

SAFETY HUB KIT INSTALLATION INSTRUCTIONS

Installation to be performed by a qualified technician.

Kit #
A1034

APPLICATIONS

- Factory Small G.M. Housing
- Factory Drum Brakes
- Strange Engineering Race Axle

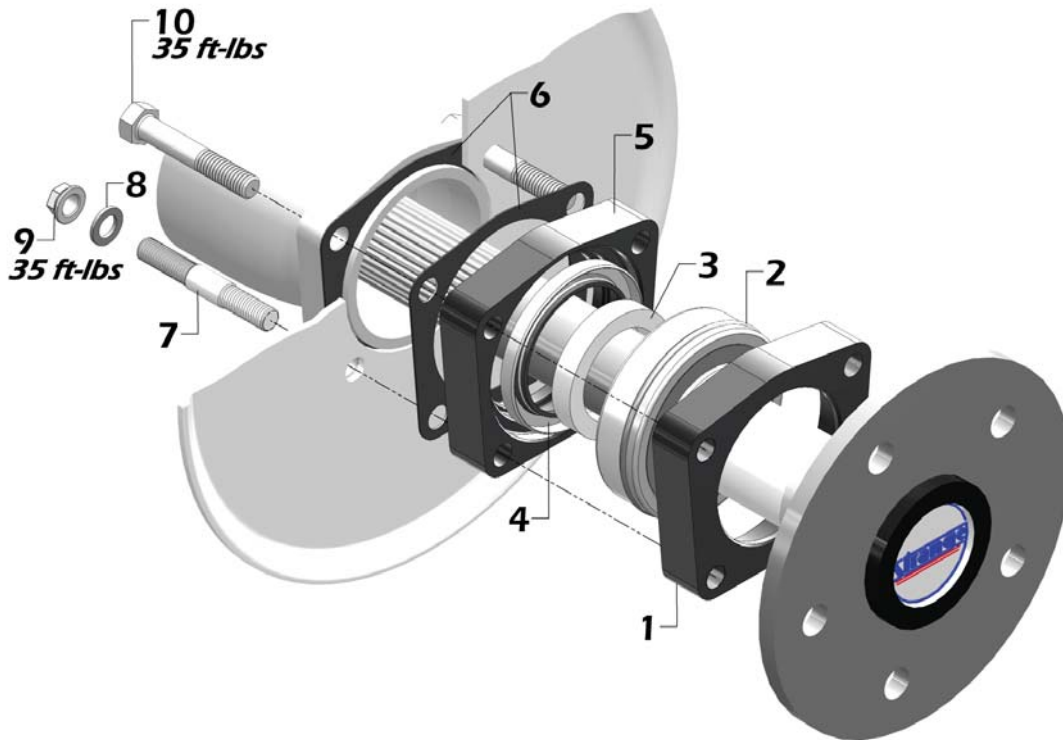
Important Notes:

RTV Silicone is required for this installation

Read these instructions thoroughly and save for future reference. If after reading these installation instructions, you have any questions or comments, please do not hesitate to call us.

ITEM#	PART#	QTY	DESCRIPTION
1	A1030BZ	2	Safety Hub Outer Half
2	A1021	2	Ball Bearing
3	A1090C	2	Wedding Ring
4	A1030C	2	Seal
5	A1030A	2	Safety Hub Inner Half
6	A1030E	4	Gasket
7	A1030G	2	Safety Hub Stud
8	S3402N	2	3/8 Washer
9	F1282	2	3/8-24 Jet Nut
10	A1030D	8	3/8-16 x 2" HHCS

Figure #1 Exploded View



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Axle Preparation

1. Slide the outer hubs (1) over each axle shaft, with the small bore of the hub facing the axle flange.
2. Using a hydraulic press, press the bearing (2) onto the axle shafts. Press only on the INNER RACE of the bearing. Ensure bearing is pressed evenly onto the axle.

Notes:

- A) O-Ring must face toward the axle flange. (the radi of the bearing should mate to the radi of the axle shoulder)
 - B) Before installing the bearing ensure that the axle bearing area is smooth (not galled) and the axle shaft is not running out- otherwise premature bearing failure may occur.
 - C) Press the bearing on until it contacts the shoulder on the Strange Engineering axle
3. Using a hydraulic press, install the wedding ring (3). 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 BE NO MOVEMENT OF THE INNER RACE.

Housing Preparation

4. Remove the axles from the housing.
Remove brake backing plates and studs from housing end flanges.
5. Remove the stock bearings and seals from the housing end snouts.
Note: This is best accomplished using a slide hammer.
6. Using a hacksaw, shorten the snouts to a length of 1/4" (see figure 2)
7. Re-install brake backing plates with gaskets (6) on either side.
Note: Apply a thin layer of RTV sealer to both sides of gaskets.
8. Push the bolts (10) thru the housing end and backing plate assemblies.
Note: Depending on the application, a bolt (10) may not fit into one of the lower axle housing bores. In this case, screw in a single safety hub stud (7) into the respective safety hub outer half threaded hole.
9. Ensure the seals (4) are pressed into and seated securely into the inner hubs (5).
10. Align the inner hub (5) over the brake backing plate bolts, with the small bore of the inner hub towards the backing plate.
Note: Inner hub should slide over the "snout" easily (do not force)

Axle Installation

11. Coat the spline portion of each axle with white lithium grease. This will enable you to determine axle spline engagement. (minimum one inch)
12. Slide the axles into the rear end housing and rotate the outer hub (1) to align with the brake backing plate bolts (10/7) .Torque bolts to 35 ft-lbs. If using a differential, make sure the axle does not contact the cross pin.
13. Remove the axles from the housing. Check for minimum spline engagement (one inch)
14. Reassemble and re-torque bolts to 35 ft-lbs.

Figure #2 Housing End Modification

