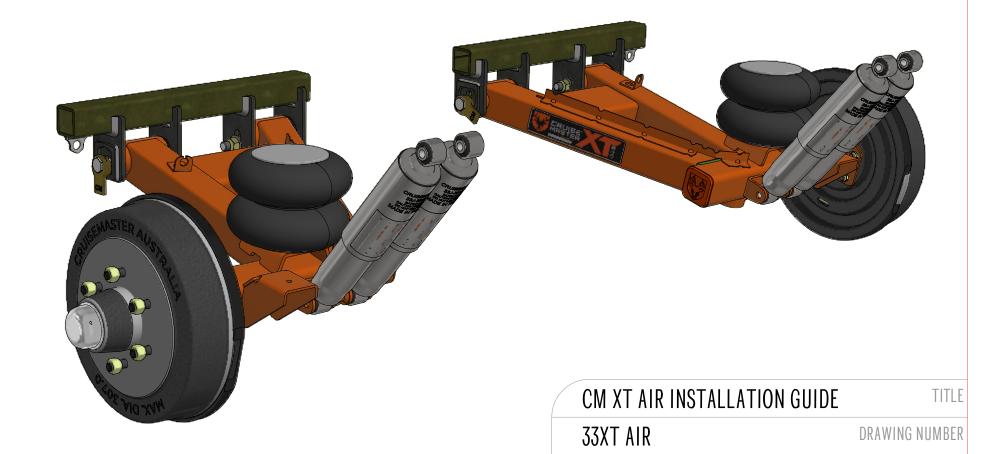




CHASSIS PREPARATION AND SUSPENSION INSTALLATION GUIDE

- 2. LAYOUT
- 3. WELDING
- 4. ASSEMBLY
- 5. ALIGNMENT
- 6. PARTS LIST



REV	DESCRIPTION	ECN	NAME	DATE 27/07/2021 08/09/2020		
3	Update air bracket model	2030	BM	27/07/2021		
2	Correct notes and format	1706	BM	08/09/2020		
1	Release for Production	1706	ВМ	03/09/2020		

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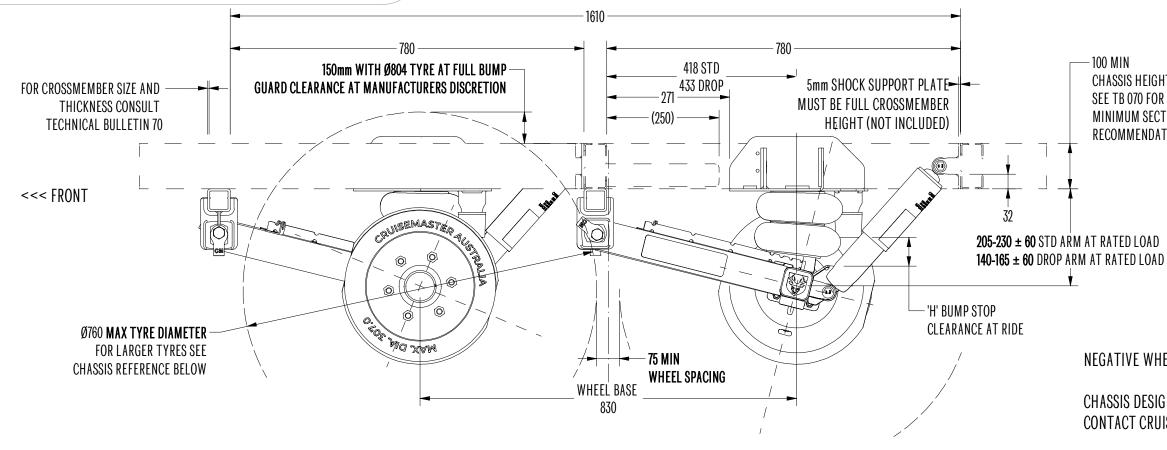
DO NOT SCALE

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2 - LAYOUT





NOTE ADDITIONAL CROSSMEMBER

1660 MIN

SPACE CENTRE CROSSMEMBERS

IF LONGER WHEELBASE IS REQUIRED

0

880 WHEELBASE

SUITABLE FOR MAX Ø804 TYRE

LONG WHEELBASE CHASSIS DETAIL

SPRING	BUMP STOP 'H'
AB 0121-V	65
AB 0136-V	75
AB 0140-V	85

NEGATIVE WHEEL OFFSET NOT ALLOWED

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

MINIMUM OUTER CHASSIS RAIL WIDTH 1150mm.

CROSSMEMBERS AND OUTRIGGERS MUST BE FULL CHASSIS RAIL HEIGHT

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 (VSB1 -**BUILDING SMALL TRAILERS)**

LUBRICATION

(0)

100 MIN

CHASSIS HEIGHT

SEE TB 070 FOR

MINIMUM SECTION

RECOMMENDATIONS

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

CM XT AIR INSTALLATION GUIDE

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LONG END OF HINGE BAR

FLUSH WITH CHASSIS RAIL

RECOMMENDED

GUSSET FOR

HINGE RHS

50x50x3 MIN

Ø804 MAX TYRE DIAMETER

----- 250 MAX ---

ENSURE FLUSH

WELD TOP SIDE FULL LENGTH



3 - WELDING - AIR



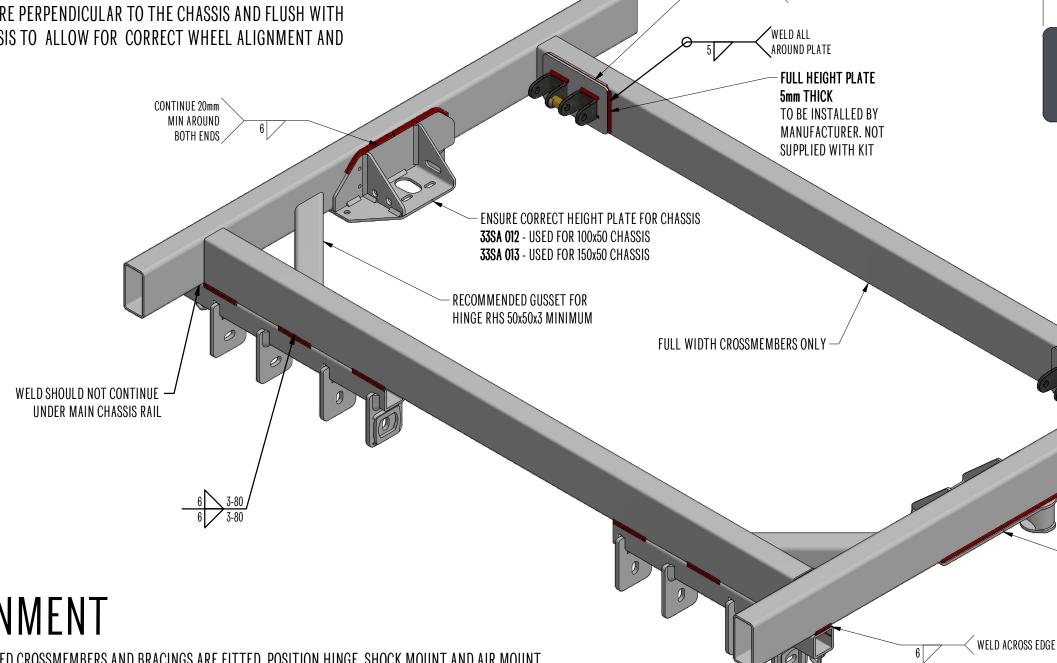
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SHOCK MOUNT DETAIL

SHOCK MOUNT

ALL CHASSIS RAILS AND SUPPORTING CROSSMEMBER SECTIONS MUST BE OF SUFFICIENT STRENGTH TO SUPPORT THE TRAILER AT MAXIMUM LOAD (SEE TECHNICAL BULLETIN 070 FOR DETAIL)

ENSURE HINGES ARE PERPENDICULAR TO THE CHASSIS AND FLUSH WITH OUTSIDE OF CHASSIS TO ALLOW FOR CORRECT WHEEL ALIGNMENT AND **ADJUSTMENT**



1. ALIGNMENT

ENSURE ALL REQUIRED CROSSMEMBERS AND BRACINGS ARE FITTED, POSITION HINGE, SHOCK MOUNT AND AIR MOUNT ENSURE HINGES ARE SQUARE TO MAIN CHASSIS RAIL.

2. HINGES

WELD HINGES TO CROSSMEMBERS AS SPECIFIED

3. SHOCK AND AIR MOUNTS

ENSURE SHOCK AND AIR MOUNTS ARE FITTED AS SHOWN

CM XT AIR INSTALLATION GUIDE

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ALL SHOCK

BRACKETS

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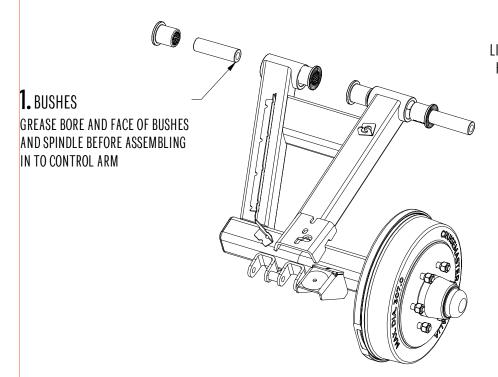
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4 - AIR ASSEMBLY





3. HINGE BOLTS **2.** CONTROL ARM ASSEMBLE THE BOLTS WITH ADJUSTERS LIGHTLY GREASE THE INSIDE FACES OF THE FROM OUTSIDE HINGE FACES HINGE PLATES AND FIT THE CONTROL ARM

2 3

4. HINGE NUTS ASSEMBLE NUTS TO

PREVIOUSLY ASSEMBLED BOLTS TORQUE TO SPEC ONCE ALIGNED

7. TORQUE AND GREASE ←

HINGE NUTS

HANDBRAKE CABLE GUIDE ROUTE CABLE THROUGH BEFORE

ATTACHING TO BRAKE

- REFER TO WHEEL ALIGNMENT FOR ADJUSTER POSITIONING
- USE GREASE NIPPLE TO FILL HINGE CAVITY (GREASE SHOULD SQUEEZE FROM BUSHES)

WIRING HARNESS

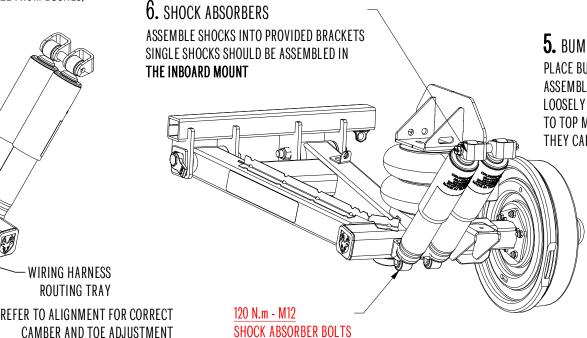
ROUTING TRAY

- STANDARD GREASE NIPPLE FITMENT IS M6 STRAIGHT

M6 x 90 DEGREE AVAILABLE ON REQUEST

- ONCE HINGE IS ASSEMBLED TORQUE ALL BOLTS AS SPECIFIED

- USE PROVIDED CABLE TRAY TO ROUTE WIRING



AIRBAG MOUNTING BOLTS

16 N.m - 3/8 UNC

5. BUMP STOPS AND AIRBAG PLACE BUMP STOP ON CHASSIS BRACKET ASSEMBLE AIRBAG TO ARM MOUNT AND LOOSELY ASSEMBLE BOLTS BEFORE BOLTING TO TOP MOUNT. ONCE ALL BOLTS ARE FITTED THEY CAN BE TORQUED ACCORDING TO SPEC.

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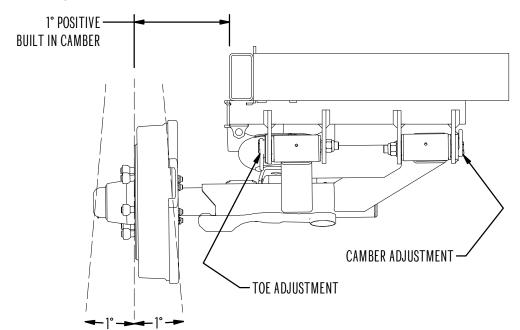
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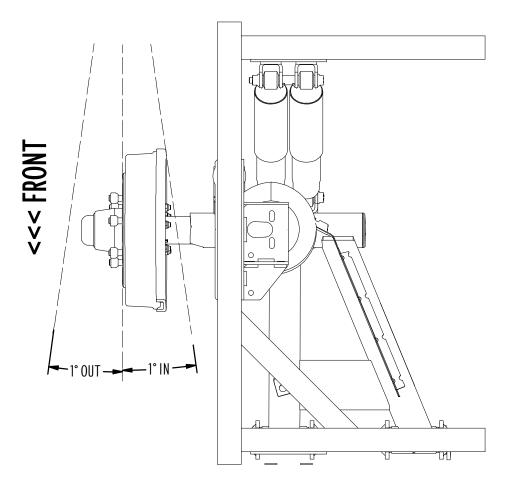


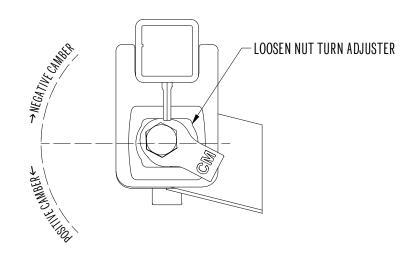
5 - ALIGNMENT

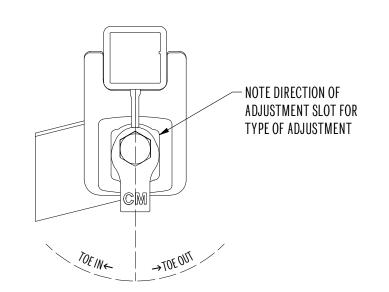
CAMBER ADJUSTMENT

THE SUSPENSION HAS 1 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.











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

TOE OR CAMBER 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 TURN THE ADJUSTER IN THE DIRECTION REQUIRED TO OBTAIN DESIRED ADJUSTMENT.

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

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

8. WHEN ADJUSTMENT IS COMPLETED, TIGHTEN AND TORQUE HINGE NUT. (SEE ASSEMBLY SHEET)

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XT BASE FRAME KIT

SEE SHOCK TABLE

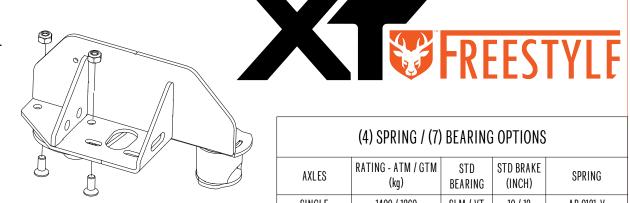
SEE SPRING TABLE

PLASTIC END CAP 65

INDEPENDENT HINGE ASSY

SPINDLE KIT

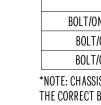
6 - OPTIONS AND PARTS LIST AIR



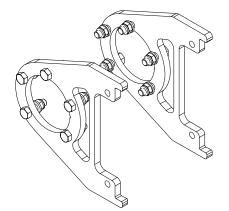
(4) SPRING / (7) BEARING OPTIONS

AXLES	RATING - ATM / GTM (kg)	STD Bearing	STD BRAKE (INCH)	SPRING
SINGLE	1400 / 1260	SLM / VT	10 / 12	AB 0121-V
SINGLE	1700 / 1530	SLM / VT	10 / 12	AB 0136-V
SINGLE	2600 / 2340	VT	12	AB 0140-V
TANDEM	2800 / 2520	SLM / VT	10 / 12	AB 0121-V
TANDEM	3400 / 3060	VT	12	AB 0136-V
TANDEM	4500 / 4050	VT	12	AB 0140-V

COIL MOUNT OPTIONS								
33XT-COIL PART #	DESCRIPTION	BUMP STOP						
BOLT/ON-HD-TS	BOLT ON HD TWIN SHOCK	33SC-110 - RED						
BOLT/ON-SS	BOLT ON SINGLE SHOCK	33SC-107 - BLUE						
BOLT/ON-TS	BOLT ON TWIN SHOCK	33SC-107 - BLUE						



*NOTE: CHASSIS BUILT WITH AIR COMPONENTS CAN BE CONVERTED TO RUN COIL WITH THE CORRECT BOLT ON KIT TO SUIT THE TRAILER ATM



(9) BRAKE OPTIONS OPTION CONDITIONS CRUISEMASTER ELEC. DEXTER ELEC. ALKO ELEC. DEEMAX DISC VT ONLY

*NOTE: **33XT-HYD-CONV** KITS AVAILABLE TO CONVERT EXISTING 12" ELECTRIC BRAKE KITS TO DEEMAXX DISC WHERE COMPATIBLE*

(3) SHOCKS								
PART	KIT	BOLT KIT						
33J-2900	SINGLE STD WHITE	33C-030						
33J-3000	SINGLE HD SILVER	33C-030						
33J-2900	DUAL STD WHITE	33C-031						
33J-3000	DUAL HD SILVER	33C-031						

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2 09-*VARIES* SEE BEARING TABLE 33XT COIL BOLT ON KITS ARE AVAILABLE TO CONVERT XT ARM STICKER 33S-306 EXISTING AIR CHASSIS WITH THE COIL/AIR BRACKET FROM BRAKES *VARIES* SEE BRAKE TABLE 1 33B 021 FORGED CABLE GUIDE SEE AIR INSTALLATION GUIDE FOR WELDING INFORMATION AIR BUMP STOP KIT **33C-033** INCLUDES **BOLTS AND WASHERS** BRAKE CABLES TO BE ROUTED -ALONG TRAY, SECURE WITH CABLE TIES AT PROVIDED INTERVALS CABLE TRAY IS POSITIONED ON OPPOSITE ARM WITH XT COIL FRAMES

CHASSIS TO FACE OPTIONS

ITEM QTY

33XT-SA100-VT93-P-D-HS

33XT-SPINDLE-BUSH-KIT

33J-*VARIES*

2 33SA-ABO

2 | 33S-221

2 33EA 017

POSITIVE OFFSET WHEELS CAN BE USED TO REDUCE EFFECTIVE CHASSIS TO FACE WITHIN PERMISSIBLE RANGE

RED ZONE DENOTES UNACCEPTABLE C/F AND WEIGHT COMBINATION

SINGLE AXLE BY ATM					TANDEM AXLE BY ATM										
2,600								4,500							
1,700								3,400							
1,400								2,800							
	200	210	220	230	240	250	260		200	210	220	230	240	250	260

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