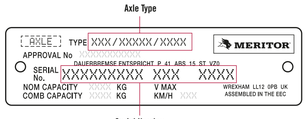
MERITOR® GUIDE TO ROR AXLES AND BRAKES

MERITOR
RUN WITH THE BULL

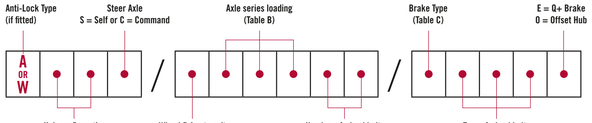
The Axle Identification Plate

Every axle leaving the Meritor factory is fitted with an identification plate which contains all the information needed to ensure the correct replacement parts are obtained.



Identifying the Axle Type

All LM series axles are fitted with 10 stud, ISO 4107 spigot mount wheel fixings and asbestos free brake pads or linings as standard. Other options are as shown below.



Axle Plate Example:

TM / T25010 / ACMX –
TM Hub - without ABS, 250 Axle Series, Twin Wheels, 10 Wheel Bolts, AC 310mm x 190mm Drum Brake, ISO 4107 type M22mm x 1.5mm Wheel Bolts

Table 'A'

Axle Letter Code	Hub Configuration
LM	Twin wheel bearings - Disc Brake or Drum Brake Brake Codes (Q+, H, D, E, K, J)*
LC	Single wheel bearing - Disc Brake or Drum Brake Brake Codes (Q+, H, D, E, K, J)*
TA	Twin wheel bearings - Disc Brake or Drum Brake Brake Codes (Q, Z, D, E, J)
TC	Single wheel bearing - Disc Brake or Drum Brake Brake Codes (Q, Z, D, E, J)
TE	Twin wheel bearings - Drum Brake only Brake Code (Q)
TM	Twin wheel bearings - Disc Brake or Drum Brake Brake Codes (AC, B, Q, Z, H, K)

* Q+ Brake equipment only fitted to LM/LC axles

Table 'B'

Axle Series	Nominal Highway Axle Rating kg	Tube Wall Thickness mm	Maximum Offset* mm
90	9,300	13	460
93**	9,300	16	490
200	9,500	13	460
225	10,170	16	490
250	11,690	16	490

The axle ratings shown are for normal highway applications and any special application for installation must be approved by Meritor Design Engineering.

* NB: Offset = $\frac{\text{Track} - \text{spring centres}}{2}$

** For use with non Meritor air suspensions

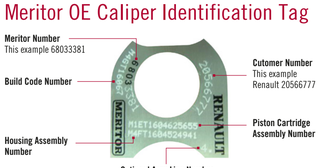
Table 'C'

Axle Letter Code	Brake Type
AC	310mm x 190mm Drum Brake
B	350mm x 200mm Drum Brake
D	D DUCO Disc Brake
E	ELSA 2 Disc Brake
H	DX195 Disc Brake
J	ELSA 225 Disc Brake
K	ELSA 195 Disc Brake
Q	420mm x 180mm Drum Brake
Z	420mm x 220mm Drum Brake

Table 'D'

Axle Letter Code	Wheel Mounting
S	¼" BSF (SMMT)
M	M22mm x 1.5mm metric (DIN)
J	'Trilex' type
MX	ISO 4107 type with M22mm x 1.5mm wheel bolts
MXA	ISO 4107 type with M22mm x 1.5mm wheel bolts for alloy wheels
B	Japanese M20 x 1.5mm

Meritor OE Caliper Identification Tag



LISA caliper has last 4 digits of part number stamped into this face

Meritor Part Number MCX....

Hubs for ROR Axles

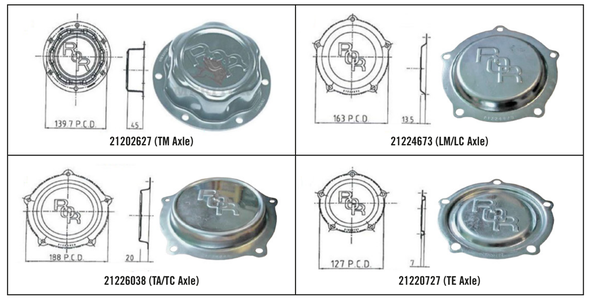
ROR	Brake System						Wheel Bolts		Wheel		Hub Type		Hub Part Number		Oil Seal	Bearing	
Axle type	Drum Brake			Disc Brake			10	08	Single	Twin	Standard	Offset	Original	Relpacement		Inner	Outer
LM																**LM**	**LM**
	YES	Q	420x180				10		YES		YES		14224748		21200321A	99041075	99041075
				YES	H	DX195	10		YES		YES		14225425		21200321A	99041075	99041075
				YES	H	DX195		08	YES	YES	YES		14227407		21200321A	99041075	99041075
				YES	E	ELSA 2	10		YES		YES		14225425		21200321A	99041075	99041075
				YES	E	ELSA 2	10		YES			YES	14227483		21200321A	99041075	99041075
				YES	K	ELSA 195		08	YES	YES	YES		14227407		21200321A	99041075	99041075
				YES	K	ELSA 195	10		YES		YES		14225425		21200321A	99041075	99041075
				YES	J	ELSA 225	10		YES		YES		14225425		21200321A	99041075	99041075
				YES	J	ELSA 225	10		YES			YES	14227483		21200321A	99041075	99041075
LC																**LC**	**LC**
	YES	Q	420x180				10		YES		YES		14225290		21200321A	COMPLETE HUB ONLY**	
	YES	B	350x200					08	YES	YES	YES		14227402		21200321A	COMPLETE HUB ONLY**	
				YES	H & K	DX195 & ELSA 195	10		YES		YES		14225494		21200321A	COMPLETE HUB ONLY**	
				YES	H & K	DX195 & ELSA 195		08	YES		YES		14227406		21200321A	COMPLETE HUB ONLY**	
				YES	E & J	ELSA 2 & ELSA 225	10		YES		YES		14225494		21200321A	COMPLETE HUB ONLY**	
				YES	E & J	ELSA 2 & ELSA 225	10		YES			YES	14227482		21200321A	COMPLETE HUB ONLY**	
TA																**TA**	**TA**
	YES	Q	420x180				10		YES	YES	YES		14226120		21200321A	99041035S	99041035S
	YES	Z	420x220				10		YES	YES	YES		14226120		21200321A	99041035S	99041035S
				YES	D	DUCO	10			YES	YES		14226121		21200321A	99041035S	99041035S
				YES	D	DUCO	10		YES		YES		14226492		21200321A	99041035S	99041035S
				YES	E	ELSA 2	10		YES		YES		14226492		21200321A	99041035S	99041035S
				YES	E	ELSA 2	10			YES	YES		14226121		21200321A	99041035S	99041035S
TC																**TC**	**TC**
	YES	Q	420x180				10		YES		YES		14226122 *	14226120	21200321A	ORIGINAL HUB P/N 14226122	
Refer to technical*	YES	Z	420x220				10			YES	YES		14226122 *	14226120	21200321A	ORIGINAL HUB P/N 14226122	
				YES	D	DUCO	10			YES	YES		14226123 *	14226121	21200321A	ORIGINAL HUB P/N 14226122	
				YES	D	DUCO	10		YES		YES		14226493 *	14226492	21200321A	ORIGINAL HUB P/N 14226493	
TE																**TE**	**TE**
	YES	Q	420x180				10		YES		YES		14219784		21220158	99041067B	99041068B
TM																**TM**	**TM**
	YES	AC	310x190	HUB NLA - ONLY BEARINGS				08					NLA		21200321A	99041045S	99041045S
	YES	AC	310x190					08	YES	YES	YES		14205190		21200321A	99041035S	99041045S
	YES	AC	310x190				10		YES	YES	YES		14203219		21200321A	99041035S	99041045S
	YES	B	350x200	HUB NLA - ONLY BEARINGS				08					NLA		21200321A	99041035S	99041045S
	YES	B	350x200					08	YES	YES	YES		14205190		21200321A	99041035S	99041045S
	YES	B	350x200				10		YES	YES	YES		14203219		21200321A	99041035S	99041045S
	YES	B	350x200	HUB NLA - ONLY BEARINGS			10					YES	NLA		21200321A	99041035S	99041045S
	YES	Q	420x180					08	YES	YES	YES		14205190		21200321A	99041035S	99041045S
	YES	Q	420x180				10						14204561***	14204562	21200321A	99041035S	99041045S
	YES	Q	420x180				10		YES	YES	YES		14204562		21200321A	99041035S	99041045S
	YES	Q	420x180				10		YES			YES	14210885		21200321A	99041035S	99041045S
	YES	Q	420x180	HUB NLA - ONLY BEARINGS						YES			NLA		21200321A	99041035S	99041045S
	YES	Q	420x180	HUB NLA - ONLY BEARINGS			10						NLA		21200321A	99041035S	99041045S
	YES	Z	420x220				10						14204561***	14204562	21200321A	99041035S	99041045S
	YES	Z	420x220				10		YES	YES	YES		14204562		21200321A	99041035S	99041045S
	YES	Z	420x220	HUB NLA - ONLY BEARINGS						YES			NLA		21200321A	99041035S	99041045S
	YES	Z	420x220	HUB NLA - ONLY BEARINGS			10						NLA		21200321A	99041035S	99041045S
				YES	H	DX195		08	YES	YES	YES		14224262		21200321A	99041035S	99041045S
				YES	K	ELSA 195		08	YES	YES	YES		14224262		21200321A	99041035S	99041045S

* ORIGINAL TC HUBS (CARTRIDGE BEARINGS) ARE SEALED UNITS AND NON-SERVICEABLE. TC HUBS ARE NOW OBSOLETE AND SHOULD BE REPLACED WITH TA HUBS (TWIN WHEEL BEARINGS). WHEEL BEARINGS CAN BE SERVICED AFTER TA HUB FITTED. SHOULD BE REPLACED IN AXLE SETS.
** LC HUBS (CARTRIDGE BEARINGS) ARE SEALED UNITS AND NON-SERVICEABLE. THE LC HUB IS ONLY AVAILABLE AS A COMPLETE UNIT.
*** OBSOLETE REPLACED WITH 14204562

Meritor Disc Brakes

ROR			Wheel Bolts		Caliper L/H		Caliper R/H		Brake Pads		Brake Disc	
Axle type	Brake Type		10	08	OE / NEW	RE-MAN	OE / NEW	RE-MAN	OE	ALTERNATIVE	OE	ALTERNATIVE
LM / LC												
	H	DX195	10		15224836SR	MXC4836	15224837SR	MXC4837	MDP5076	MDP3124K	MBR9018	MBR5073
	H	DX195		8	15224836SR	MXC4836	15224837SR	MXC4837	MDP5076	MDP3124K	MBR9014	MBR5079
	E	ELSA 2	10		LRG572	MXC9308023	LRG573	MXC9308024	MDP5073	MDP3131K	MBR9004	MBR5124
	K	ELSA 195	10		LRG703	MXC9307006	LRG702	MXC9307005	MDP5093	MDP3169K	MBR9018	MBR5073
	K	ELSA 195		8	LRG703	MXC9307006	LRG702	MXC9307005	MDP5093	MDP3169K	MBR9014	MBR5079
	J	ELSA 225	10		LRG764	MXC9309044	LRG765	MXC9309045	MDP5117	N/A	MBR9004	MBR5124
TA / TC												
	D	DUCO (18MM BOLTS)	10		LRG578	MXC9306001	LRG579	MXC9306002	MDP5057	MDP3125K	MBR9004	MBR5124
	D	DUCO (20MM BOLTS)	10		LRG536	MXC9306017	LRG537	MXC9306018	MDP5057	MDP3125K	MBR9004	MBR5124
	E	ELSA 2	10		LRG572	MXC9308023	LRG573	MXC9308024	MDP5073	MDP3131K	MBR9004	MBR5124
TE												
	N/A	DRUM BRAKE ONLY										
TM												
	H	DX195	10		15224836SR	MXC4836	15224837SR	MXC4837	MDP5076	MDP3124K	MBR9018	MBR5073
	H	DX 195		8	15224836SR	MXC4836	15224837SR	MXC4837	MDP5076	MDP3124K	MBR9014	MBR5079
	K	ELSA 195	10		LRG703	MXC9307006	LRG702	MXC9307005	MDP5093	MDP3169K	MBR9018	MBR5073
	K	ELSA 195		8	LRG703	MXC9307006	LRG702	MXC9307005	MDP5093	MDP3169K	MBR9014	MBR5079

Hub Caps



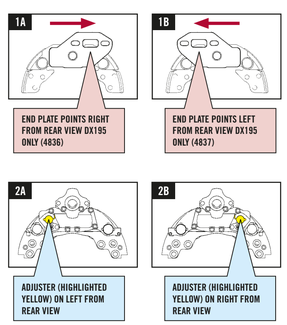
21202627 (TM Axle) | 21224673 (LM/LC Axle) | 21226038 (TA/TC Axle) | 21220727 (TE Axle)

Shoes and Drums

ROR					Part Number				Alternative
Axle Type	Brake Code	Brake Size	Wheel Bolts		Shoes Lined	Shoes Unlined	Lining Kit (Std Thickness Linings)	Drum	MBSK KIT
TM			10	8	1 x SHOE	1 x SHOE	AXLE SET*		1 x AXLE SET
					* 8 X LININGS - AXLE SET				
	AC	310x190	YES		15206004R	15206005B	BLKAR	2120972S	
	B	350x200	YES		15209714R	15209713B	BLKBR	21211030S	
	Q	420x180	YES		15205536R	15205533S	BLKQR	21018986V	MBSK1000-4
	Z	420x220	YES		15205192R	15205191S	BLKZR	21021114AV	MBSK1010-4
	AC	310x190		YES	15206004R	15206005B	BLKAR	21020448S	
	B	350x200		YES	15209714R	15209713B	BLKBR	21211966S	
	Q	420x180		YES	15205536R	15205533S	BLKQR	21021317S	MBSK1000-4
	Z	420x220		N/A	N/A	N/A	N/A	N/A	N/A
TE									
	Q	420x180	YES		15205536R	15205533S	BLKQR	21220183V	MBSK1000-4
TA									
	Q	420x180	YES		15205536R	15205533S	BLKQR	21018986V	MBSK1000-4
	Z	420x220	YES		15205192R	15205191S	BLKZR	21021114AV	MBSK1010-4
TC									
	Q	420x180	YES		15205536R	15205533S	BLKQR	21018986V	MBSK1000-4
	Z	420x220	YES		15205192R	15205191S	BLKZR	21021114AV	MBSK1010-4
LM									
	Q+	420x180	YES		15224952R	15224724S	BLKQPLUS	21220183V	MBSK1040-4
LC									
	Q+	420x180	YES		15224952R	15224724S	BLKQPLUS	21220183V	MBSK1040-4

MBSK KITS CONTAIN- 4 X LINED SHOES, SPRINGS, ROLLERS, CLIPS

Meritor Calipers



Caliper Type	Caliper P/N	Side	I.D. Plate OE	I.D. Plate Service	Housing Casting	Housing Kit	Guide Pin Kit
DX195							
1A	15224836SR	LH	DX19525/33/47K	DX19551K		N/A	MCK1171
1B	15224837R	RH	DX19526/34/48K	DX19552K		N/A	MCK1171
ELSA 2							
2A	LRG572	LH	68033353	68033361	68324619/4245	MCK1345	MCK1243
2B	LRG573	RH	68033354	68033362	68324618/4244	MCK1346	MCK1243
ELSA 195							
2A	LRG703	LH	68033359/3601	68033775	68325328/5327/4644	MCK1331	MCK1255
2B	LRG702	RH	68033360/3602	68033774	68325329/5326/4643	MCK1332	MCK1255
DUCO (18MM)							
2A	LRG578	LH	68033331	68034553	68323925	N/A	MCK1116
2B	LRG579	RH	68033332	68034554	68323926	N/A	MCK1116
DUCO (20MM)							
2A	LRG536	LH	68033116/2959	68035066	68323925	N/A	MCK1134
2B	LRG537	RH	68033117/2960	68035067	68323926	N/A	MCK1134
ELSA 225							
2A	LRG764	LH	68033981	68034032	3263Q1343/L1338	MCK1381	MCK1255
2B	LRG765	RH	68033982	68034033	3263P1342/K1337	MCK1382	MCK1255

FOR CALIPER SERVICE KITS REFER TO PUBLICATION: MC1190 MERITOR TRAILER DISC BRAKE SPARES

www.meritorpartsxpress.com/eu

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