	2.00 (50.8)		0.50 (12.7)		

For conditions that apply to specific applications, refer to publication TP-9441, Axle Application Guidelines.

Helical-Hypoid Double-Reduction

Rating Pounds (kg)	Axle Model	GCW Highway Pounds (kg)		Standard Ratios (High/Low Range)	Ring Gear Size (Pitch Diameter) Inches (mm)	Axle Shaft Spline Size Inches (mm)	Body Diameter Inches (mm)	Housing Box Size Inches (mm)	Wall Thickness at Spring Seat Inches (mm)	Wheel-End Series	DCDL Y/N
		Max. 3.5% Grade (Turnpike)	Max. 8% Grade (Paved)								
23,000 (10 442)	**RS-23-380**	140,000 (63 503)	125,000 (56 750)	5.52, 6.07, 6.37, 6.75, 7.24, 7.83, 9.14, 10.12, 10.62	19.62 (498.3)	2.35 (59.7) 46 Teeth	2.25 (57.2)	5.25 x 4.62 (134 x 117)	0.50 (12.7)	R	N
26,000 (11 804)	**RS-26-380**							5.50 x 5.50 (140 x 140)	0.56 (14.3)		
30,000 (13 620)	**RS-30-380**								0.56 (14.3) 0.63 (16.0) Wide Track	U	

Refer to page 21 for footnotes.
For conditions that apply to specific applications, refer to publication TP-9441, Axle Application Guidelines.

Tag Tandems (6x2 Configurations)

Rating Pounds (kg)	Axle Model	GCW Linehaul Pounds (kg)	Standard Ratios	Ring Gear Size (Pitch Diameter) Inches (mm)	Axle Shaft Spline Size Inches (mm)	Body Diameter Inches (mm)	Housing Box Size Inches (mm)	Wall Thickness at Spring Seat Inches (mm)	Wheel-End Series	DCDL Y/N
40,000 (18 160)	**MA-40-165**	90,000 (40 910)	2.50, 2.67, 2.80, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10	18.00 (457.2)	2.35 (59.7) 46 Teeth	2.25 (57.2)	5.25 x 4.62 (134 x 117)	0.50 (12.7) DualTrac	R	Y
	MA-40-17XHE ⑦	140,000 (63 503)	2.06, 2.17, 2.31, 2.47, 2.64, 2.85, 3.08, 3.36							

Refer to page 21 for footnotes.
For conditions that apply to specific applications, refer to publication TP-9441, Axle Application Guidelines.

Single-Reduction

Rating Pounds (kg)	Axle Model	GCW Highway Pounds (kg)		Standard Ratios (High/Low Range)	Ring Gear Size (Pitch Diameter) Inches (mm)	Axle Shaft Spline Size Inches (mm)	Body Diameter Inches (mm)	Housing Box Size Inches (mm)	Wall Thickness at Spring Seat Inches (mm)	Wheel-End Series	DCDL Y/N	Pump Y/N
		Max. 3.5% Grade (Turnpike)	Max. 8% Grade (Paved)									
40,000 (18 160	**MT-40-14X Amboid**	145,000 (65 830)	125,000 (56 750)	2.28, 2.47, 2.64, 2.85, 3.08, 3.25, 3.36, 3.42, 3.55, 3.70, 3.90, 4.11	15.31 (388.9)	2.10 (53.3) 41 Teeth	1.88 (47.8) 2.00 (50.8) ③	5.25 x 4.62 (134 x 117)	0.37 (9.5) 0.43 (11.0) Standard Track, DualTrac 0.56 (14.3) Wide Track	R	Y ⑨	Y
	MT-40-14X Hypoid			2.64, 3.08, 3.25, 3.36, 3.42, 3.55, 3.70, 3.90, 4.11, 4.33, 4.63, 4.88, 5.29, 5.86, 6.14, 6.43, 6.83, 7.17							Y	
	MT-40-14XHE ⑦	105,000 (47 627)	90,000 (40 823)	2.15, 2.28, 2.47, 2.64, 2.79, 2.85, 2.93, 3.08, 3.25, 3.36, 3.42, 3.55, 3.70, 3.90							Y ⑨	N
	MT-40-14X Plus Hypoid	145,000 (65 830)	130,000 (58 967)	2.64, 3.08, 3.25, 3.36, 3.42, 3.55, 3.70, 3.90, 4.11, 4.33, 4.63, 4.88							Y	Y
	MT-40-14X Plus Amboid	145,000 (65 830)	130,000 (58 967)	2.64, 2.85, 3.08, 3.25, 3.36, 3.42, 3.55, 3.70, 3.90, 4.11							Y ⑨	
	RT-40-160	185,000 (83 990)	160,000 (72 640)	3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17	18.00 (457.2)	2.35 (59.7) 46 Teeth			0.43 (11.0) Standard Track, 0.63 (16.0) Wide Track Only, Available as RT-46-164 Series 0.50 (12.7) DualTrac		Y	Y

Refer to page 21 for footnotes.
For conditions that apply to specific applications, refer to publication TP-9441, Axle Application Guidelines.

Single-Reduction

Rating Pounds (kg)	Axle Model	GCW Highway Pounds (kg)		Standard Ratios (High/Low Range)	Ring Gear Size (Pitch Diameter) Inches (mm)	Axle Shaft Spline Size Inches (mm)	Body Diameter Inches (mm)	Housing Box Size Inches (mm)	Wall Thickness at Spring Seat Inches (mm)	Wheel-End Series	DCDL Y/N	Pump Y/N
		Max. 3.5% Grade (Turnpike)	Max. 8% Grade (Paved)									
44,000 (19 976)	**MT-44-14X**	Not Rated	Not Rated	2.64, 3.08, 3.55, 3.70, 3.90, 4.11, 4.33, 4.63, 4.88, 5.29, 5.86, 6.14	15.31 (388.9)	2.10 (53.3) 41 Teeth	2.00 (50.8)	5.25 x 4.62 (134 x 117)	0.50 (12.7) Standard Track, 0.56 (14.3) Wide Track	R	Y	Y
46,000 (20 884)	**RT-46-160**	185,000 (83 990)	160,000 (72 640)	3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17	18.00 (457.2)	2.35 (59.7) 46 Teeth	2.25 (57.2)		0.50 (12.7) Standard Track, 0.50 (12.7) DualTrac Only, 0.63 (16.0) Wide Track Only			
46,000 (20 884)	**RT-46-164EH** **RT-46-164**	185,000 (83 990)	160,000 (72 640)	3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17	18.00 (457.2)	2.35 (59.7) 46 Teeth	2.25 (57.2)		0.63 (16.0) Standard and Wide Track			
50,000 (22 700)	**RT-50-160** **RT-52-160**	185,000 (83 990)	160,000 (72 640)	3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17	18.00 (457.2)							
52,000 (23 608)	**RT-52-185**	Contact Meritor	Contact Meritor	3.73, 4.30, 4.56, 4.89, 5.38, 6.14, 6.83, 7.17	19.62 (498.3)			5.50 x 5.50 (140 x 140)	0.56 (14.3) Standard Track, 0.63 (16.0) Wide Track	R	Y Rear Only	
58,000 (26 332)	**RT-58-185**								0.56 (14.3) 0.63 (16.0) Wide Track	U		

For conditions that apply to specific applications, refer to publication TP-9441, Axle Application Guidelines.

Helical-Hypoid Double-Reduction

Rating Pounds (kg)	Axle Model	GCW Highway Pounds (kg)		Standard Ratios (High/Low Range)	Ring Gear Size (Pitch Diameter) Inches (mm)	Axle Shaft Spline Size Inches (mm)	Body Diameter Inches (mm)	Housing Box Size Inches (mm)	Wall Thickness at Spring Seat Inches (mm)	Wheel-End Series
		Max. 3.5% Grade (Turnpike)	Max. 8% Grade (Paved)							
52,000 (23 608)	**RT-52-380**	Contact Meritor	Contact Meritor	5.52, 6.07, 6.37, 6.75, 7.24, 7.83, 9.14, 10.12, 10.62	19.62 (498.3)	2.35 (59.7) 46 Teeth	2.25 (57.2)	5.50 x 5.50 (140 x 140)	0.56 (14.3) Standard Track, 0.63 (16.0) Wide Track	R
58,000 (26 332)	**RT-58-380**								0.56 (14.3) 0.63 (16.0) Wide Track	U

For conditions that apply to specific applications, refer to publication TP-9441, Axle Application Guidelines.

Single-Reduction

Rating Pounds (kg)	Axle Model	GCW Highway Pounds (kg)		Standard Ratios** (High/Low Range)	Ring Gear Size (Pitch Diameter) Inches (mm)	Axle Shaft Spline Size Inches (mm)	Body Diameter Inches (mm)	Housing Box Size Inches (mm)	Wall Thickness at Spring Seat Inches (mm)	Wheel-End Series	DCDL Y/N No Spin	Pump Y/N
		Max. 3.5% Grade (Turnpike)	Max. 8% Grade (Paved)									
69,000 (31 326)	**RZ-166**	Consult Meritor Axle Representative		3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14	18.0 (457.2)	2.35 (59.7) 46 teeth	2.25 (57.2)	5.25 x 4.62 (134 x 117)	0.62 (16.0) Standard Track or Wide Track	R	Y	Y
78,000 (35 380)	**RZ-188**			3.73, 4.30, 4.56, 4.89, 5.38, 6.14, 6.83, 7.17	19.6 (498.3)			5.50 x 5.50 (140 x 140)	0.56 (14.3) Standard Track, 0.62 (16.0) Wide Track		Y Rear Only	

For conditions that apply to specific applications, refer to publication TP-9441, Axle Application Guidelines.

P600

	Rating Pounds (kg)	Axle Model	GCW Pounds (kg)	Standard Ratios	Ring Gear Size (Pitch Diameter) Inches (mm)	Axle Shaft Spline Size Inches (mm)	Axle Shaft Body Diameter Inches (mm)	Housing Wall Thickness at Spring Seat Inches (mm)	Wheel-End Series
Heavy Haul Tandem	84,000 (38 000)	MOTH2P038	771,617 (350 000)	3.46, 3.60, 3.77, 4.12, 4.57, 4.67, 5.40, 5.47, 6.19, 7.20	11.03 (280)	1.94 (49.4)	1.77 (45)	0.625 (16)	H2/I2
Heavy Haul Tridem	125,000 (57 000)	MOZH2P057	1,036,172 (470 000)						
Heavy Haul Tandem	84,000 (38 000)	MOTH2P038	771,617 (350 000)	8.55, 9.13, 10.66, 11.25, 11.63, 12.28, 12.80, 13.49, 14.22, 14.98, 16.02, 16.88, 18.30, 20.28, 21.24, 22.25, 23.63, 24.81	15.31 (388.9)	2.09 (53.3)			
Front Drive Steer	32,000 (15 000)	MOXH2P015	N/A				2 (50.8)		H2
Front Non-Drive Steer	35,000 (16 000)	MONH2P016	N/A	N/A	N/A	N/A	N/A	1 (25.4)	
Rear Drive	32,000 (15 000)	MORH2P015	N/A	8.55, 9.13, 10.66, 11.25, 11.63, 12.28, 12.80, 13.49, 14.22, 14.98, 16.02, 16.88, 18.30, 20.28, 21.24, 22.25, 23.63, 24.81	15.31 (388.9)	2.09 (53.3)	2 (50.8)	0.625 (16)	
Port/ Terminal (Single)	70,500 (32 000)	MORH2P032	264,554 (120 000)						H2/I2
	77,000 (35 000)	MORH2P032	264,554 (120 000)						

Single-Speed

Description \ Transfer Case Model		T-2119 3-Shaft	T-2111 3-Shaft
Oil Capacity Vertical Position Pints (liters) ④		7.00 (3.31) Standard	3.0 (1.42)
Typical Weight Pounds (kg) ②		620 (281.5) Basic Unit	305 (138.5) Basic Unit
Vertical Output Drop Inches (mm)		17.25 (438.15)	16.125 (409.6)
Lateral Output Offset Inches (mm)		1.31 (33.27)	0 (0.0)
Maximum Torque Rating by Ratio ①	Ratio(s) Optional	1.00:1 1.21:1 Optional 0.83:1 Optional	1.00:1
	lb-ft (N•m)	20,300 (27 116) 16,500 (22 411) 20,000 (27 116)	11,000 (14 914) Standard Configuration 15,600 (21 150) Thru-Shaft Version
Continuous Speed		2600 rpm	2450 rpm
Maximum Speed Rating		3200 rpm	2900 rpm
Park Brake		Not Available	Optional
Oil Pump		Standard	Optional
Airshift Front Declutch		Optional	
Front Declutch Indicator Switch(es)		One or Two Optional	
PTO			Optional
Integral Mounting Bosses		Standard	
Integral Lifting Loops		No	Standard
Applicable Maintenance Manual		Maintenance Manual MM-0112S	Maintenance Manual 3B

Refer to page 21 for footnotes.

Two-Speed

Description \ Transfer Case Model	MTC-4208/4210 4-Shaft	MTC-4213 4-Shaft
Oil Capacity Vertical Position Pints (liters) ④	MTC4210X/XP - 14 (6.7) MTC4208/10XLEV Models -13 (5.7) MTC4208/10XLEC Models - 13 or 14 (5. 7 or 6.7) depending on variant	14 (6.7)
Typical Weight Pounds (kg) ②	620 (281) Without Oil	625 (284) Without Oil
Output Location	Front/Rear	
Input to Output Drop Inches (mm)	9.0 (228.6)	
Maximum Torque Rating by Ratio Ratio/lb-ft (N•m) ①	1.00:1/9,750 (13 260) 2.05:1/5,000 (6800)	1.00:1/13,000 (17 680) 2.05:1/6500 (8840)
Maximum Speed Rating	3515 rpm With Cooler 2850 rpm Without Cooler	
PTO	Optional (Except EV and EC Models)	Not Available
Park Brake	Not Available	
Oil Pump	Standard / Provision for Oil Cooler Connection	
Speed Sensor	Standard	
Front Declutch	Standard	
Proportional Differential	Not Available	
Integral Mounting Bosses	Standard	
Airshift High/Low	Standard	
Airshift Front Declutch	Standard	
Synchronized Shift	Not Available	
Applicable Maintenance Manual	Maintenance Manual MM-0861	

Refer to page 21 for footnotes.
Additional oil is required for auxiliary oil coolers. Amount varies based on final oil cooler configuration, please contact your OEM representative for specific lubrication recommendations.

① Transfer case input torque ratings stated are for guide selection only. Application approval is required to conform the torque rating. Refer to TP-21107 for application guidelines regarding Meritor transfer cases.

② Typical transfer case weights are indicated for basic configurations of MTC4210XL and MTC4213 with common flanges and yokes (less lubricant).

③ 2.00" diameter shafts in axles with driver controlled main differential lock, NoSPIN® differential or wide track.

④ Transfer case oil capacities indicated are for basic units. Additional oil recommendations are available dependent upon features and configurations required. Please contact your Meritor representative for specific lubrication recommendations.

⑤ Available with optional TELMA retarder mounted to the axle for certain approved applications. Refer to Meritor product profile, TP-9482. To obtain this publication, call the Meritor OnTrac™ Customer Call Center at 866-OnTrac1 (668-7221).

⑥ The medium-duty MX Series axle housings are standard. Contact Meritor Engineering to discuss optional bowl offsets and spring mounting options.

⑦ Meritor Lube Management System (MLMS) included in this product.

⑧ MX120 Series carriers with the following specifications are no longer available: Gear ratios 3.07, 3.31, 3.58, 3.73, 3.91, 4.10, 4.33, 6.83, 7.17; without thrust screw; special options such as differential lock, Limited Slip differential, NoSPIN® differential, parking brake; 1.75x34 spline option; and QuietRide gearing option.

⑨ DCDL available in forward drive axles only.

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