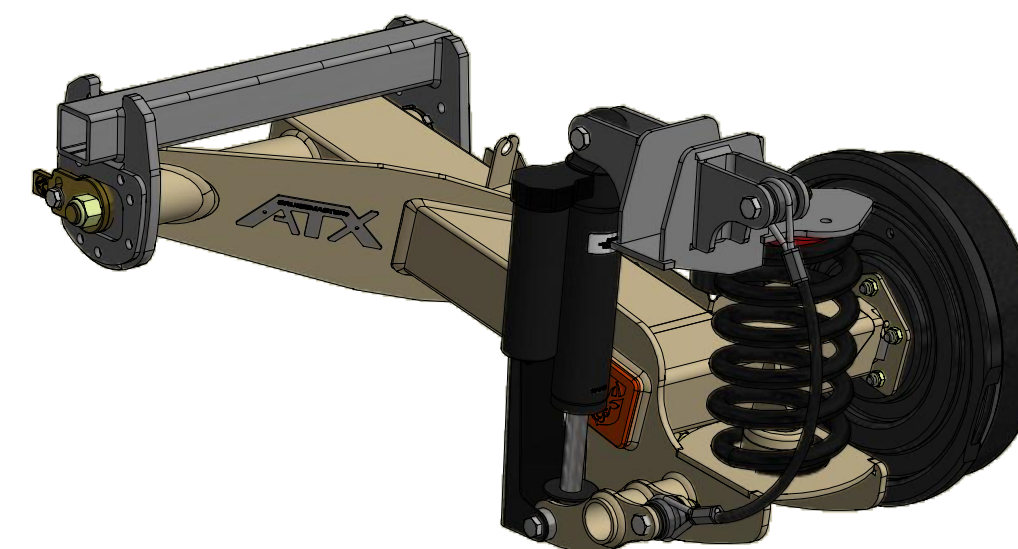
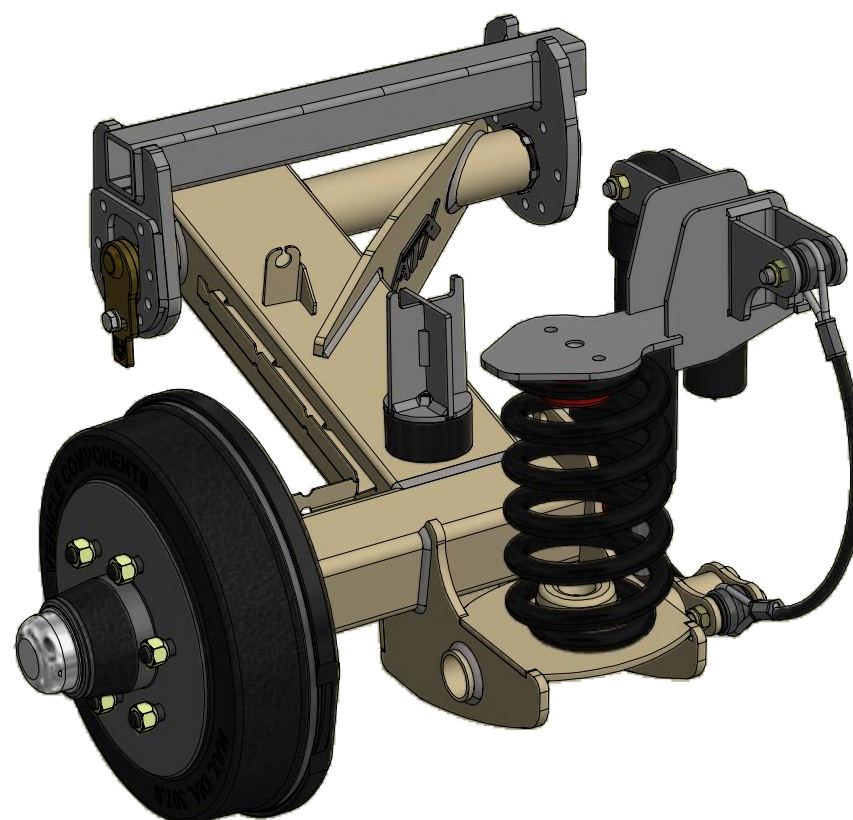




CHASSIS PREPARATION AND SUSPENSION INSTALLATION GUIDE

- 2. CHASSIS TO FACE
- 3. GENERAL LAYOUT
- 4. WELDING
- 5. ASSEMBLY
- 6. ALIGNMENT
- 7. PARTS LIST
- 8. KIT CONFIGURATIONS



REV	DESCRIPTION	ECN	NAME	DATE
10	Added full length hinge welding spec, clarified C-F measurement	1775	AB	24/10/2019
9	33S-707 was 33S-8019	1766	AB	7/08/2019
8	Fixed welding representation	-	AB	21/06/2019

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CM ATX INSTALLATION GUIDE

TITLE

33ATX

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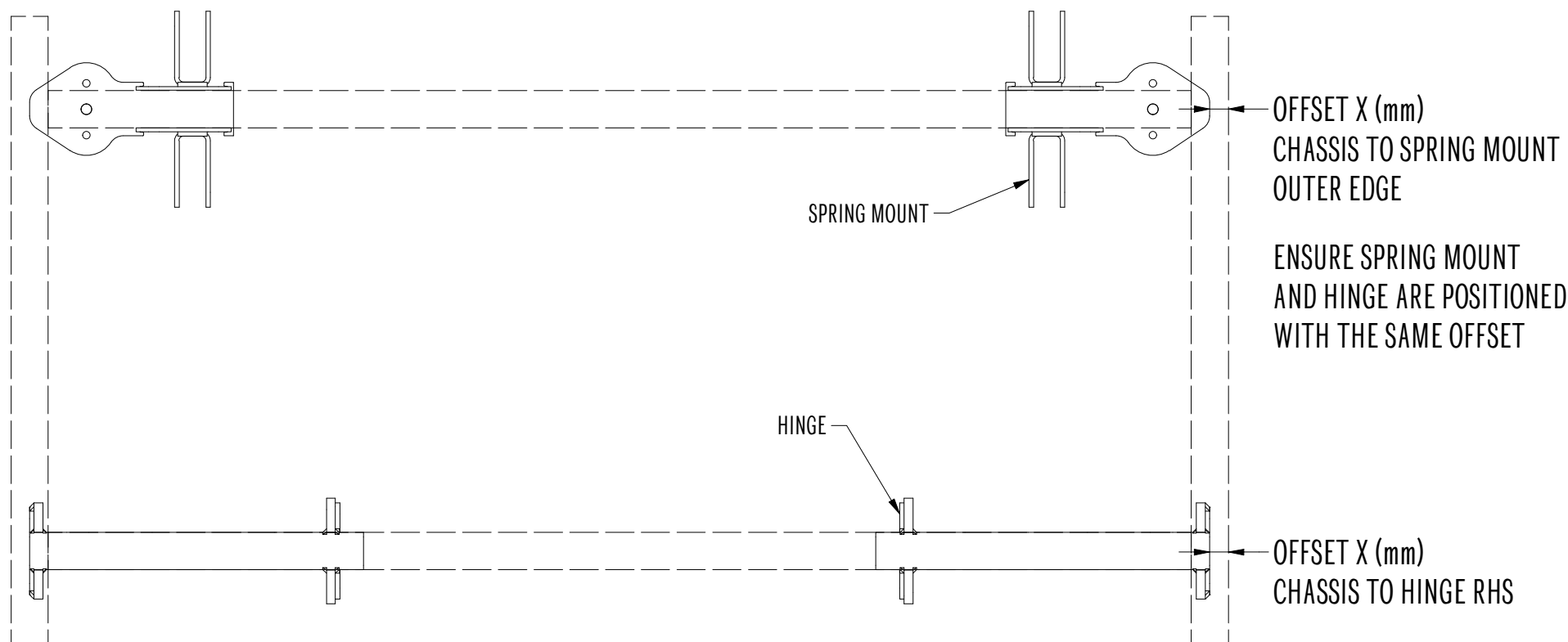


2 - CHASSIS TO FACE

NOTES

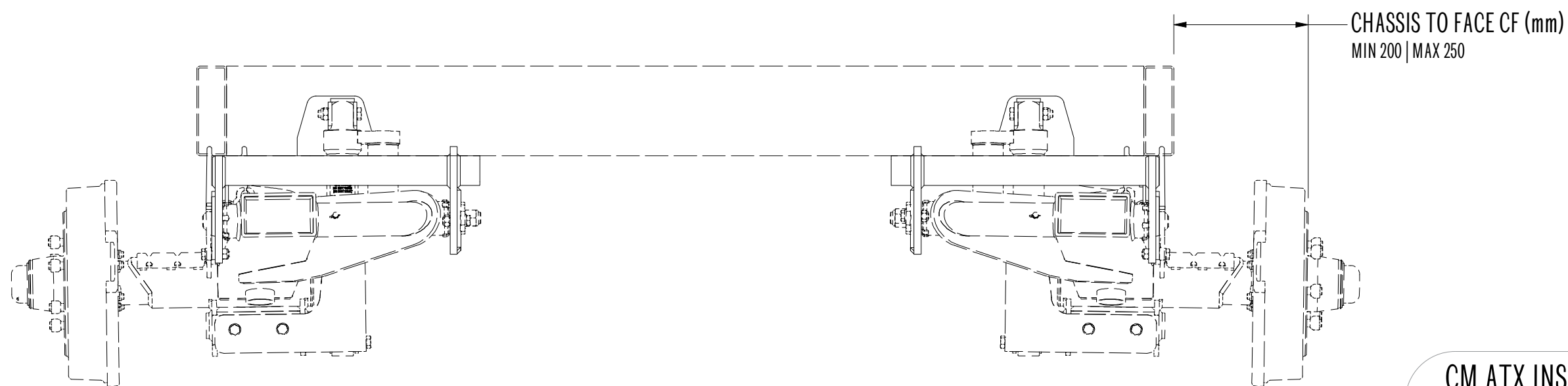
2.1 FOR A CHASSIS TO FACE CF SMALLER THAN 250mm THE SPRING MOUNT AND HINGE NEED TO BE OFFSET X (mm) FROM THE OUTSIDE OF THE CHASSIS

2.2 USE THE TABLE BELOW TO CALCULATE THE OFFSET X (mm) BASED ON CHASSIS TO FACE CF REQUIRED



WELD ON POSITION FROM OUTER CHASSIS WALL (mm)

CF	X (ELECTRIC) = 250 - CF	X (DISC) = 250 - CF
250 MAX C/F	0	7
225	25	32
200 MIN C/F	50	57



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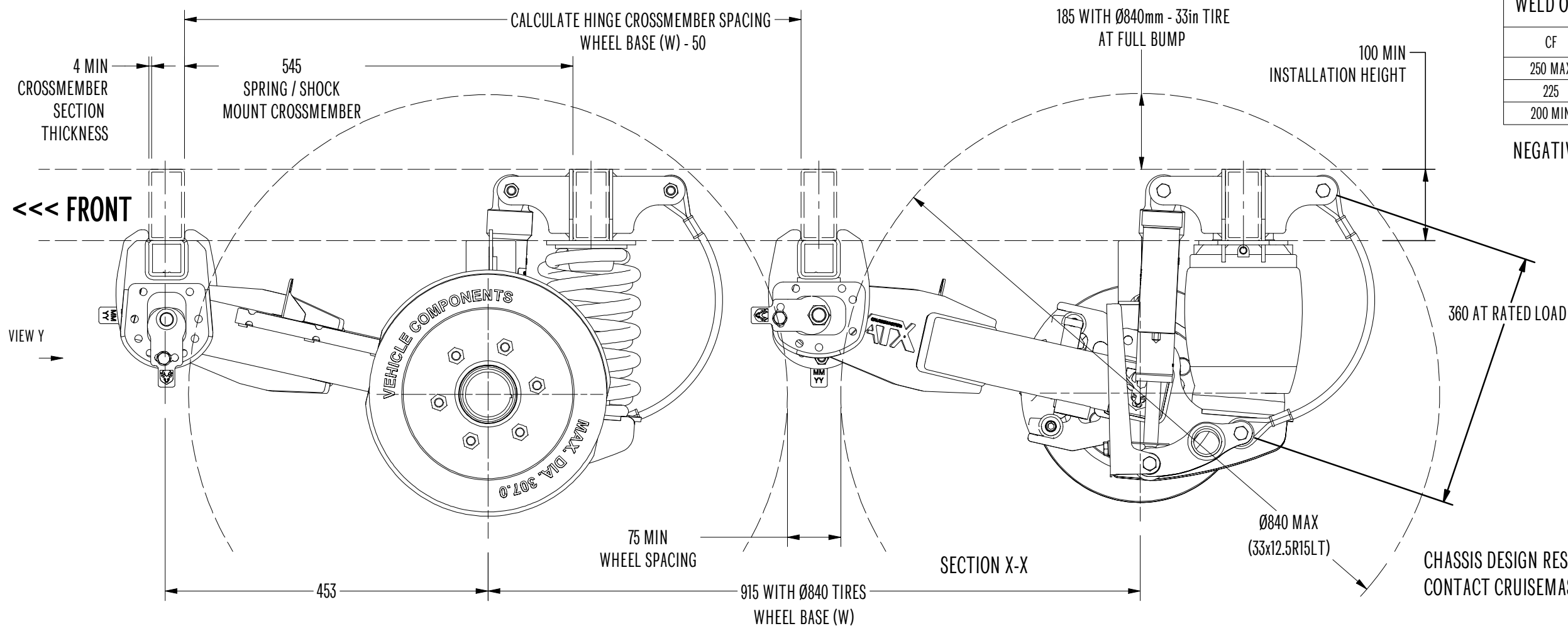
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3 - GENERAL LAYOUT



WELD ON POSITION FROM OUTER CHASSIS WALL (mm)

CF	X (ELECTRIC) = 250 - CF	X (DISC) = 250 - CF
250 MAX	0	7
225	25	32
200 MIN	50	57

NEGATIVE WHEEL OFFSET NOT ALLOWED

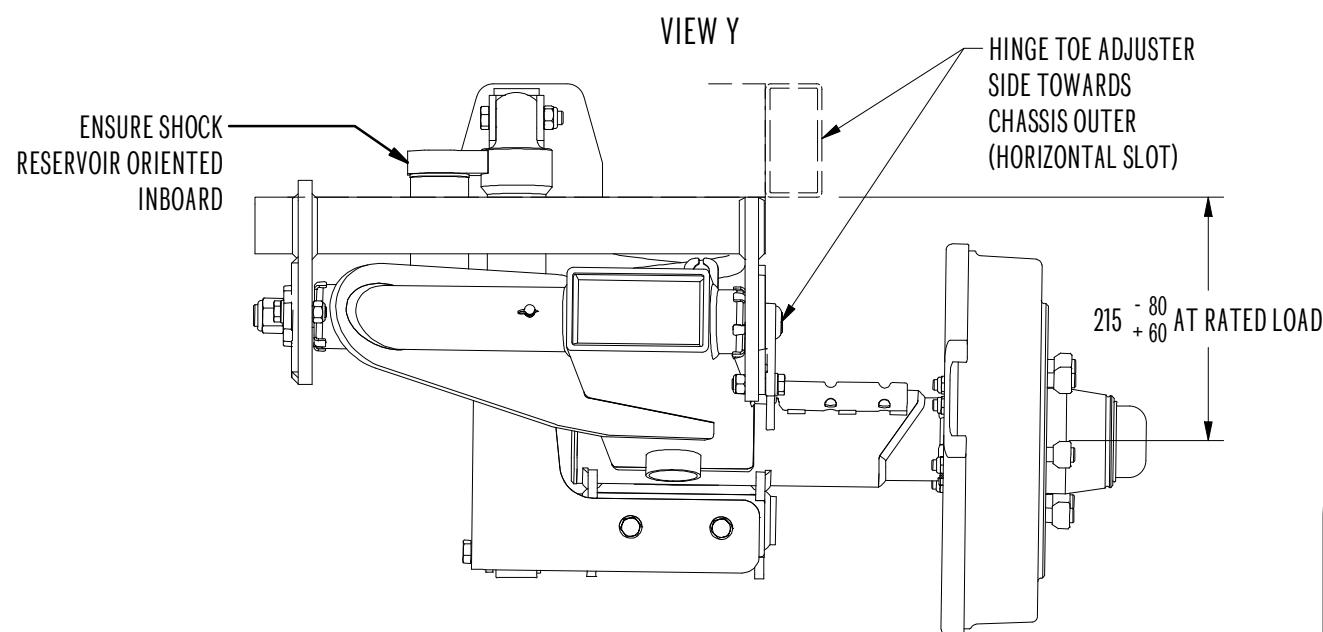
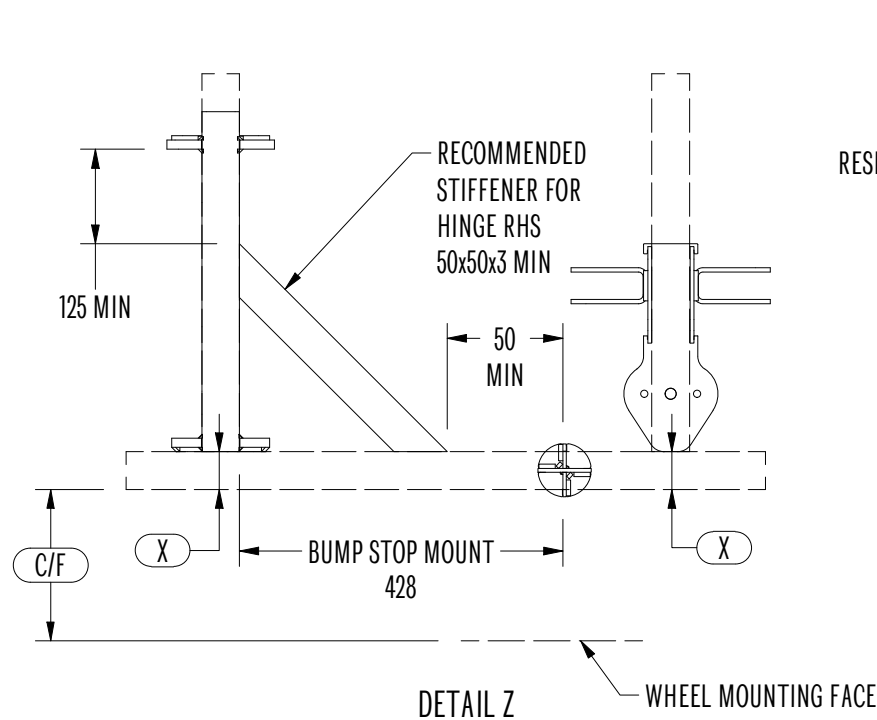
CHASSIS DESIGN RESPONSIBILITY LIES WITH MANUFACTURER. CONTACT CRUISEMASTER ENGINEERING FOR DESIGN ADVICE

NOTE FOR TANDEM AXLES

THIS IS A CLOSE COUPLED, NON-LOAD SHARING SUSPENSION. ENSURE THAT THE LOAD ON THE AXLE GROUP DOES NOT EXCEED THE REQUIREMENTS OF THE NATIONAL CODE OF PRACTICE (VSB 1 - BUILDING SMALL TRAILERS)

LUBRICATION

GREASE BORE AND FLANGE OF POLYURETHANE BUSHES DURING INSTALLATION AND REGULARLY DURING SERVICE USING AUTOMOTIVE BEARING GREASE. INJECT THROUGH GREASE NIPPLE UNTIL GREASE STARTS COMING OUT BETWEEN HINGE AND BUSH.



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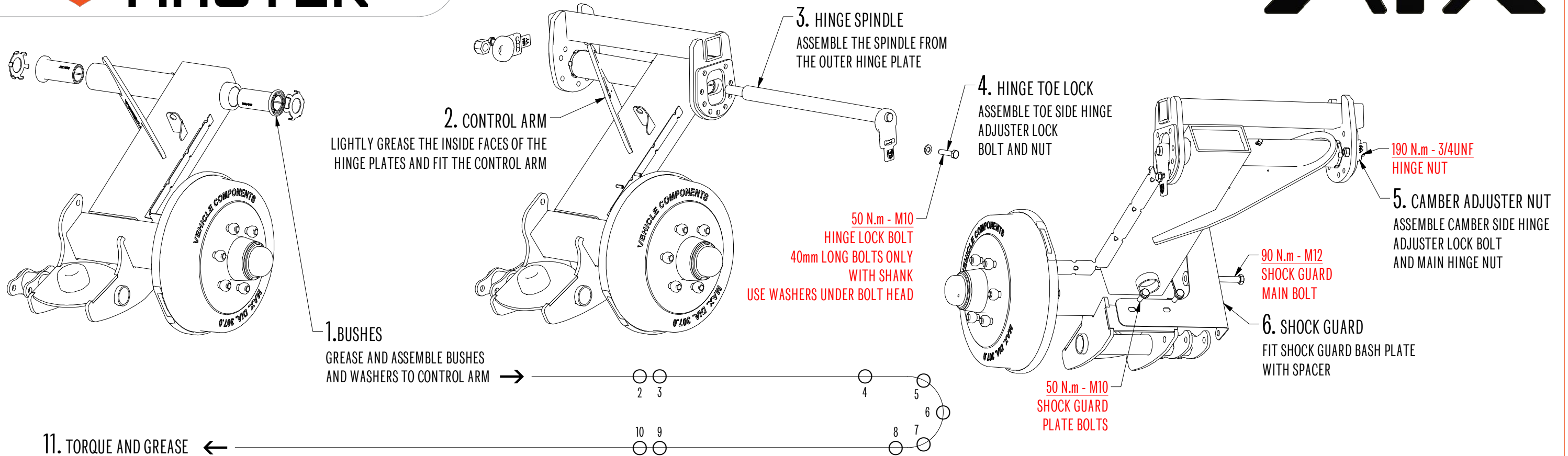
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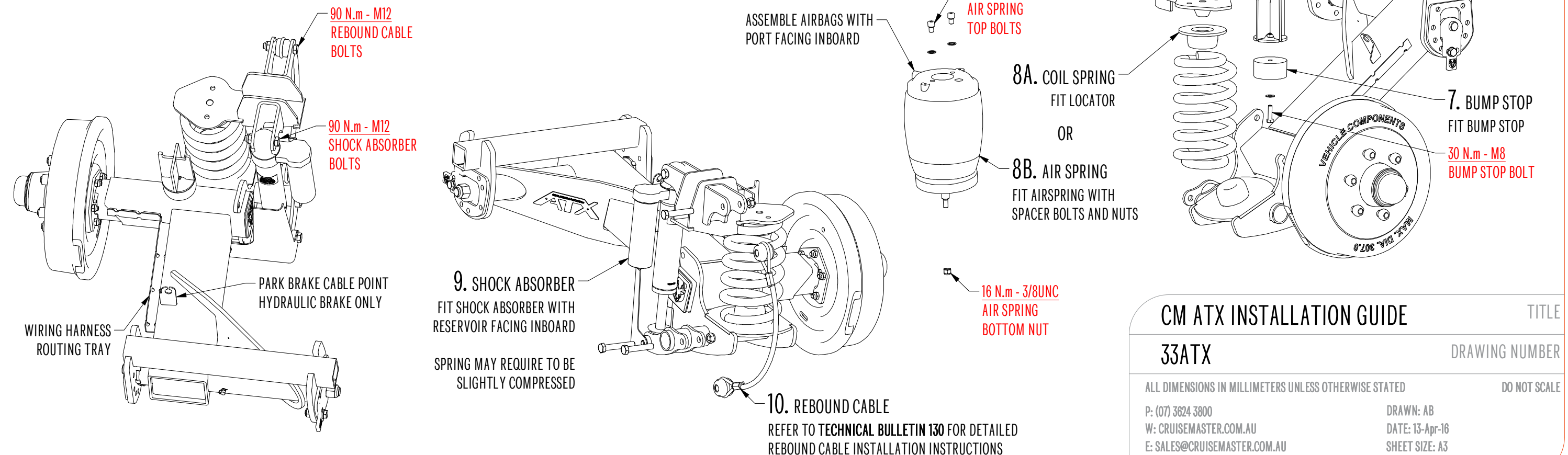


5 - ASSEMBLY



11. TORQUE AND GREASE

- REFER TO WHEEL ALIGNMENT FOR ADJUSTER POSITIONING
- ONCE HINGE IS ASSEMBLED TORQUE ALL BOLTS AS SPECIFIED
- USE GREASE NIPPLE TO FILL HINGE CAVITY (GREASE SHOULD SQUEEZE FROM BUSHES)
- USE PROVIDED CABLE TRAY TO ROUTE WIRING



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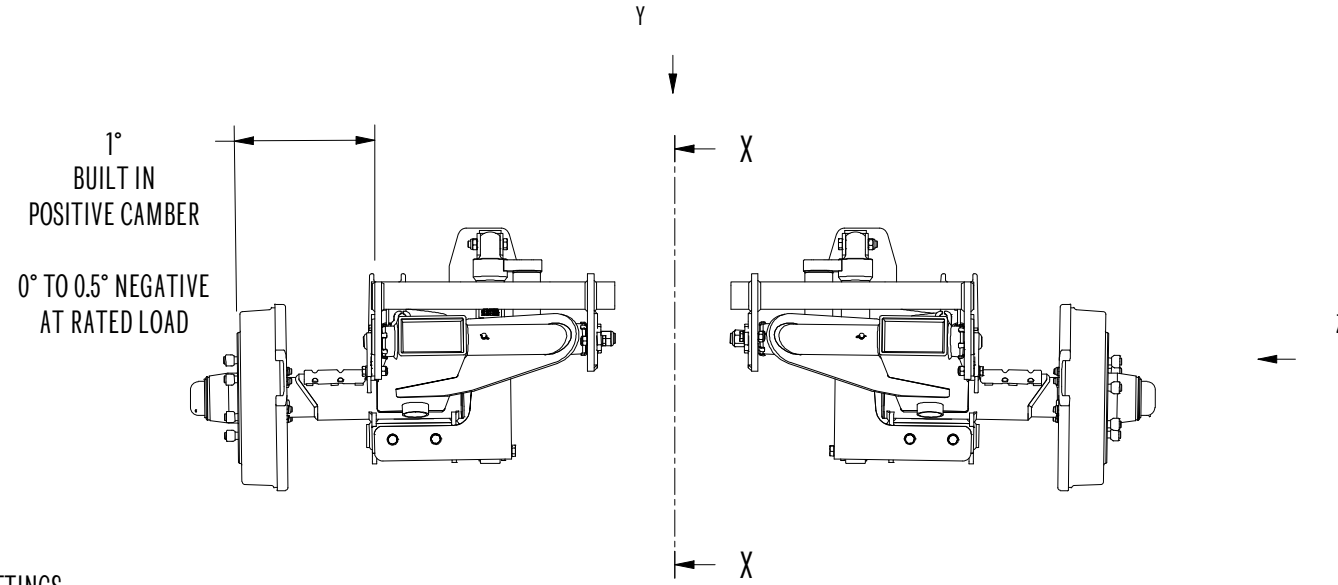
6 - ALIGNMENT

VISIT cruisemaster.com.au FOR ADDITIONAL INFORMATION
SEE CRUISEMASTER CAMBER TOW IN ADJUSTER (CIS 20)

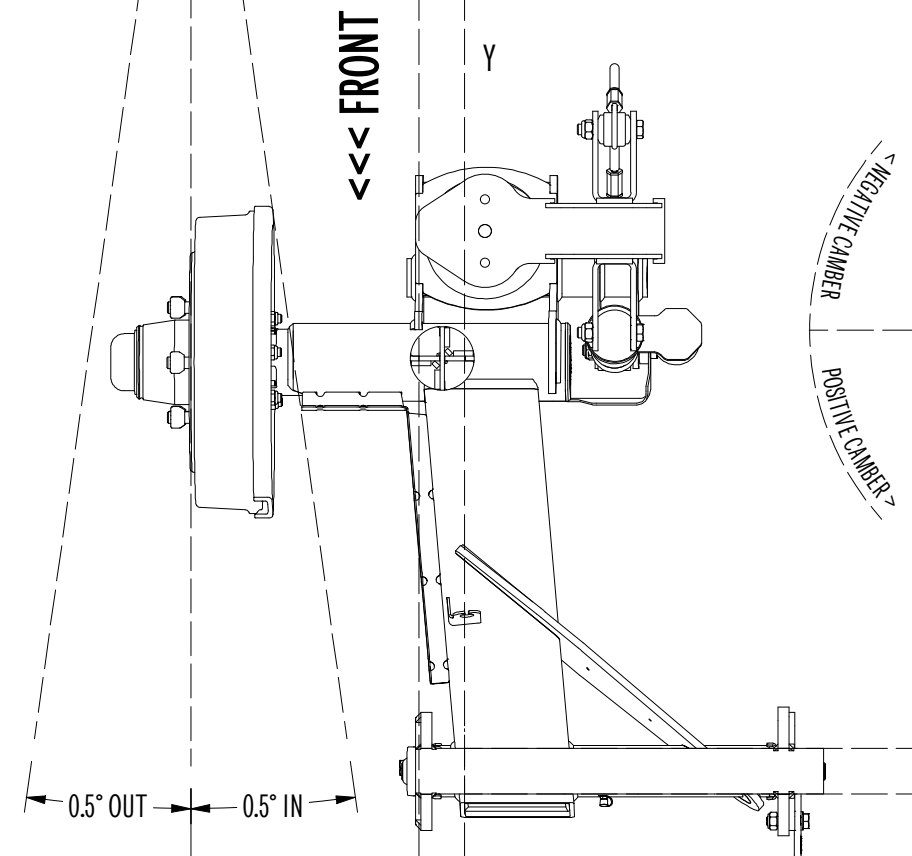


CAMBER ADJUSTMENT

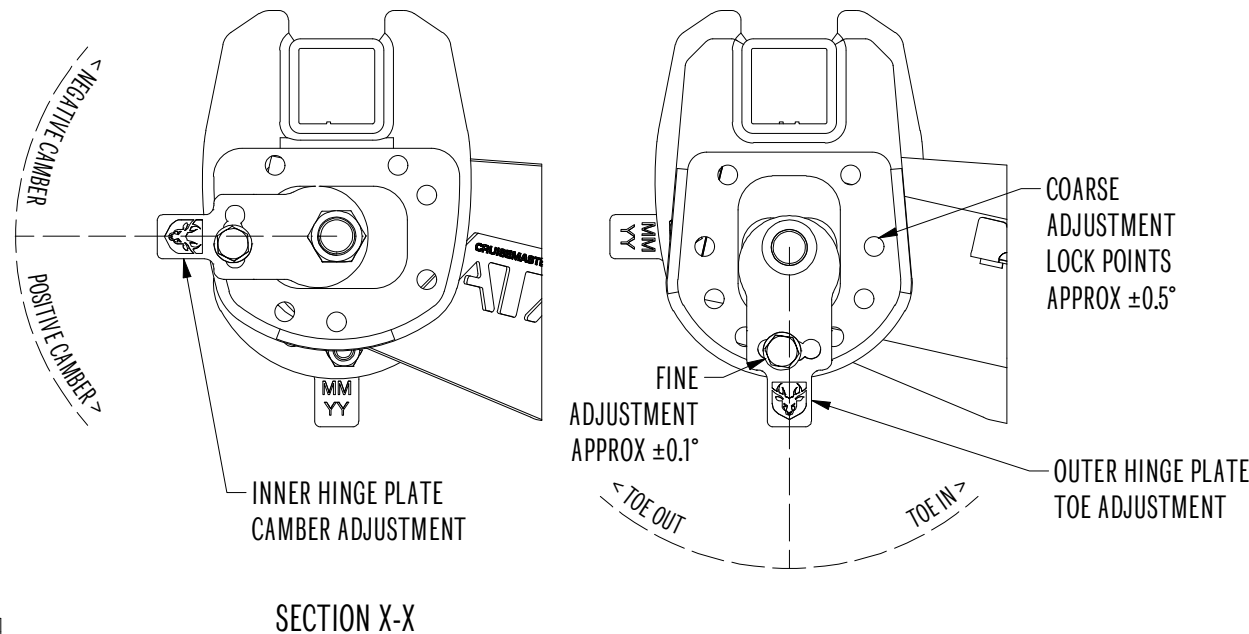
THE SUSPENSION HAS A DEGREE OF POSITIVE CAMBER BUILT IN TO ENSURE THE WHEELS ARE ALIGNED CORRECTLY UNDER LOAD. WHEELS ARE RECOMMENDED TO HAVE 0° TO 0.5° NEGATIVE CAMBER AT RATED LOAD.



X1
GENERAL TOE SETTINGS
0° TO 0.2° FOR FRONT AXLES (X1 - X2 = 0mm to 2mm)
0° FOR REAR AXLES (X1 = X2)



X2
MEASURE DISTANCE FROM CHASSIS TO TYRE FACE USING A STRAIGHT EDGE
USE DIFFERENCE TO DETERMINE TOE
X1 - X2



WHEEL ALIGNMENT PROCEDURE

1. ENSURE THE TRAILER IS FULLY LOADED AND ON A FLAT SURFACE, MOVE THE TRAILER BACKWARDS AND FORWARDS TO ELIMINATE ANY TWIST IN THE WHEELS.

MEASUREMENT

2. PLACE A STRAIGHT EDGE ACROSS THE WHEEL, EDGE OF RIM OR DRUM FACE THEN MEASURE THE DISTANCE FROM THE STRAIGHT EDGE TO THE CHASSIS RAIL. (WHEELS ON A SINGLE OR TANDEM FRONT AXLE SHOULD BE ADJUSTED TO HAVE 2MM TOE-IN. WHEELS ON TANDEM REAR AXLE SHOULD MEASURE PARALLEL FROM THE CHASSIS RAIL.)

3. FOR CAMBER ADJUSTMENT IT IS RECOMMENDED TO USE A DIGITAL SPIRIT LEVEL TO MEASURE ACROSS THE WHEEL RIM OR DRUM FACE.

ADJUSTMENT

4. LIFT THE VEHICLE TO UNLOAD THE SUSPENSION. DO NOT CLIMB UNDER A VEHICLE WHICH IS ONLY SUPPORTED BY JACKS, ENSURE PROPER VEHICLE STANDS ARE USED.

5. LOOSEN THE HINGE NUT AND REMOVE THE ADJUSTER LOCKING BOLTS.

6. TURN THE ADJUSTER IN THE DIRECTION REQUIRED AND ALIGN WITH THE NEAREST BOLT HOLES. USE BOTH COARSE AND FINE ADJUSTMENTS TO FIND THE OPTIMAL POSITION AND USE LOCKING BOLTS TO HOLD THE ADJUSTER IN PLACE.

6. LOWER THE VEHICLE TO FULLY LOAD THE SUSPENSION AND MEASURE THE ALIGNMENT AGAIN TO CHECK ADJUSTMENT IS SATISFACTORY.

7. IF THE NECESSARY ALIGNMENT HAS NOT BE ACHIEVED, REPEAT FROM STEP 4

8. WHEN ADJUSTMENT IS COMPLETED, TORQUE ADJUSTMENT LOCKING BOLTS AND HINGE NUT. (SEE ASSEMBLY SHEET FOR TORQUES)

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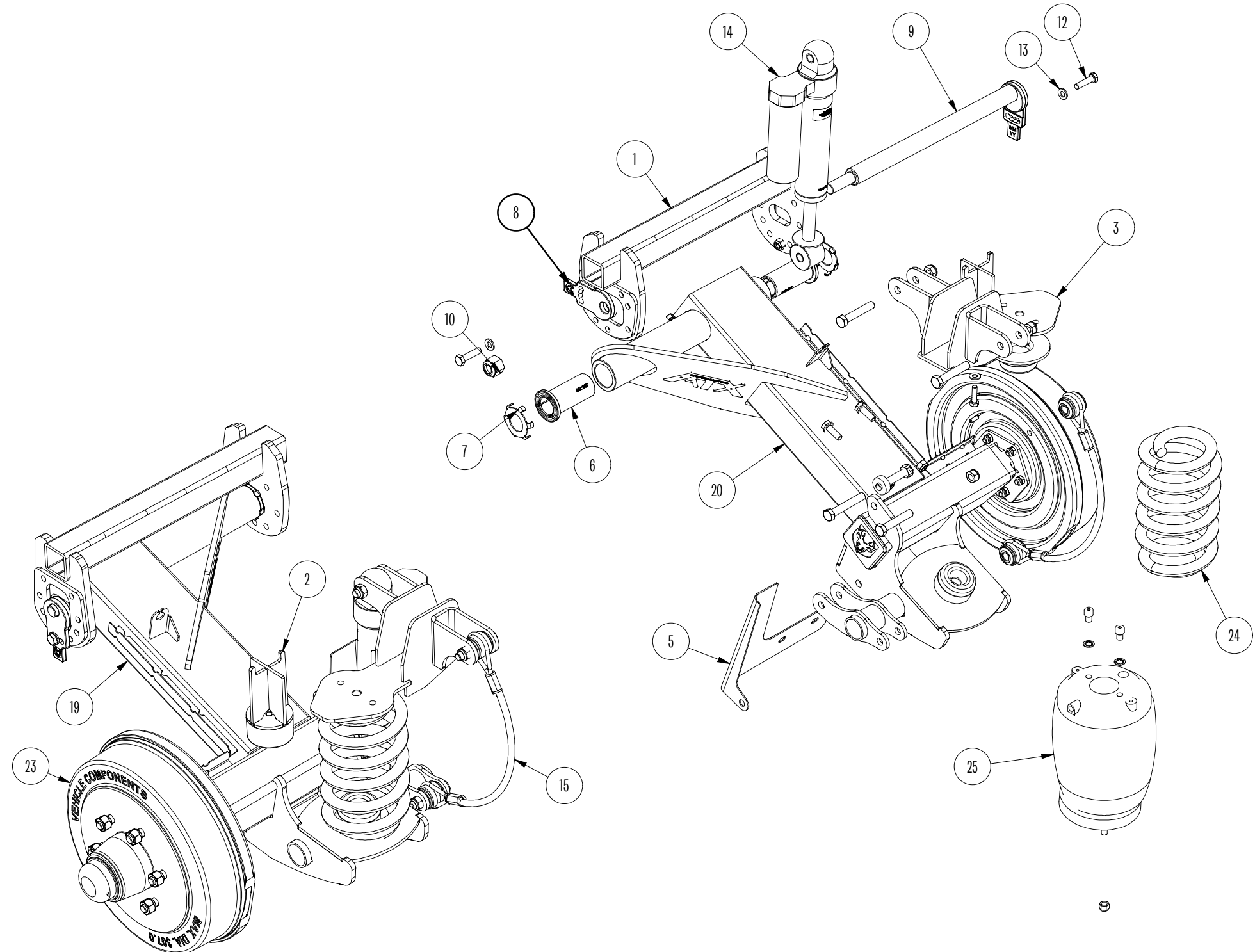
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7 - PARTS LIST



ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	33S 8200	ATX HINGE
2	2	33S 8410	ATX BUMP STOP MOUNT
3	2	33S 8400	ATX SPRING MOUNT
4	2	33S 8056	L - ATX BADGE
5	1	33C 022	CM ATX SHOCK GUARD KIT
6	4	33S-707	CM HINGE BUSH D
7	4	33S 8042	L - HINGE SLIDE WASHER
8	2	33S 8310	ATX LOCKABLE ADJUSTER
9	2	33S 8300	ATX HINGE SPINDLE
10	2	60-N-3/4-UNF-NYL	NUT 3/4 UNF NYLOC
11	4	60-N-M10NYL	NUT ZINC NYLON INSERT M10
12	4	60-B-M10x40	BOLT HEX 8.8 M10x40 Z/P
13	4	60-WF-M10	WASHER FLAT M10 Z/P
14	1	33C 018	M46 BLACK 46mm SINGLE SHOCK KIT
15	1	33C 017	CM ATX RB STRAP KIT
16	1	33C 021	CM ATX BUMP STOP KIT
17	2	60-M-GN-COV	GREASE NIPPLE DUST COVER
18	2	60-M-GN-M6	GREASE NIPPLE M6
19	1	33S 8810L	CM ATX VC EL LEFT
20	1	33S 8810R	CM ATX VC EL RIGHT
21	2	33S-220	PLASTIC END CAP 75
22	1	19-3069-DEXT	BR/KIT 12EL DEXTER
23	2	03-12VC-93-LC6-1/2	H/DRUM 12" VC 93 FITTED LC6 1/2
24	1	33ATX-CC	CM ATX COIL SPRING KIT
25	1	33ATX-AK	CM ATX AIR SPRING KIT



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