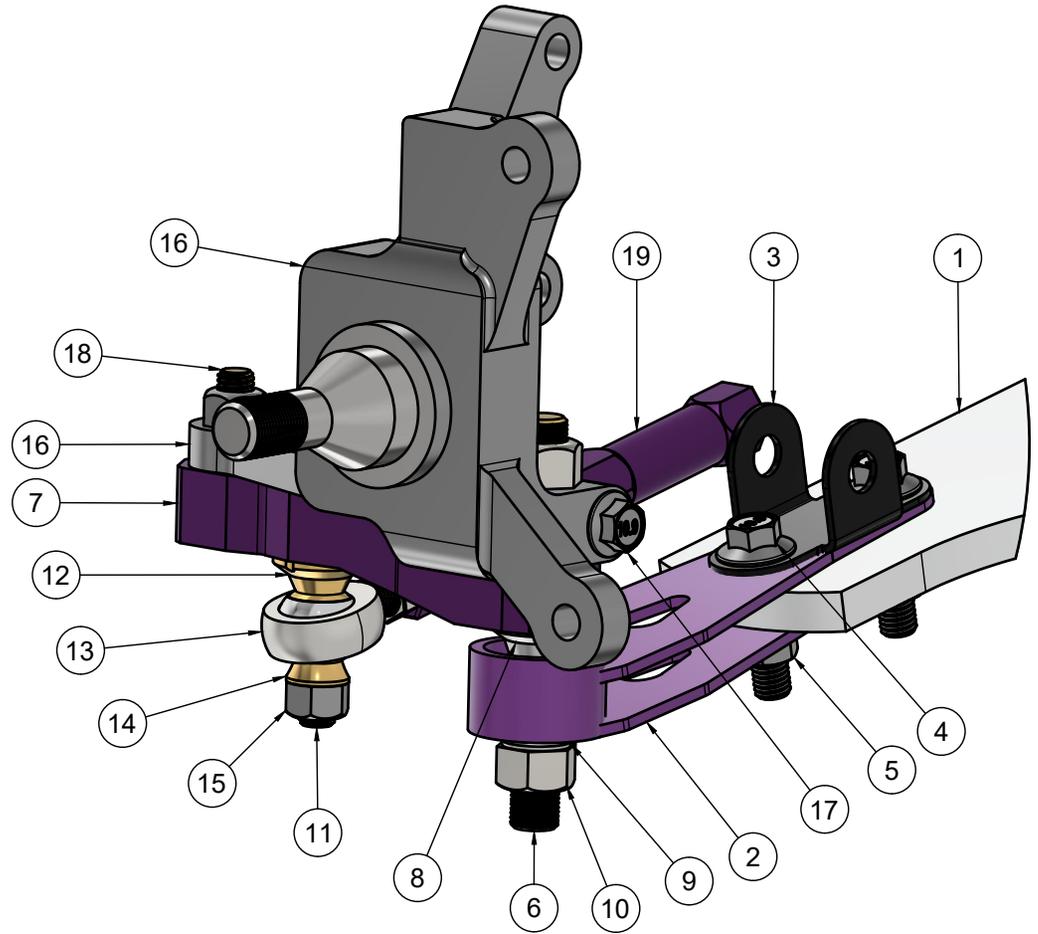


PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	MAZDA OEM	FC3S LEFT FRONT CONTROL ARM (86-88)
2	1	B.30.101	FC3S UNIVERSAL LOWER BALL JOINT EXTENSION (WELDED)
3	1	MAZDA OEM	FC3S FRONT SWAY BAR BRACKET
4	2	MAZDA OEM	LOWER BALL JOINT BOLT
5	2	MAZDA OEM	LOWER BALL JOINT NUT
6	1	A.20.039	FC3S OUTER BALL JOINT STUD
7	1	A.21.046	FC3S LEFT STEERING PLATE PURPLE ANODIZE
8	1	---	UPPER 16MM CONE
9	1	---	LOWER 16MM CONE
10	2	A.00.015	M16 X 1.50 STOVER NUT
11	1	---	M12 X 1.75 X 70MM BOLT
12	1	A.21.001	ACKERMAN CONE
13	1	A.20.028	JML10T 5/8 ROD END (LH)
14	1	---	LOWER 12MM CONE
15	2	---	M12 X 1.75 STOVER NUT
16	1	MAZDA OEM	FC3S LEFT FRONT UPRIGHT
17	1	MAZDA OEM	BALL JOINT PINCH BOLT
18	1	A.00.035	M12 X 1.75 X 50MM BOLT
19	1	---	M14 TO 5/8-18 TIE ROD EXTENSION



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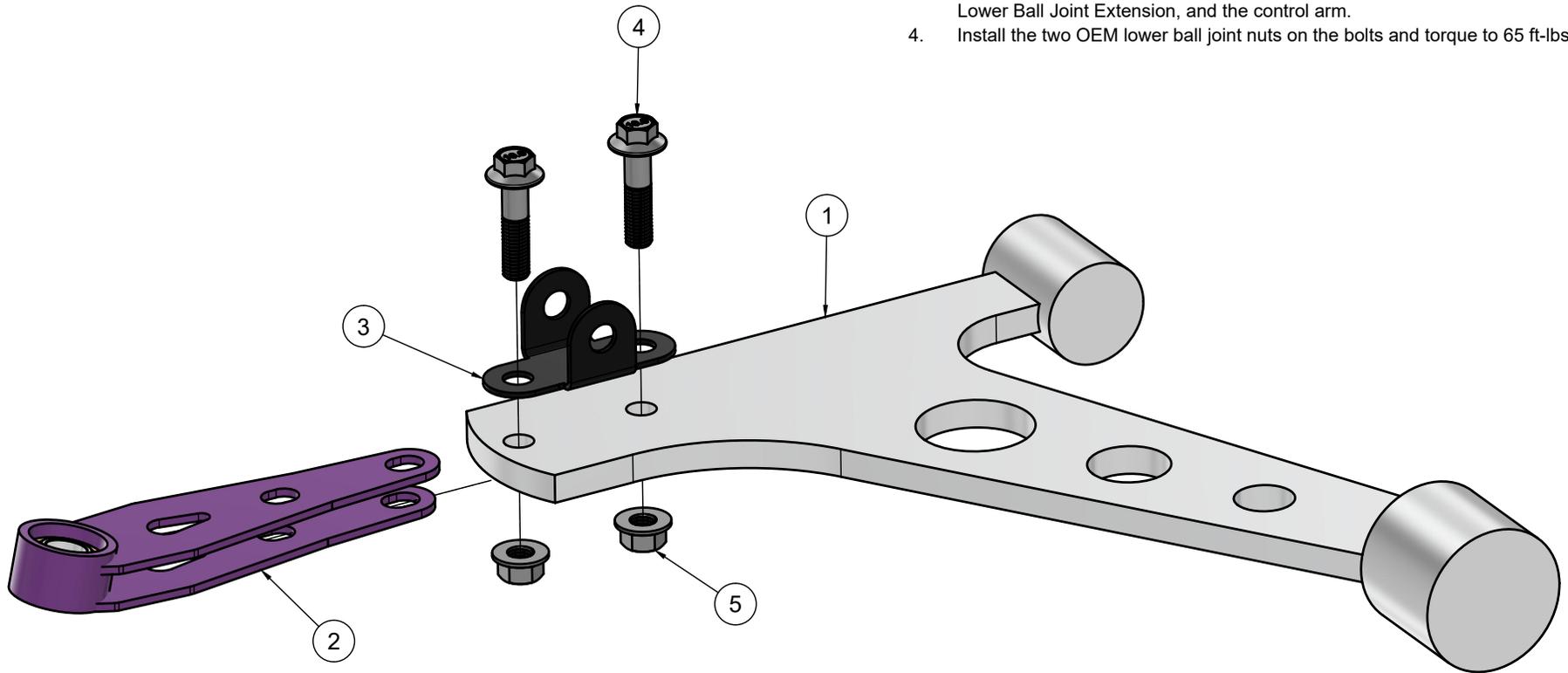
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	MAZDA OEM	FC3S LEFT FRONT CONTROL ARM (86-88)
2	1	B.30.101	FC3S UNIVERSAL LOWER BALL JOINT EXTENSION (WELDED)
3	1	MAZDA OEM	FC3S FRONT SWAY BAR BRACKET
4	2	MAZDA OEM	LOWER BALL JOINT BOLT
5	2	MAZDA OEM	LOWER BALL JOINT NUT

Step 1:

(Drivers side shown)

NOTE: The SLR FC3S RX7 Mini Kit requires the use of S4 (86-88) front lower control arms where the lower ball joint is held on by two bolts. This kit is not designed to be used on any other year control arms and cannot be modified to fit any other year of control arm.

1. Remove the lower ball joint and sway bar bracket from the lower control arm by removing the two bolts..
2. Slide the SLR Lower Ball Joint Extension over the end of the control arm and align the two holes with the ball joint holes on the lower control arm.
3. Install the two OEM ball joint bolts through the OEM sway bar bracket, the SLR Lower Ball Joint Extension, and the control arm.
4. Install the two OEM lower ball joint nuts on the bolts and torque to 65 ft-lbs.



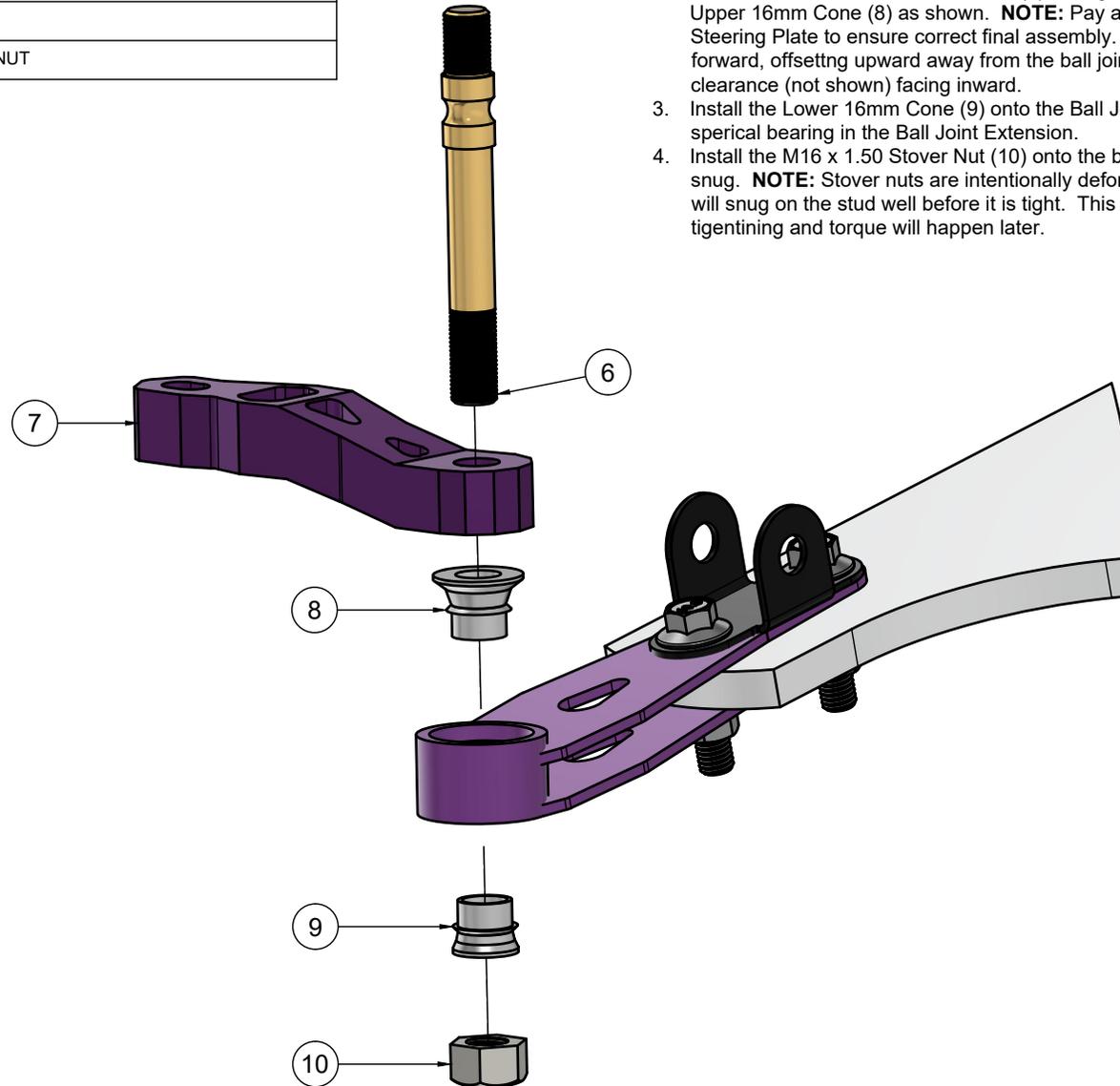
Part #	FC3S RX7 Mini Kit			Page #
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PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
6	1	A.20.039	FC3S OUTER BALL JOINT STUD
7	1	A.21.046	FC3S LEFT STEERING PLATE PURPLE ANODIZE
8	1	---	UPPER 16MM CONE
9	1	---	LOWER 16MM CONE
10	1	A.00.015	M16 X 1.50 STOVER NUT

Step 2:

1. Install the Upper 16mm Cone (8) into the top side of the spherical bearing of the Ball Joint Extension as shown.
2. Install the SLR Outer Ball Joint Stud (6) through the SLR Steering Plate (7) and Upper 16mm Cone (8) as shown. **NOTE:** Pay attention to the orientation of the Steering Plate to ensure correct final assembly. The Steering Plate should point forward, offsetting upward away from the ball joint, and with the bevel for clearance (not shown) facing inward.
3. Install the Lower 16mm Cone (9) onto the Ball Joint Stud (6) and up into the spherical bearing in the Ball Joint Extension.
4. Install the M16 x 1.50 Stover Nut (10) onto the bottom of the stud and thread until snug. **NOTE:** Stover nuts are intentionally deformed to resist loosening. The nut will snug on the stud well before it is tight. This is fine for now as the final tightening and torque will happen later.



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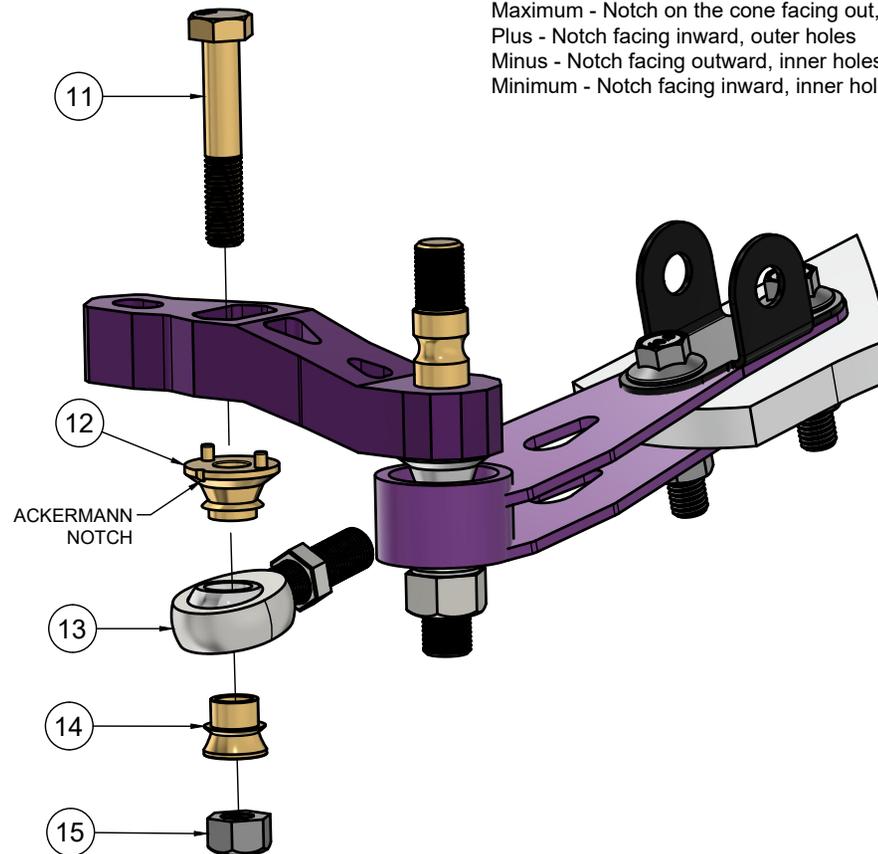
ITEM	QTY	PART NUMBER	DESCRIPTION
11	1	---	M12 X 1.75 X 70MM BOLT
12	1	A.21.001	ACKERMAN CONE
13	1	A.20.028	JML10T 5/8 ROD END (LH)
14	1	---	LOWER 12MM CONE
15	1	---	M12 X 1.75 STOVER NUT

Step 3:

1. Install the M12x1.75 x 70mm Bolt (11) down into the Steering Plate
2. Install the SLR Ackermann Cone (12) into the Steering Plate with the pins facing up in ackermann position of your choice - See note below on ackermann settings.
3. Install the 5/8 LH Rod End (13), Lower 12mm Cone (12), and M12x1.75 Stover Nut onto the Bolt (11) and Torque to 65 ft-lbs.

Ackermann Settings: Increasing ackermann allows the inner wheel to steer more than the outer wheel resulting in less front axle scrub in tighter corners. The SLR Mini Kit has four ackermann settings that can be chosen. The Ackerman Cone has two offset pins and a notch to indicate the direction of install and the Steering Plate has two sets of holes for the pins to align in - **DO NOT** attempt to seat the pins crossed between the two sets of holes on the Steering Plate - use only either the inner pair or the outer pair.

Maximum - Notch on the cone facing out, and pins into the outer holes of the Steering Plate
 Plus - Notch facing inward, outer holes
 Minus - Notch facing outward, inner holes
 Minimum - Notch facing inward, inner holes.



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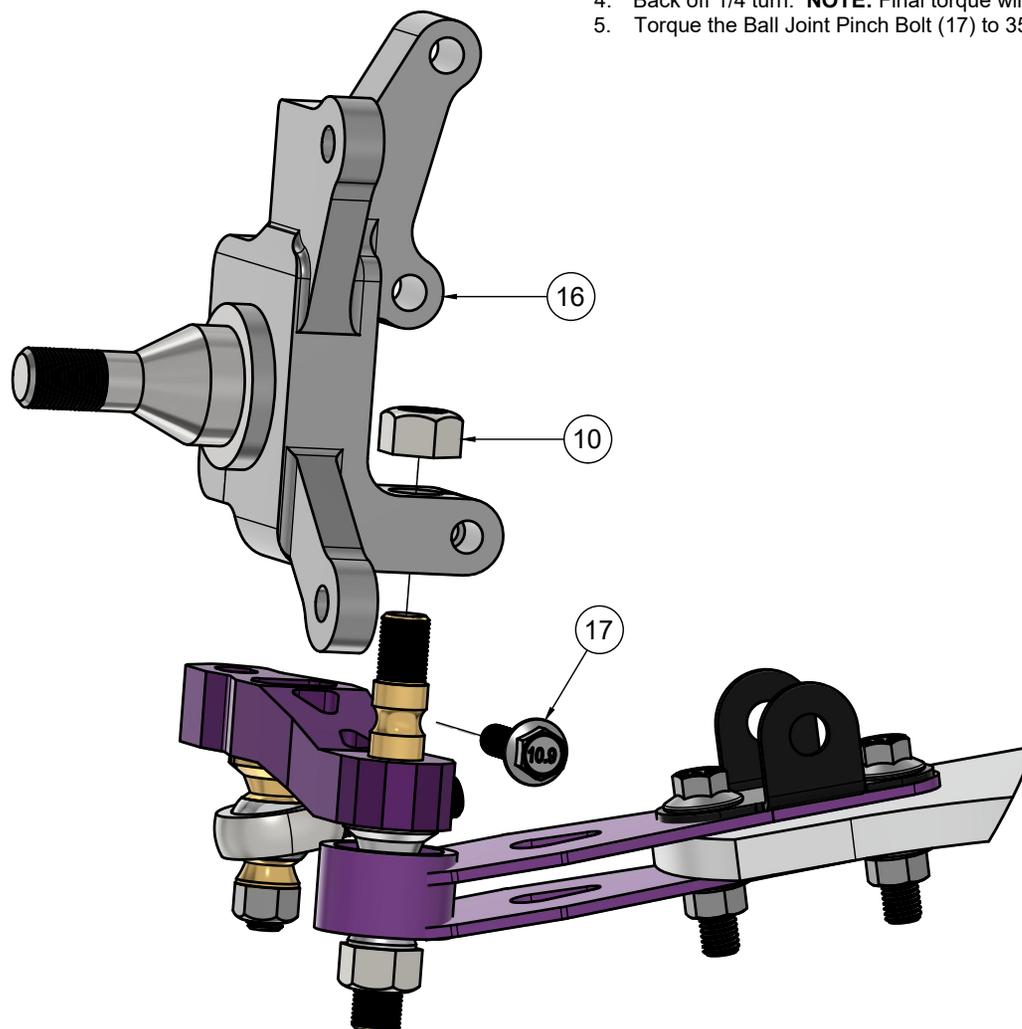
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PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
10	1	A.00.015	M16 X 1.50 STOVER NUT
16	1	MAZDA OEM	FC3S LEFT FRONT UPRIGHT
17	1	MAZDA OEM	BALL JOINT PINCH BOLT

Step 4:

1. Install the OEM Upright (16) onto the SLR Ball Joint Stud and install the OEM Ball Joint Pinch Bolt (17) to snug - Do Not torque yet.
2. Install the M16x1.50 Stover Nut (10) as shown until the threads snug.
3. Hold one of the M16x1.50 stover nuts and tighten the other until it bottoms out, once bottomed, switch to the other M16x1.50 stover nut until it is also bottomed.
4. Back off 1/4 turn. **NOTE:** Final torque will be applied in the next step.
5. Torque the Ball Joint Pinch Bolt (17) to 35 ft-lbs



Part #	FC3S RX7 Mini Kit		
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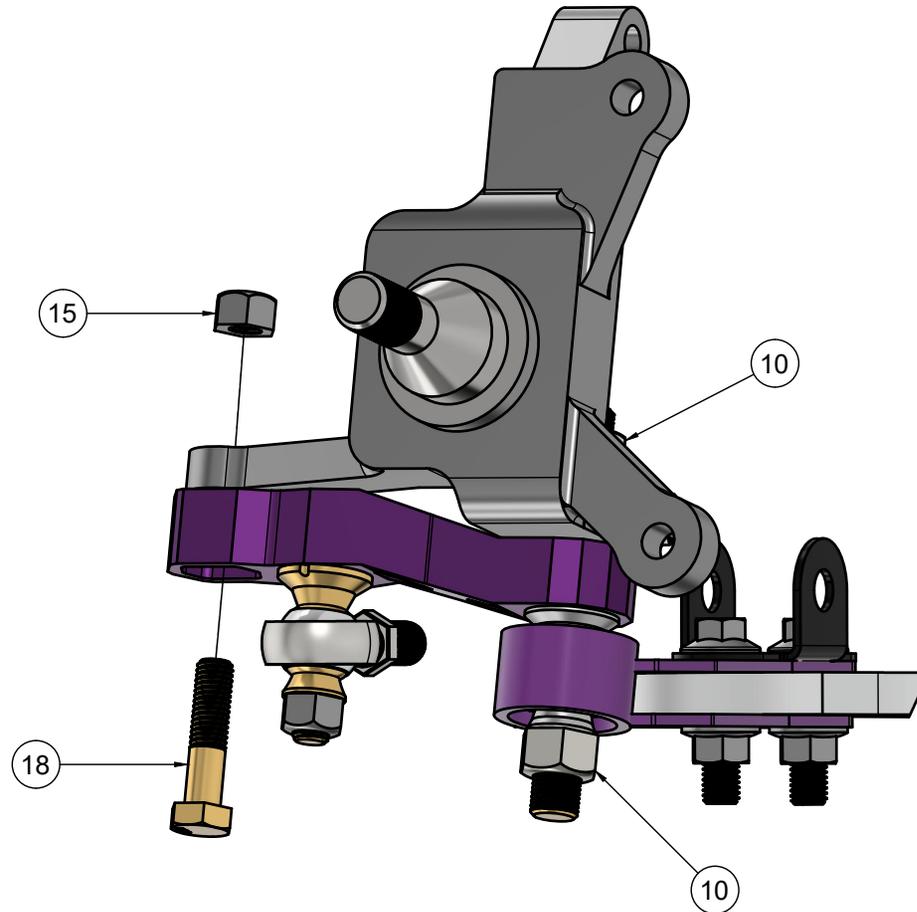
PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
15	1	---	M12 X 1.75 STOVER NUT
18	1	A.00.035	M12 X 1.75 X 50MM BOLT

Step 5:

1. Install the M12x1.75 x 50mm (18) up through the steering Plate and OEM Steering Knuckle.
2. Install the M12x1.75 Stover Nut (15) and Torque to 65 ft-lbs.
3. Torque both M16x1.50 Stover Nuts (10) to 80 ft-lbs.

WARNING: Make sure that **BOTH** M16x1.50 Stover Nuts are torqued to 80 ft-lbs. Improper torque can result in an unsafe condition due to the suspension loosening.



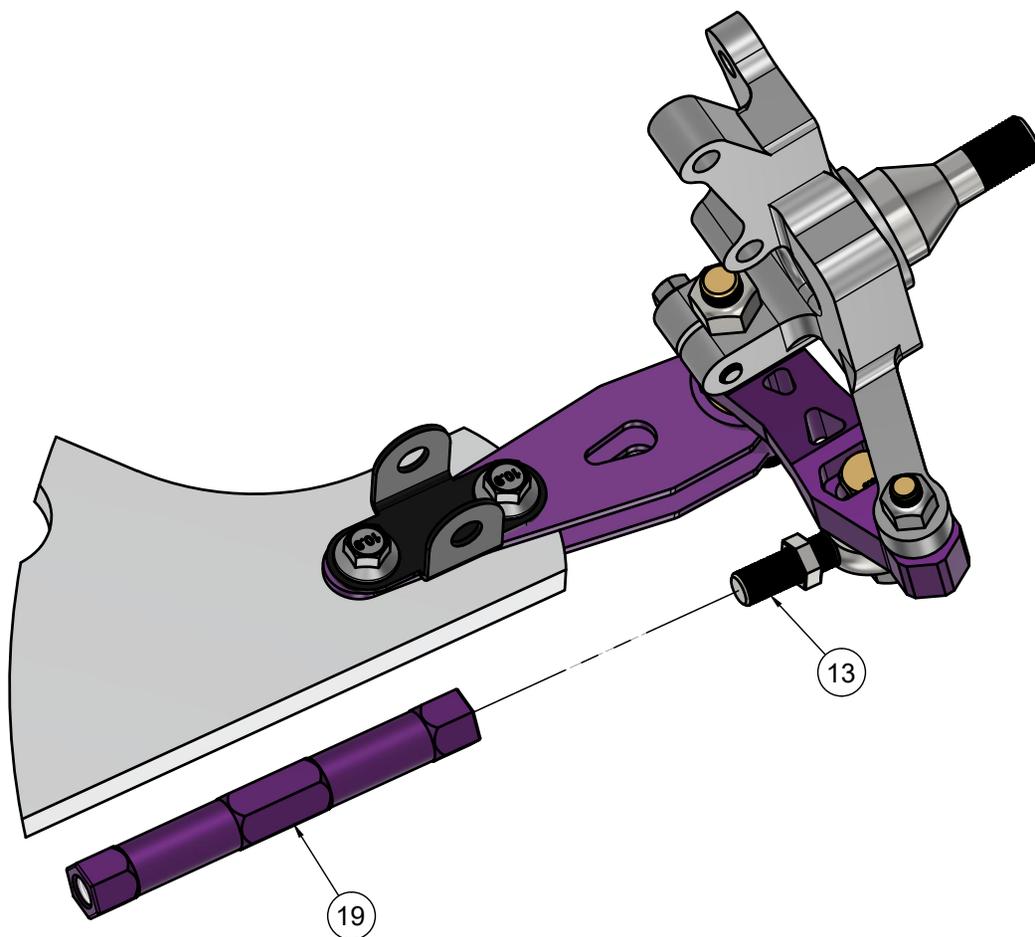
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PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
19	1	---	M14 TO 5/8-18 TIE ROD EXTENSION

Step 6:

1. Install M14 to 5/8-18 Tie Rod Extension (19) onto the 5/8-18 Outer Tie Rod (13) and the OEM inner tie rod at the same time.
2. Start by threading on the outer end by **ONE** turn then align the inner tie rod and turn the tie rod extension so that it engages the inner. Continue to turn the Tie Rod Extension (19) and ensure that it is threading onto both inner and outer tie rods.
3. Tighten the jam nuts on the inner and outer tie rods.



Part #	FC3S RX7 Mini Kit		
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