



FEA-0027 / Universal Drive Shaft Assembly

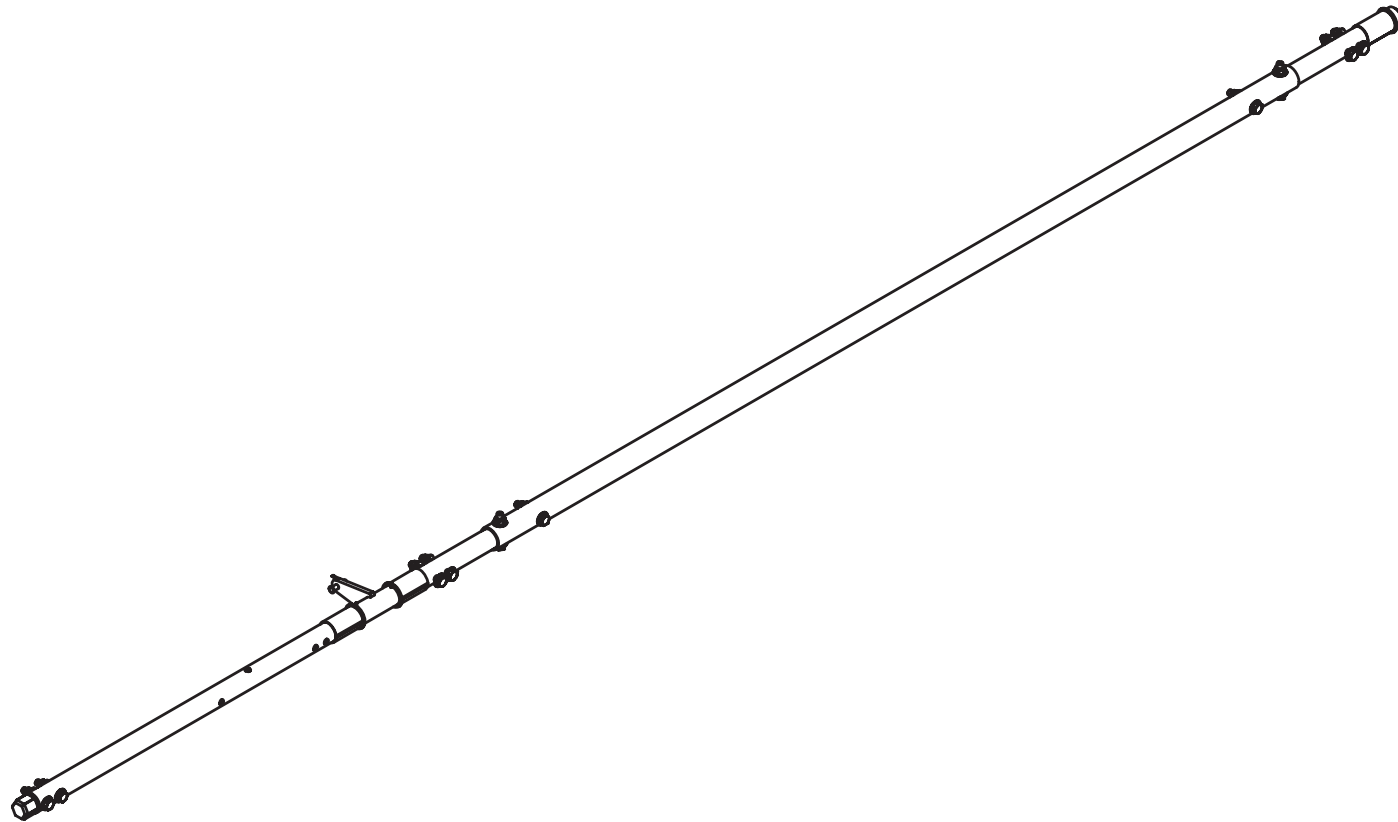




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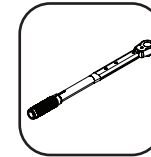
Assembly Requirements

FEA-0027



INSTALLER NOTE: It is important to correctly follow these assembly instructions. These instructions for assembly are provided by the manufacturer at time of ErgoRack delivery, and reflect the technical specifications applicable at the time of writing.

- These instructions are subject to change if the manufacturer revises the parts and/or production of the subsystems and accessories used in the brand's vehicles. Following the instructions for assembly will ensure proper installation of the product. The manufacturer will not be held liable if these instructions are not followed.
- The addition of parts and/or components not original to this ErgoRack are discouraged. Use only OEM supplied parts.
- Consultation of the OEM vehicle may be required during assembly to avoid vehicle damage. Ensure bolt locations will not damage any critical parts of the vehicle—i.e. gas tank, wiring harnesses, or hoses-before drilling.



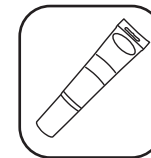
Torque Wrench



Ratcheting Wrench



13 MM Socket



Silicone Sealant (Not Included)

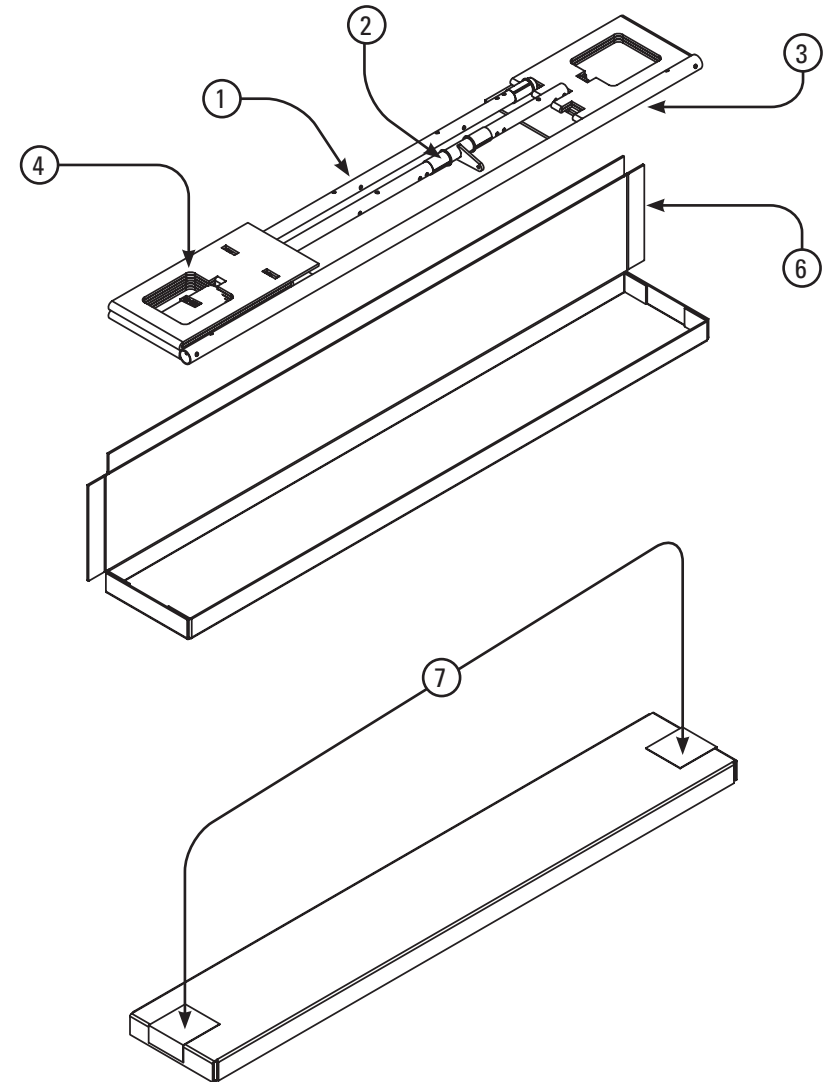


INSTALLATION INSTRUCTIONS

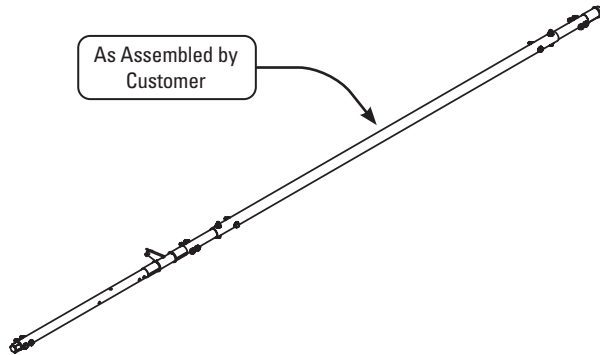
ITEM	DESCRIPTION	QTY
1	LONG UNIVERSAL DRIVE SHAFT FRONT	1
2	UNIVERSAL DRIVE SHAFT REAR ASSY	1
3	CONNECTING BAR, 5' PAINT	1
4	DRIVESHAFT HARDWARE KIT	1
5	TEMPLATE UNI. DRIVE SHAFT INSERT (NOT SHOWN)	4
6	BOX, 1.88 IN X 9.5 IN X 60 IN	1
7	LABEL BLUE 4IN X 6IN FEA-0027 BOX	2

For a list of replacement parts, see page 5.

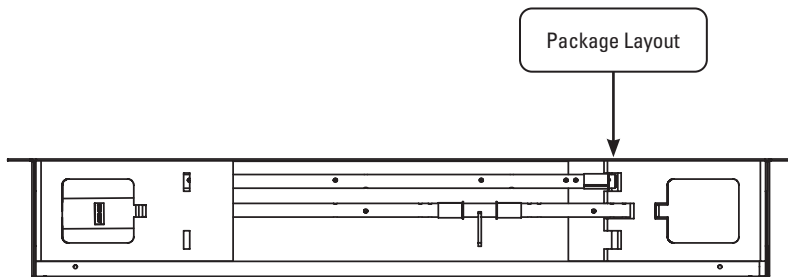
Universal Drive Shaft Assembly (6ft - 8ft) / FEA-0027



As Assembled by Customer



Package Layout

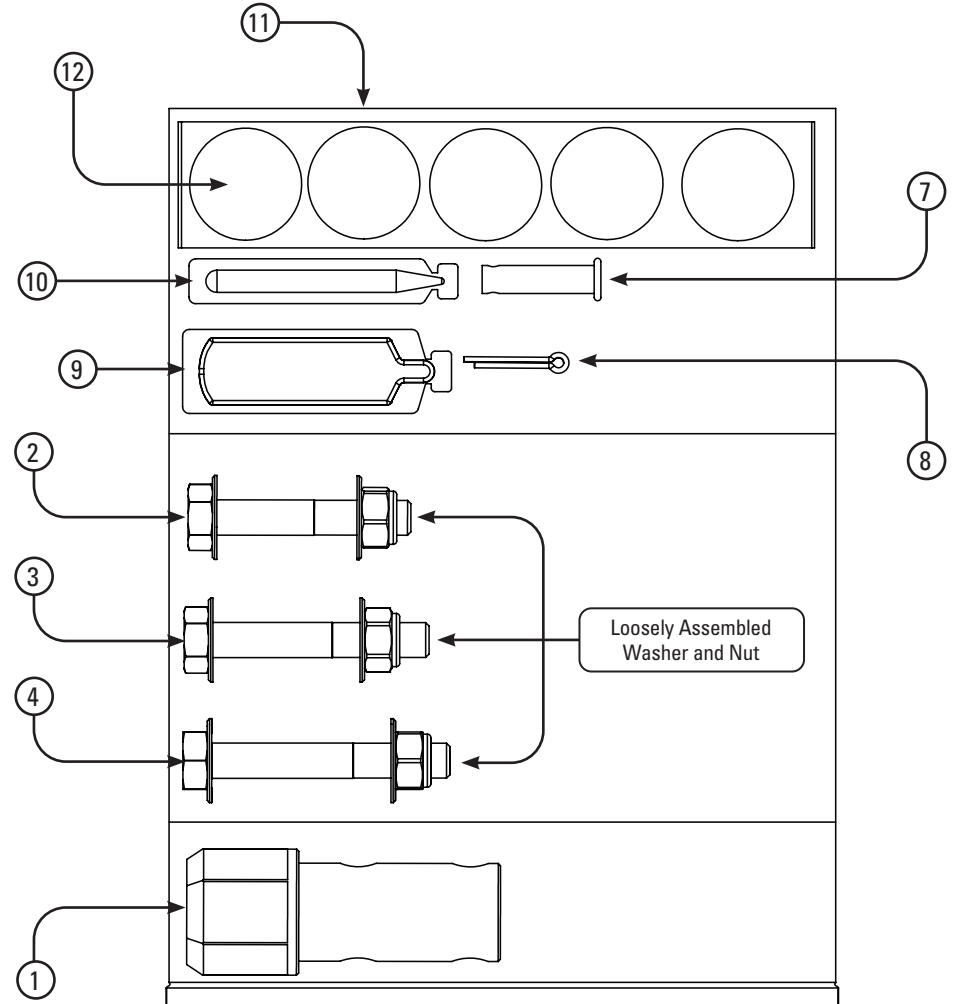
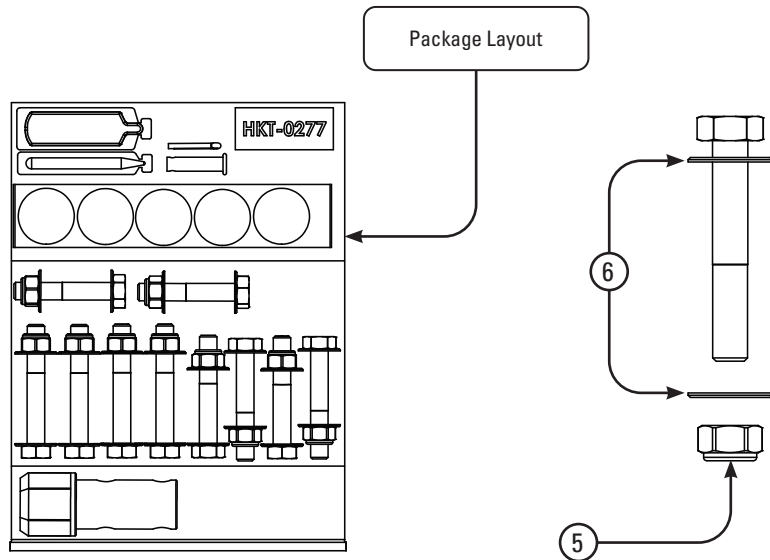




INSTALLATION INSTRUCTIONS

Driveshaft Hardware Kit / HKT-0277

ITEM	DESCRIPTION	QTY
1	DRIVE SHAFT HEX STUD, 25MM"	1
2	M8 X 45MM HEX HEAD BOLT	2
3	M8 X 50MM HEX HEAD BOLT	4
4	M8 X 55MM HEX HEAD BOLT	4
5	M8 LOCKNUT	10
6	5/16" FLAT WASHER	20
7	CYLINDER CLEVIS PIN	1
8	3/32 X .75 COTTER PIN, SST	1
9	ANTI-SEIZE C-5 - 2ML CLEAR PACK 2.0 GRAM	1
10	BUSHING LUBRICANT	1
11	BAG, POLY 4 MIL 6 IN X 8 IN	1
12	HOLE COVER 1 IN x 1 IN	20





INSTALLATION INSTRUCTIONS

ErgoRack

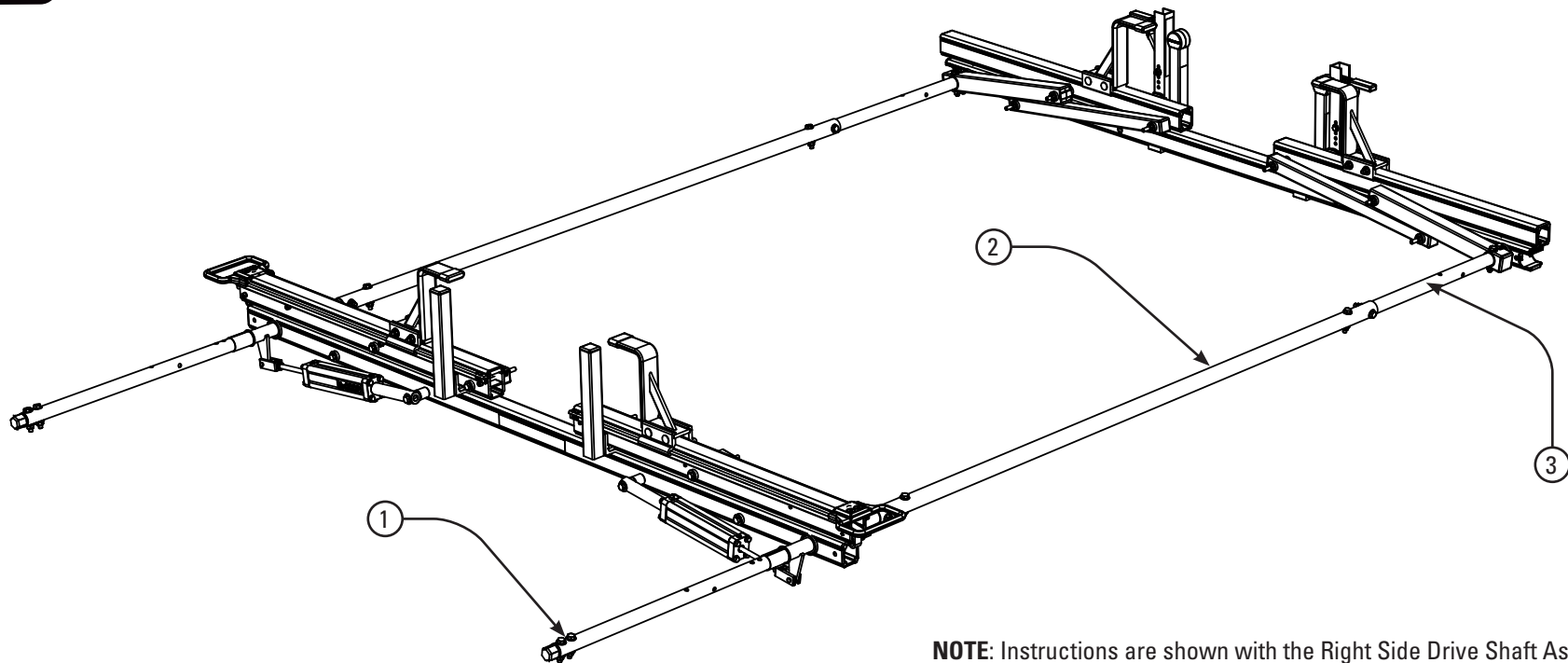
ITEM	DESCRIPTION
1	REAR DRIVESHAFT (MULTI-POSITION)
2	CONNECTING BAR
3	FRONT DRIVE SHAFT
4	DRIVE SHAFT HARDWARE KIT (PAGE 3)

Rotation Assembly Sequence



Usage: Long drive shaft assembly used for carrying longer step and extension ladders.

NOTE: Crossbars and RH Rotation feature are shown for illustrative purposes only. Crossbars and Rotations are not included with this Drive Shaft feature, and must be purchased separately.



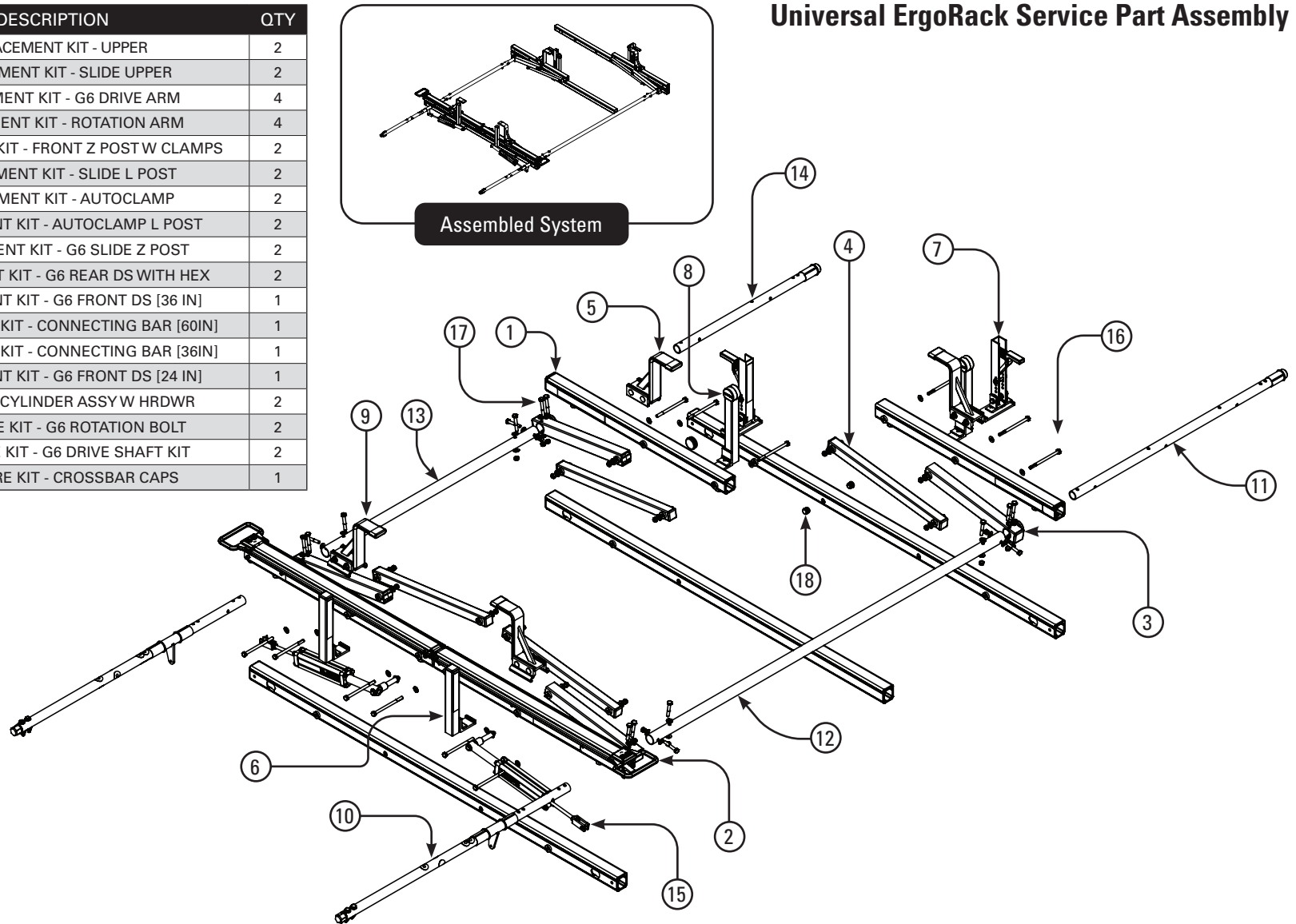
NOTE: Instructions are shown with the Right Side Drive Shaft Assembly Sequence. The Left Side Drive Shaft Assembly Sequence is identical, and all steps are the same.



INSTALLATION INSTRUCTIONS

Universal ErgoRack Service Part Assembly

ITEM	PART #	DESCRIPTION	QTY
1	RKT-8000	REPLACEMENT KIT - UPPER	2
2	RKT-8001	REPLACEMENT KIT - SLIDE UPPER	2
3	RKT-8002	REPLACEMENT KIT - G6 DRIVE ARM	4
4	RKT-8003	REPLACEMENT KIT - ROTATION ARM	4
5	RKT-8004	REPLACEMENT KIT - FRONT Z POST W CLAMPS	2
6	RKT-8005	REPLACEMENT KIT - SLIDE L POST	2
7	RKT-8006	REPLACEMENT KIT - AUTOCLAMP	2
8	RKT-8007	REPLACEMENT KIT - AUTOCLAMP L POST	2
9	RKT-8008	REPLACEMENT KIT - G6 SLIDE Z POST	2
10	RKT-8009	REPLACEMENT KIT - G6 REAR DS WITH HEX	2
11	RKT-8010	REPLACEMENT KIT - G6 FRONT DS [36 IN]	1
12	RKT-8012	REPLACEMENT KIT - CONNECTING BAR [60IN]	1
13	RKT-8013	REPLACEMENT KIT - CONNECTING BAR [36IN]	1
14	RKT-8011	REPLACEMENT KIT - G6 FRONT DS [24 IN]	1
15	ACL-125	HYDRAULIC CYLINDER ASSY W HRDWR	2
16	HKT-8210	HARDWARE KIT - G6 ROTATION BOLT	2
17	HKT-8211	HARDWARE KIT - G6 DRIVE SHAFT KIT	2
18	HKT-8212	HARDWARE KIT - CROSSBAR CAPS	1

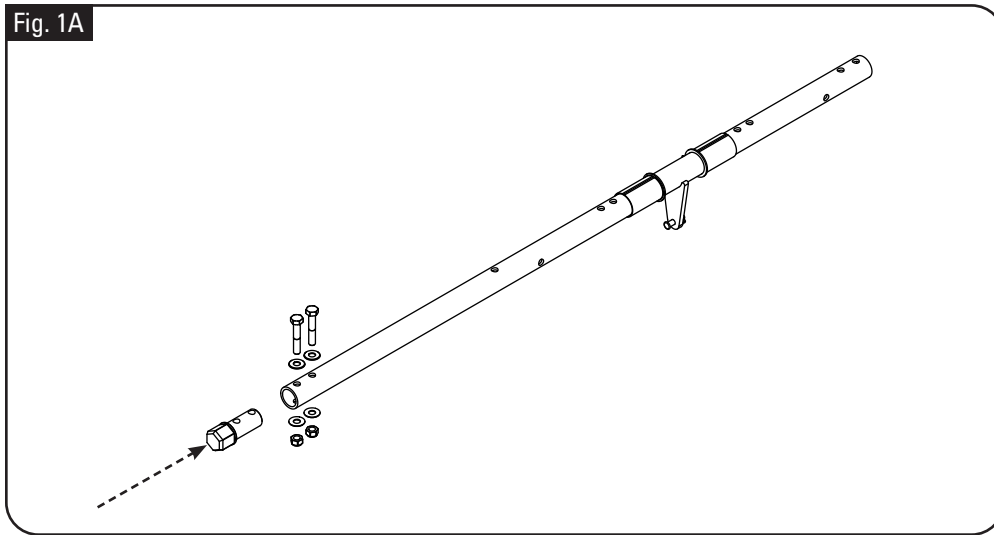




INSTALLATION INSTRUCTIONS

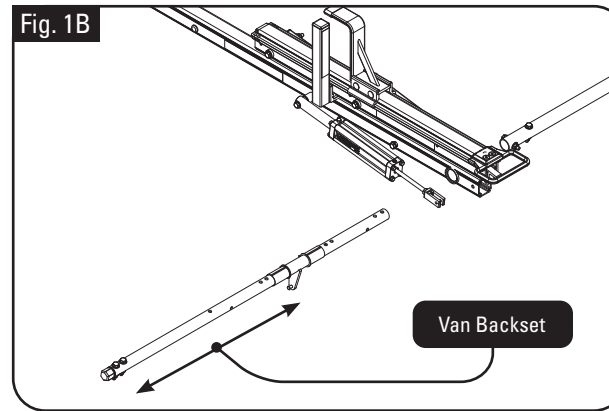
Rear Drive Shaft (Two Vehicle-Based Positions)

Fig. 1A



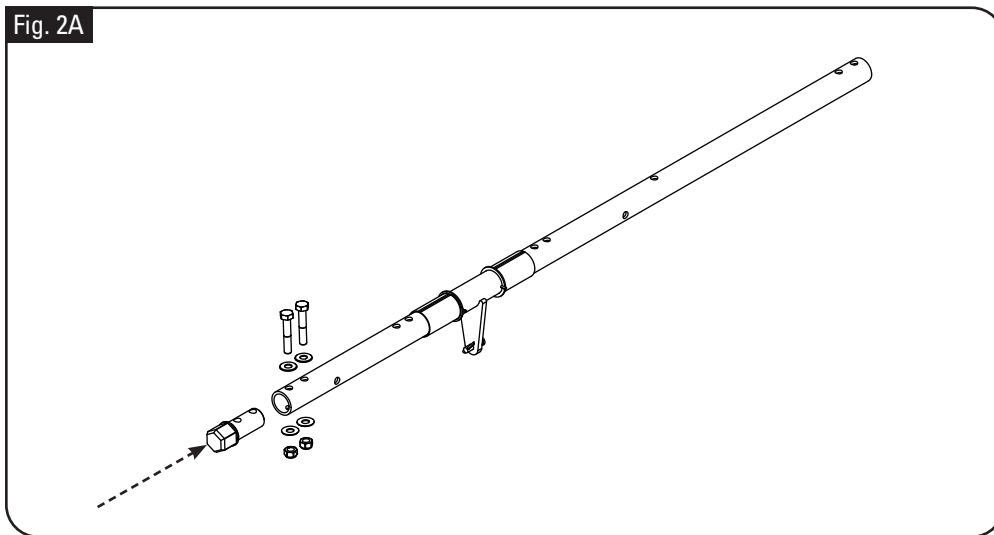
Step 1 (Van): Orient rear driveshaft according to vehicle requirements (Fig. 1A). Using M8 X 45 MM hex head bolt and hardware within hardware kit, install hex stud onto rear driveshaft end. Torque bolts to 90 in-lbs.

Fig. 1B



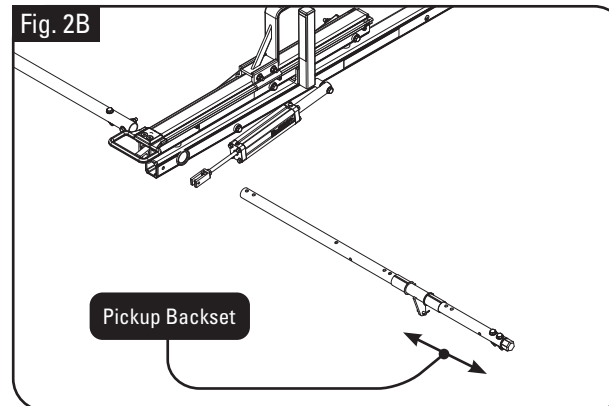
Van: Longer rear (Fig. 1B).

Fig. 2A



Step 2 (Pickup): Orient rear driveshaft according to vehicle requirements (Fig. 2A). Using M8 X 45 MM hex head bolt and hardware within hardware kit, install hex stud onto rear driveshaft end. Torque bolts to 90 in-lbs.

Fig. 2B

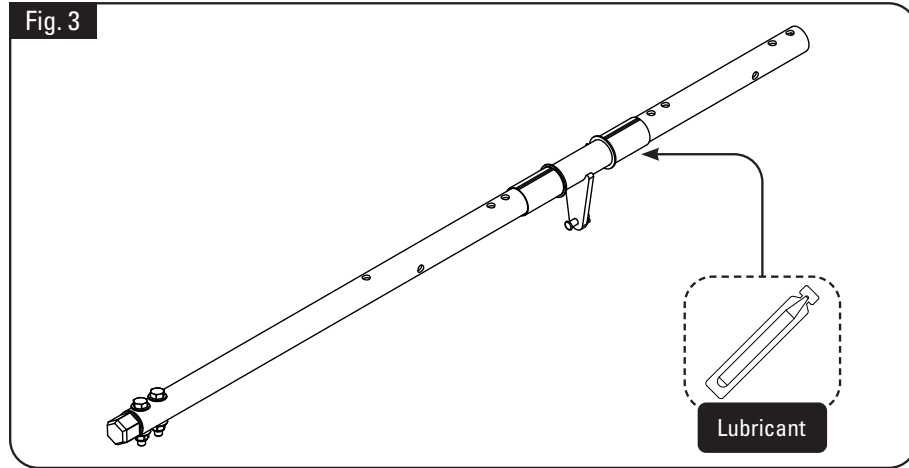


Pickup: Shorter rear (Fig. 2B).

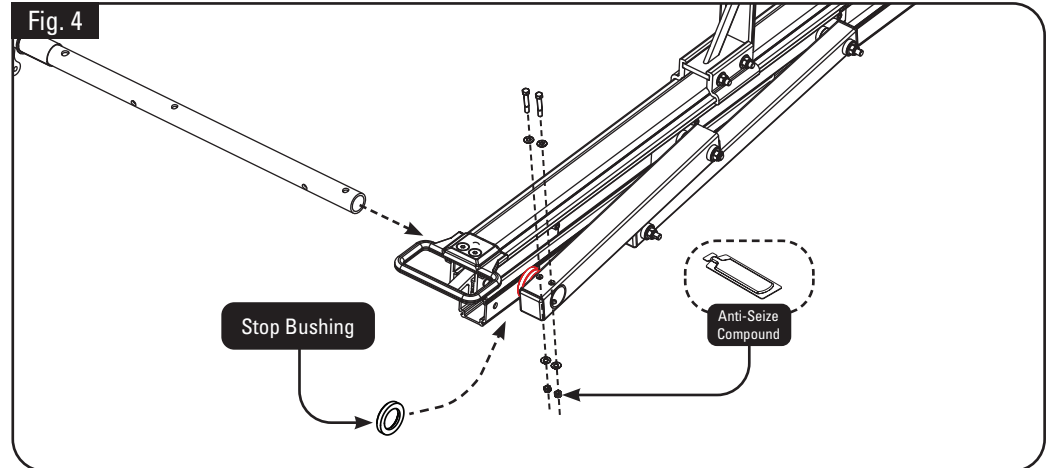


INSTALLATION INSTRUCTIONS

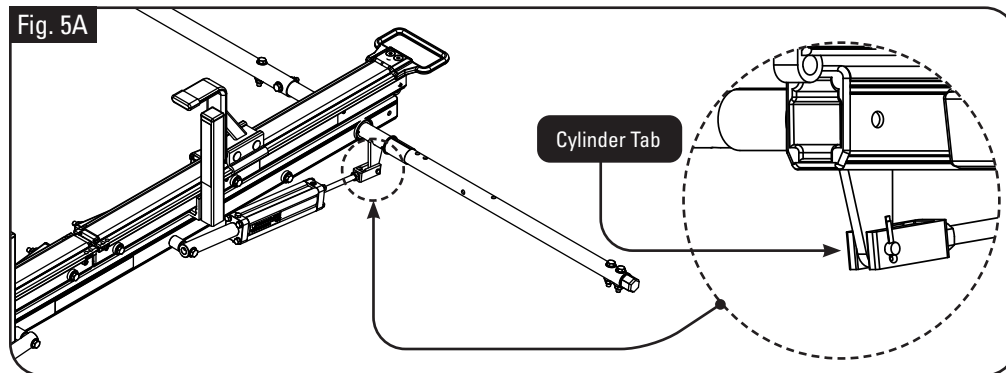
Rear Drive Shaft (Two Vehicle-Based Positions) - Continued



Step 3: Apply clear lubricant liberally to bushing (front only) as shown (Fig 3).

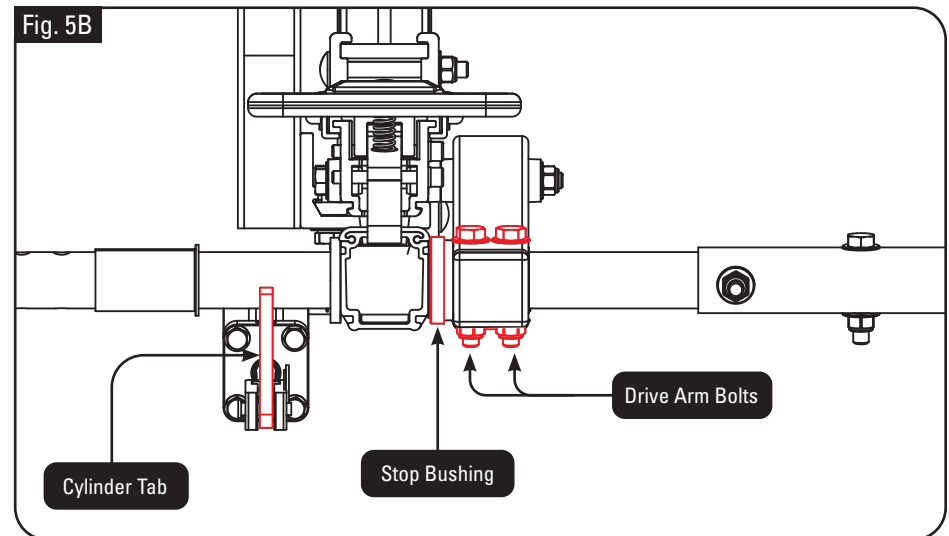


Step 4: Insert rear driveshaft into crossbar, stop bushing, and through drive arm (Fig. 4).
Note: Please use the Stop Bushing from FEA-0024/HKT-8423 Rotation Hardware Kit.



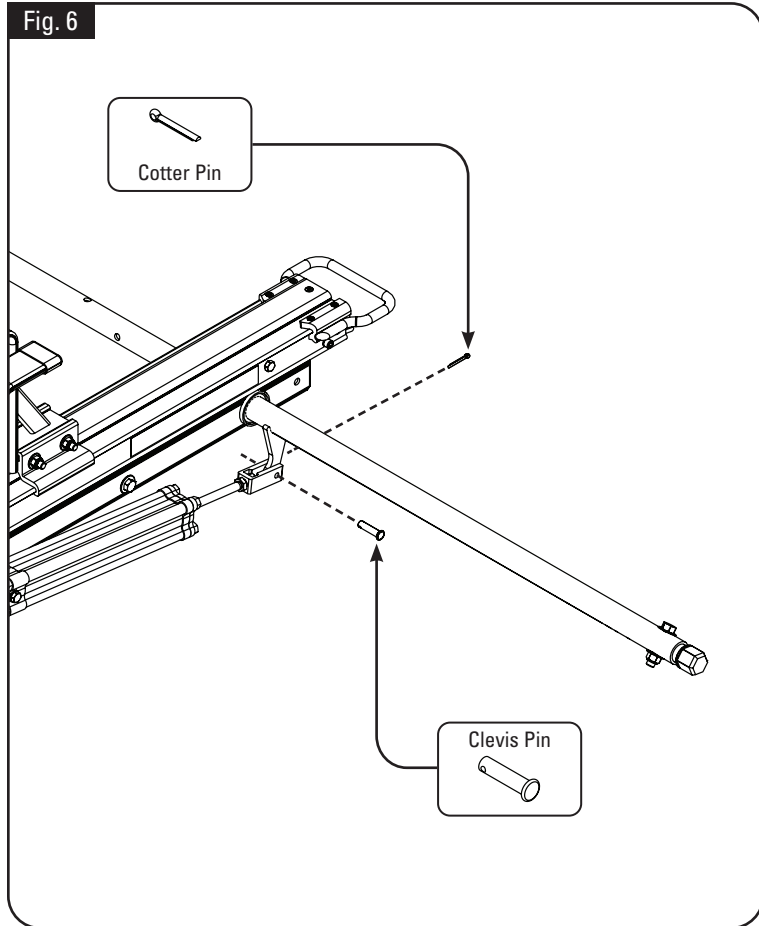
Step 5: Ensure cylinder tab on driveshaft points down and drive arm holes align with holes in driveshaft (Fig. 5A & B).

Apply anti-seize to (2) M8 X 55 MM hex head bolts and install with hardware as shown. Torque all bolts to 90 in-lbs.



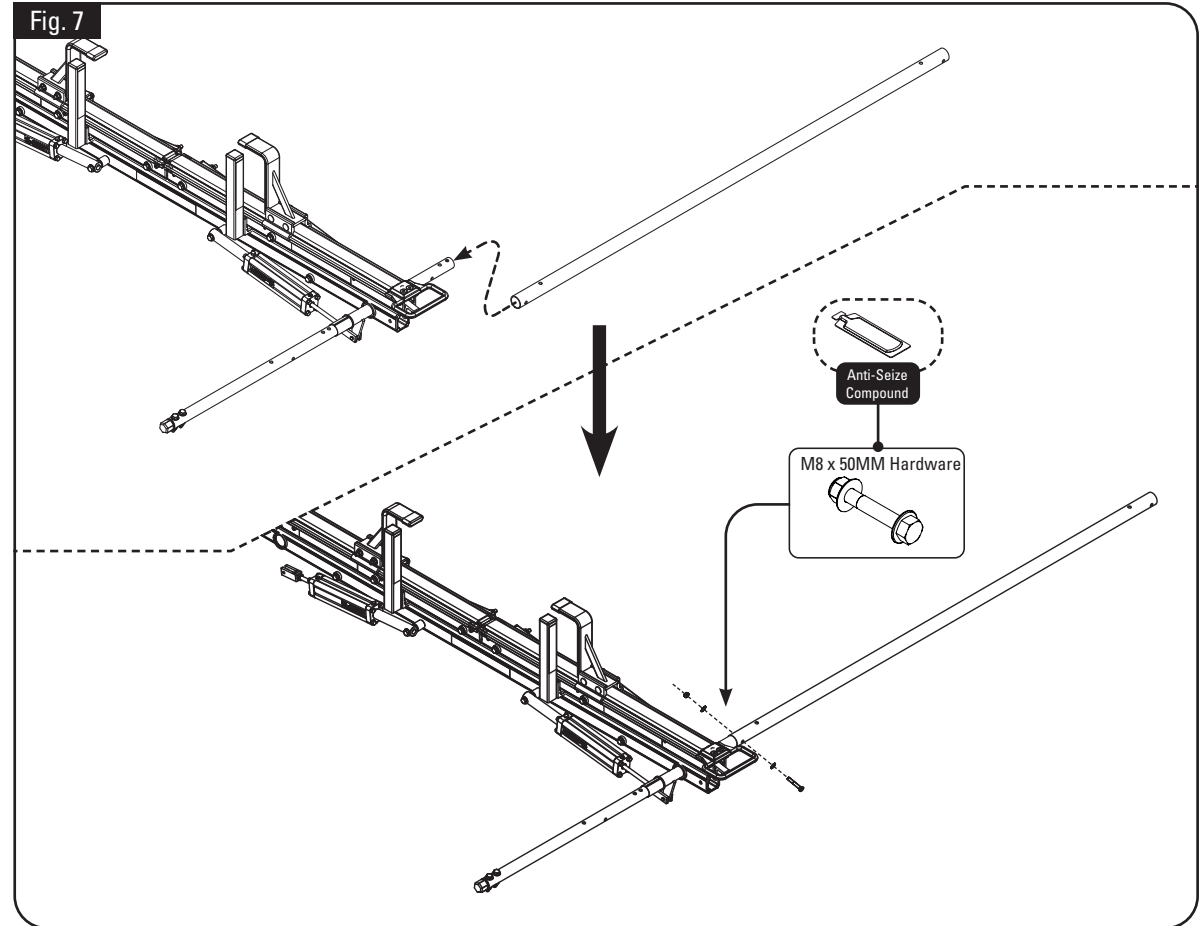


Cylinder Hardware & Connecting Bar



Step 6: Align cylinder clevis and driveshaft tab holes and insert clevis pin as shown.

Insert cotton pin into clevis pin and bend the end to keep clevis held in place (Fig. 6).



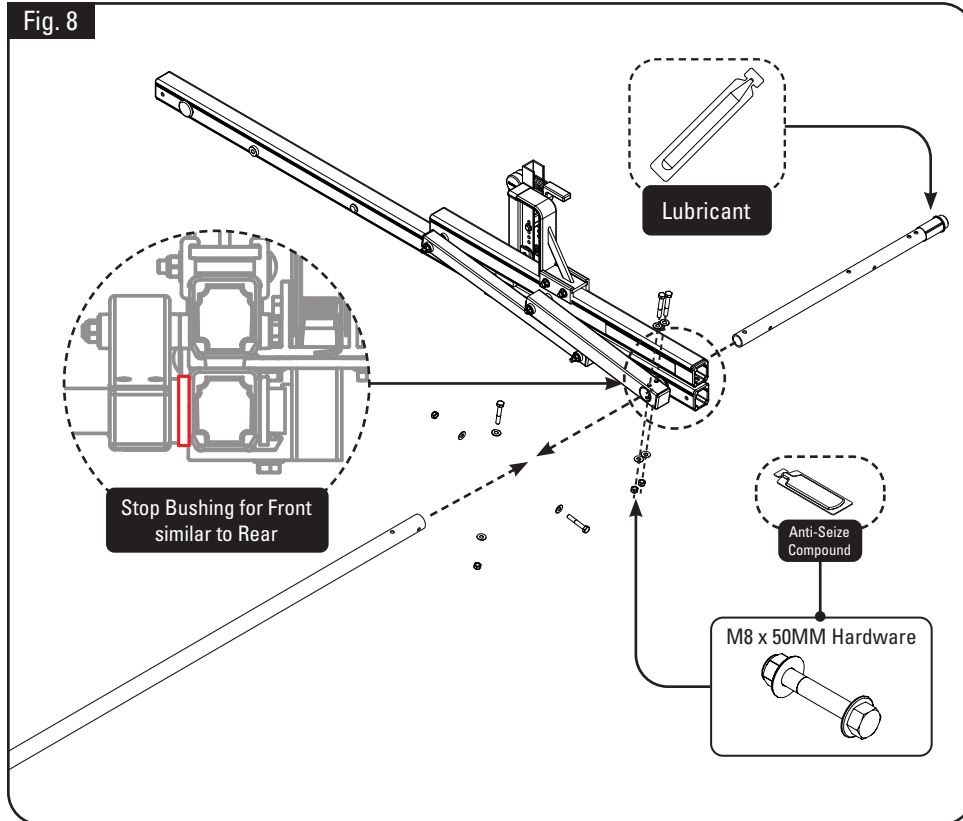
Step 7: Insert connecting bar onto rear driveshaft (Fig. 7).

Apply anti-seize to (2) M8 X 50MM hex head bolts and install with hardware as shown

3.3 Torque bolts to 90 in-lbs.



Front Drive Shaft

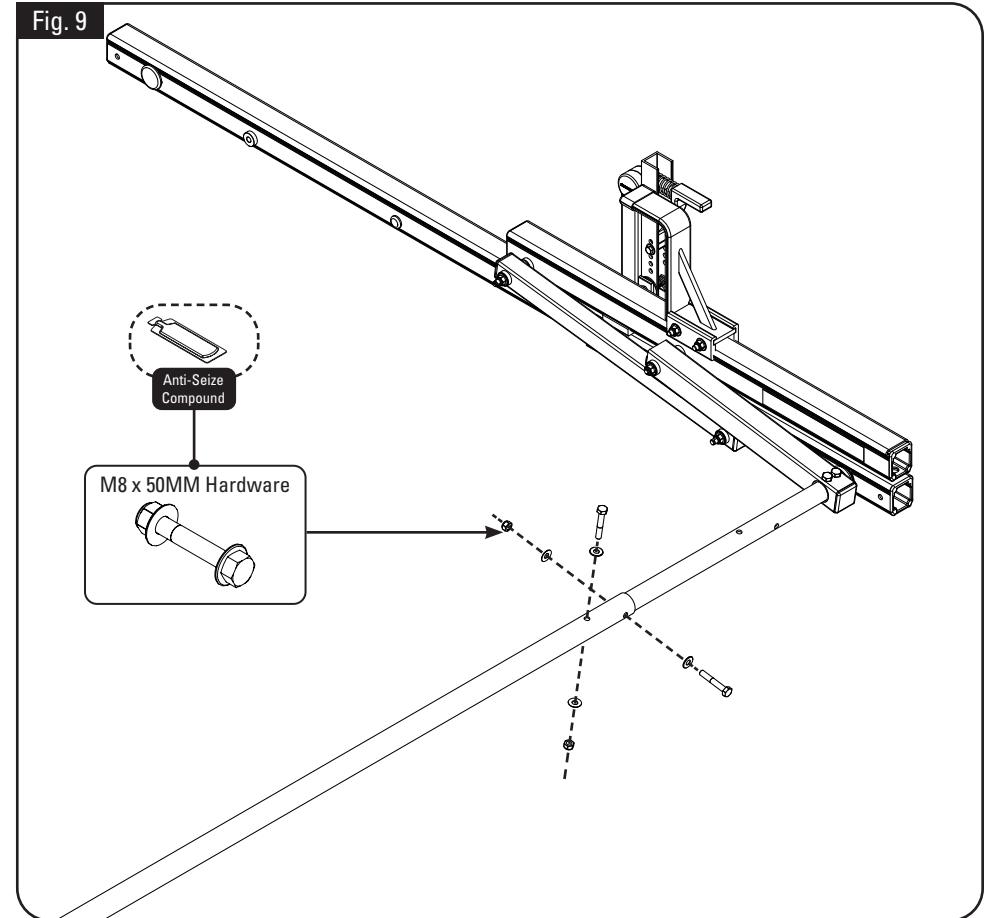


Step 8: Apply clear lubricant liberally to bushing.

Insert front driveshaft through front crossbar and rotation drive arm aligning two holes with bushing and middle connecting bar (Fig. 8).

Apply anti-seize to (2) M8 X 50MM hex head bolts and install with hardware as shown.

Torque all bolts to 90 in-lbs.



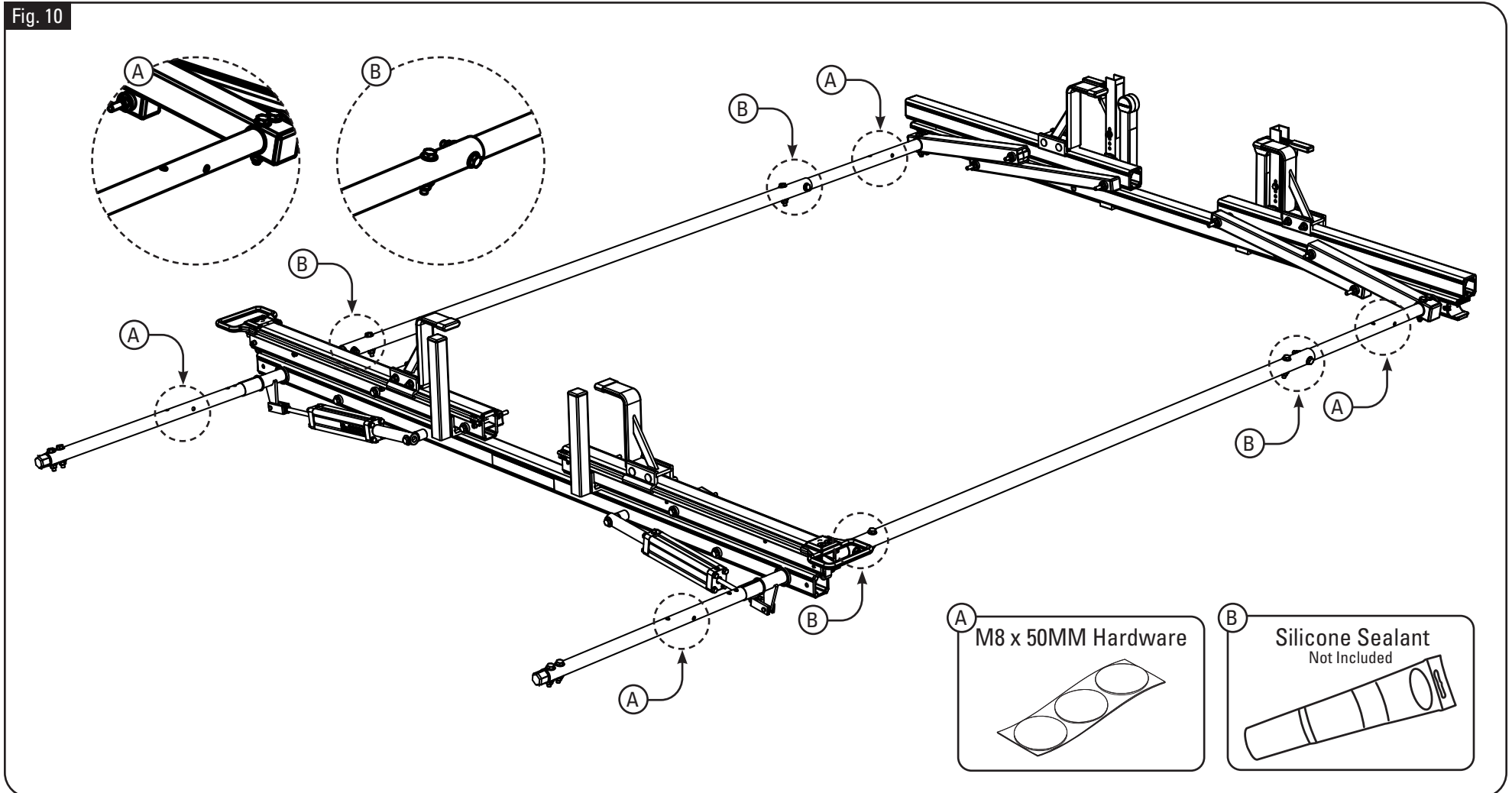
Step 9: Apply anti-seize to (2) M8 X 50MM hex head bolts and install with hardware (Fig. 9).

Torque all bolts to 90 in-lbs.



Drive Shaft Sealing

Fig. 10



Step 10: Apply silicone sealant (not provided) to connecting bar ends. Using provided sealing stickers, apply to any remaining holes on driveshaft (Fig. 10).