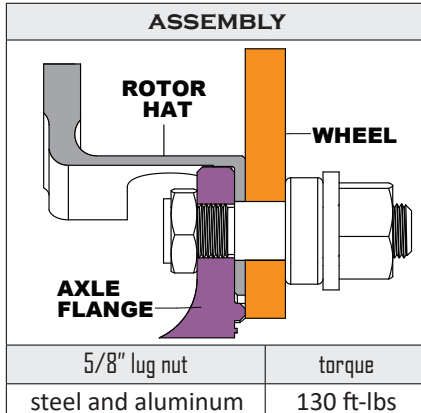


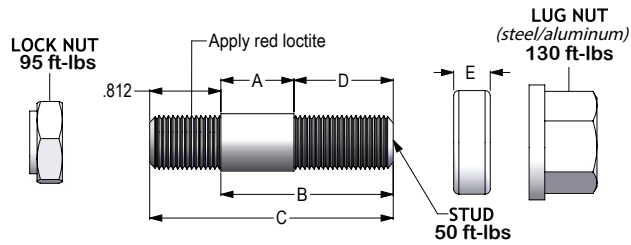
Strange

SHOULDER STYLE WHEEL STUDS

- Ensure measurement "A" is able to fully engage into the wheel. The "A" dimension needs to be slightly greater than the combined thickness of the brake hat or drum and thickness of the wheel.



5/8"-18 CHROME-MOLY STUD KITS

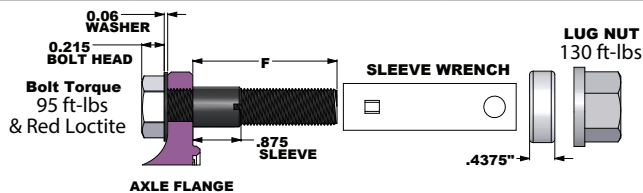


add "S" or "L" at the end of part number for
S= 0.250" washers
L= 0.688" washers

Kit #	stud material	lug nut material	A	B	C	D	E
A1037TS	Titanium	Steel	0.875	2.063	2.875	1.188	0.4375
A1037TA	Titanium	Aluminum	0.875	2.063	2.875	1.188	0.4375
A1036	Chrome-Moly	Steel	0.775	1.550	2.362	0.775	0.250
A1037	Chrome-Moly	Steel	0.875	2.063	2.875	1.188	0.4375
A1037MD	Chrome-Moly	Steel	0.875	1.760	2.572	0.885	0.250
A1038	Chrome-Moly	Steel	1.187	2.375	3.187	1.188	0.4375
A1039	Chrome-Moly	Steel	1.500	2.688	3.500	1.188	0.4375
A1041	Chrome-Moly	Steel	1.875	3.125	4.000	1.250	0.4375

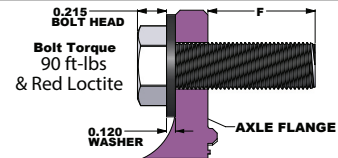
BOLT HEAD STYLE STUDS

5/8"-18 KIT



Kit #	bolt thread length	lug nut torque
A1027	3"	130 ft-lbs

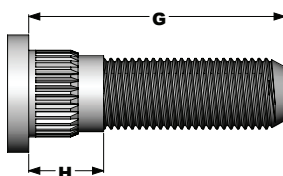
1/2"-20 KITS & M 12 x 1.5



Kit #	bolt thread length	lug nut torque
A1025	2"	90 ft-lbs
A1026	3"	
A1035	50mm	85ft-lbs

- to calculate length "F" protruding through the axle to mount the rotor and wheel on use the following method:
 - For A1025 & A1026 kits: "F" = bolt thread length - 0.120" - axle flange thickness
 - For A1027 kit: "F" = bolt thread length - 0.060" - axle flange thickness
- Ensure the combined thickness of the bolt head and washer does not interfere with parking brake components. 5/8" bolts with modified heads are available and washers can be removed if clearance is an issue. However, if washers are not used, the inboard side of the axle must be modified with a 3/4" chamfer on the stud holes to allow bolt to fully engage. All 1/2" bolts feature a thin head.

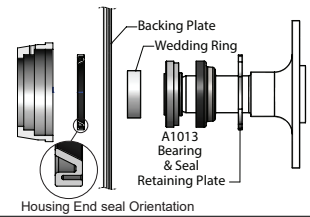
PRESS-IN WHEEL STUDS (ALLOY AXLES)



Part #	Thread	G	H	Lug nut Torque
A3121	1/2"-20	1.970	.530	90 ft-lbs
A3130	7/16"-20	1.500	.344	80 ft-lbs
A3132 (metric)	M12-1.5	41.55 (mm)	8 (mm)	85 ft-lbs
A3151	1/2"-20	1.600	.563	90 ft-lbs
A3162	1/2"-20	1.650	.438	90 ft-lbs

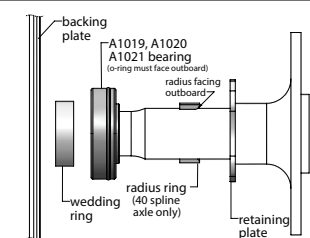
A 1013

tapered bearing



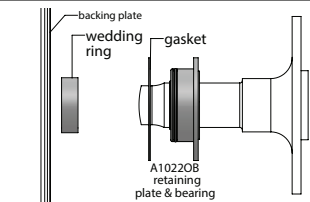
A1019, A1020, A1021

ball bearing



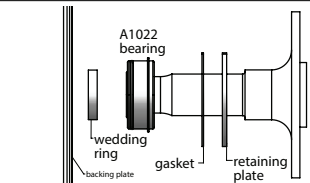
A 1022OB

old style Mopar ball bearing



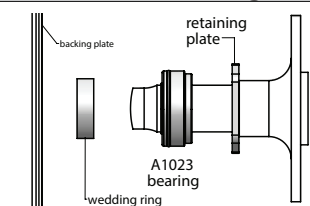
A 1022

new style Mopar ball bearing



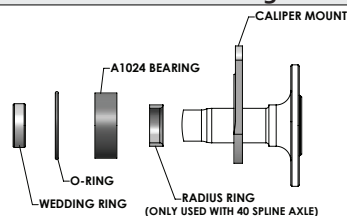
A 1023

small ford ball bearing



A 1024

double row ball bearing



1. Inspect the rear end housing for straightness.

If the housing has been narrowed inspect the housing ends for square-ness

2. Clean bolts or studs and install into axle flange until 0.250" thread remains.

⚠ Apply red loctite and torque to spec. (refer to page 1 for assembly views)

A. Shoulder style studs torque to 50 ft-lbs and red loctite from outboard

Then use a ¼" allen wrench to hold the stud from back out and torque the lock nut to 95 ft-lbs

B. A1027 ⅝" bolt head style studs torque to 95 ft-lbs and red loctite

C. A1025 & A1026 ½" bolt head style studs torque to 90 ft-lbs and red loctite

D. Press-in wheel studs must be installed using a hydraulic press. Ensure the stud seats flat against the axle flange

3. For 40 spline axle applications, install the radius ring on the axle by hand with the large 0.165" I.D. radius facing outboard. All other applications will have the radius rings or sleeves already pressed on the axle.

4. Slip the bearing retainer plate over the axle. This plate is replaced by the caliper mounting bracket if a Strange or aftermarket brake kit is utilized.

Consult brake kit instructions for more information.

5. Pressing only on the inner race, use a hydraulic press to install the new bearing on the axle. Apply a slight coating of oil to the axle shaft bearing surface to aid in bearing installation. Bearing must be pressed on evenly and rest squarely on the axle's bearing shoulder without a gap.

A1013 tapered bearing is designed for the seal to be on the outside of the bearing. Step on the O.D. must face outboard. The retaining plate will push the seal in once the nuts on the housing end are tightened.

A1019, A1020, A1021 o-ring on the O.D. of the bearing must face outboard

A1022OB bearing and retaining plate are on piece

A1022 bearing and retaining plate are separate pieces. Spirolox faces outboard

A1023 Inboard axle seals in stock rear end housings must be removed if present. O-ring must face inboard. The bearing is fully sealed and does not require the inboard axle seal.

A1024 Bearing is symmetrical and can be installed in either orientation. Not intended for use with drum brakes. A separate o-ring must be installed in the housing end to seal the O.D. of the bearing before the bearing is installed. Aftermarket brakes and housing ends must be used.

⚠ Retaining plate ⅝" hardware torque to 30 ft-lbs

6. Use a hydraulic press to install the wedding ring. Press evenly and check that the wedding ring seats on the axle bearing. The wedding ring is a press fit and should seat firmly against the bearing. There should not be any gap between the bearing and wedding ring.

Do not weld the wedding rings to the axle

7. Check the engagement of the axle splines. Coat the axle splines with grease and install the axles into the axle housing and carrier. Remove the axles and measure the amount of spline engagement. Minimum spline engagement is one inch.

Note: some posi-units will only accept ⅝" engagement

8. Lug nuts should be checked for torque regularly. Clean and lightly lubricate threads with oil.

Torque ½" lug nuts to 90 ft-lbs and ⅝" lug nuts to 130 ft-lbs

Refer to figure below for proper lug nut torque sequence

Note: Consult wheel manufacturer to ensure lug nut torque spec is safe for specific wheel type as some aluminium wheels may begin to crush.

BEARING INFO AND DIMENSIONS

Part #	I.D.	O.D.	TYPE
A1013	1.562	3.150	Tapered
A1019	1.772	3.150	Ball
A1020	1.531	3.150	Ball
A1021	1.562	3.150	Ball
A1022OB	1.562	2.875	Ball
A1022	1.562	2.875	Ball
A1023	1.562	2.835	Ball
A1024	1.772	3.350	Double Row Ball

LUG NUT TORQUE SEQUENCE

