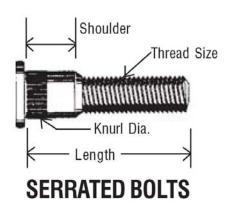
Toyota MR2 - Wheel Stud Guide



The FAQ is only to be used as a guide. Always use the best quality stud you can buy. Today the best quality stud is made by ARP. Another manufacturer, Dorman, supply studs to your local auto parts stores and to online shops like Rock Auto. Please be aware that the "import market" and e-Bay are being swamped with inferior studs made overseas. These cheap studs can break un-expectantly creating a very dangerous situation.

Studs should be inspected on a regular basis. They should be closely inspected at any high speed event, like a track day, autoX or drag race. Physically remove the wheel and inspect the stud. Galled, corroded or stripped studs should be removed and replaced.

Always press the new stud in straight. Use a press or a wheel stud installer (i.e. Kastar 938 Wheel Stud Installer Kit – around USA \$50.00). Using wheel nuts to "pull" the stud into place can over-stress the stud and weaken it. Do not over torque the stud when installing wheels. Follow manufacturer's instructions on proper torque technique.

Toyota MR2 1984-1998		
Toyota MR2 Spyder 1999-2006	Front	Rear
Type	Serrated	Serrated
Thread	M12-1.5	M12-1.5
Knurl Diameter	14.20mm	14.20mm
Length	40mm	40mm
Shoulder Length	8mm	8mm

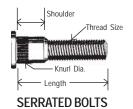
All Toyota MR2's use the same studs. Only the lug nut was changed to match the wheel.

Year	Quantity	Pattern
1984 – 1989	4	100mm
1990 – 1998	5	114.3mm
1999 – 2006	4	100mm

The following pages were taken from the 2006 Dorman parts catalog. They list all studs in the M12-1.5 category. The Knurl diameter can always be enlarged with a drill. Be advised that the hole in the hub cannot be made smaller. 14.20mm knurl is about as small as you can get. In an emergency the holes can be welded shut, re-drilled and re-heat treated.

When a stud has stripped the hub, you can use a larger diameter knurl to fix the assembly. Do not go too large as for example, there is not enough metal on the MK1 MR2 hub to support anything larger than a 1mm overbore. From the edge of the hole to the edge of the hub circle is only 3.50mm.

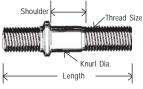
The follow pages are included as references only. Please visit <u>www.dormanproducts.com</u> for the latest product info and pricing.





SHOULDER BOLTS





WHEEL BOLT

DOUBLE ENDED STUDS



610-324

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	12.70mm	34.5mm	9mm



610-254

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	12.73mm	41.5mm	8mm



	610	NEW!	
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	12.73mm	51mm	9.4mm



	610-468		NEW!
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	12.80mm	43.8mm	14.7mm



610-323

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	12.80mm	54mm	8mm



0.0 = 70			
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	12.90mm	37.5mm	13mm

M12-1.5



610-415

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	11.99mm	50.5mm	13.5mm



ThreadKnurl Dia.LengthShoulderM12-1.512.22mm36mm9mm



610-362

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	12.30mm	34mm	9mm



610-408

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	12.34mm	48mm	13.5mm

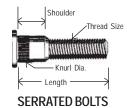


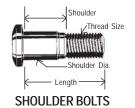
610-360

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	12.37mm	42mm	11mm

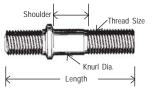


Thread	Knurl Dia.	Length	Shoulder	
M12-1.5	12.50mm	39.5mm	11.5mm	









WHEEL BOLT

Thread

M12-1.5

DOUBLE ENDED STUDS

Shoulder

12.5mm





610-410

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	12.90mm	46mm	23mm



Thread	Knurl Dia.	Length	Shoulder
M12-1.5	12.90mm	56mm	29mm



610-340

Length

42mm

Knurl Dia.

13.08mm

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	13.08mm	52mm	25.5mm



610-294

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	12.95mm	36mm	8mm



610-413

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	13.16mm	43mm	11mm



610-270

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	13.03mm	36.5mm	10.5mm



610-440

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Thread	Knurl Dia.	Length	Shoulder
M12-1.5	13.2mm	36.5mm	12.7mm

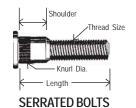


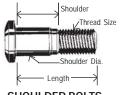


Thread	Knurl Dia.	Length	Shoulder
M12-1.5	13.06mm	42.5mm	18mm



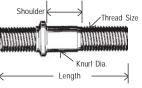
610-484			NEW:
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	13.25mm	51.6mm	15.8mm





SHOULDER BOLTS





WHEEL BOLT

DOUBLE ENDED STUDS



Thread	Knurl Dia.	Length	Shoulder
M12-1.5	13.55mm	43.5mm	15.5mm





Thread	610-470		NEW:	
	Knurl Dia.	Length	Shoulder	
M12-1.5	13.31mm	51.5mm	15.5mm	



Thread	Knurl Dia.	Length	Shoulder
M12-1.5	13.41mm	51.5mm	13.5mm



	010-443		182	
Thread	Knurl Dia.	Length	Shoulder	
M12-1.5	13.56mm	50.8mm	13.5mm	



610-306 Knurl Dia. Thread Length Shoulder M12-1.5 13.46mm 14mm 48mm



0.00.			
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	13.59mm	46mm	11mm



610-374

0.007.			
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	13.50mm	47mm	10mm



610-342

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	13.59mm	46.5mm	14mm



610-417

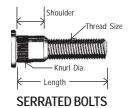
0.0				
Thread	Knurl Dia.	Length	Shoulder	
M12-1.5	13.51mm	41mm	13mm	





610-376

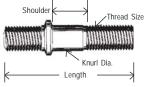
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	13.82mm	49mm	14mm





SHOULDER BOLTS





DOUBLE ENDED STUDS

M_{12-1.5} (continued)





Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.17mm	44.5mm	12.5mm





610-427

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	13.95mm	55.3mm	13.7mm



	61	610-452	
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.00mm	43.8mm	17.2mm



610-266

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.20mm	40mm	8mm



	61	NEW!	
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.20mm	44.1mm	17mm



610-253

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.10mm	38.5mm	11.5mm



	610	0-463	NEW!
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.20mm	55mm	26.6mm



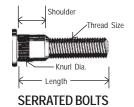
610-245

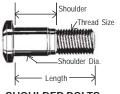
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.15mm	38.5mm	9mm



610-244

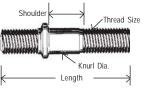
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.22mm	37mm	8mm





SHOULDER BOLTS





WHEEL BOLT

DOUBLE ENDED STUDS



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Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.33mm	52.5mm	25mm



M12-1.5 (continued)

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.22mm	37.5mm	11mm



610-276

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Thread	Knurl Dia.	Length	Shoulder		
M12-1.5	14.30mm	35.5mm	6.5mm		



	610	0-460	NEW!
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.34mm	46mm	15mm



610-275

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.30mm	41.5mm	6.5mm



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Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.35mm	37.5mm	7mm



	610	NEW!	
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.30mm	43mm	12mm



Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.35mm	42.5mm	8mm



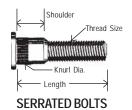
610-265

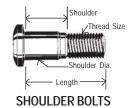
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.32mm	44.5mm	10mm



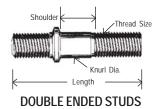
610-414

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.38mm	45mm	10.5mm









M12-1.5 (continued)



610-291

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.40mm	39mm	12.5mm





	610-476		NEW!
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.60mm	44.5mm	13.4mm



0.0.0				
Thread	Knurl Dia.	Length	Shoulder	
M12-1.5	14.40mm	47mm	20.5mm	



Thread	610-473		NEW!	
	Knurl Dia.	Length	Shoulder	
M12-1.5	14.73mm	45.5mm	18.5mm	



610-302

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.45mm	42mm	11.5mm





Thread	61	610-474	
	Knurl Dia.	Length	Shoulder
M12-1.5	14.77mm	43.8mm	13.3mm



Thread	610-445		NEV.	
	Knurl Dia.	Length	Shoulder	
M12-1.5	14.48mm	49.2mm	7mm	





610-239

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.83mm	40mm	7mm



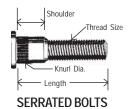
610-387

0.000.			
Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.55mm	49mm	11.5mm



Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.86mm	52.2mm	14.5mm

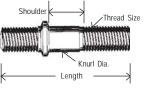
Clip Head





SHOULDER BOLTS





WHEEL BOLT

DOUBLE ENDED STUDS



610-370

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	15.80mm	44mm	16.5mm



610-321

M12-1.5 (continued)

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.91mm	38.5mm	16mm



610-285

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.94mm	41mm	13.5mm



Thread	Knurl Dia.	Length	Shoulder
M12-1.5	15.87mm	44.5mm	13mm



610-369

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	14.99mm	46mm	19mm





610-457

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Thread	Knurl Dia.	Length	Shoulder
M12-1.5	16.10mm	41.3mm	13mm



610-388

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	15.42mm	51mm	15.5mm



610-372

Thread	Knurl Dia.	Length	Shoulder
M12-1.5	16.18mm	44mm	17mm



Thread	Knurl Dia.	Length	Shoulder
M12-1.5	15.55mm	46.5mm	17.5mm





Head				
	610-438	NEW!		

Γhread	Knurl Dia.	Length	Shoulder
V12-1.5	16.24mm	44.5mm	12.7mm