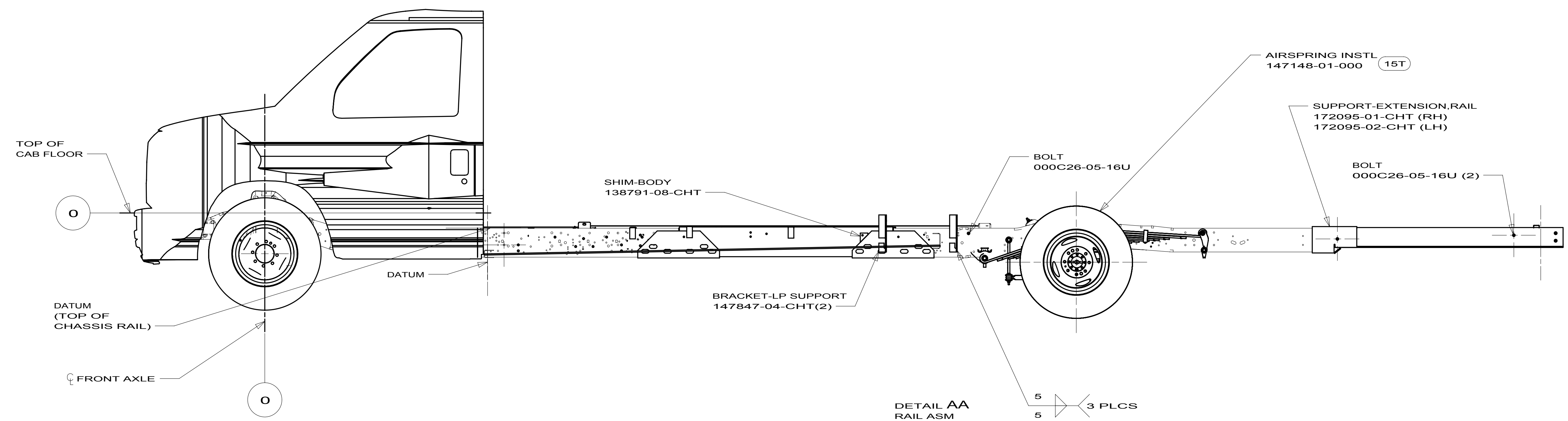
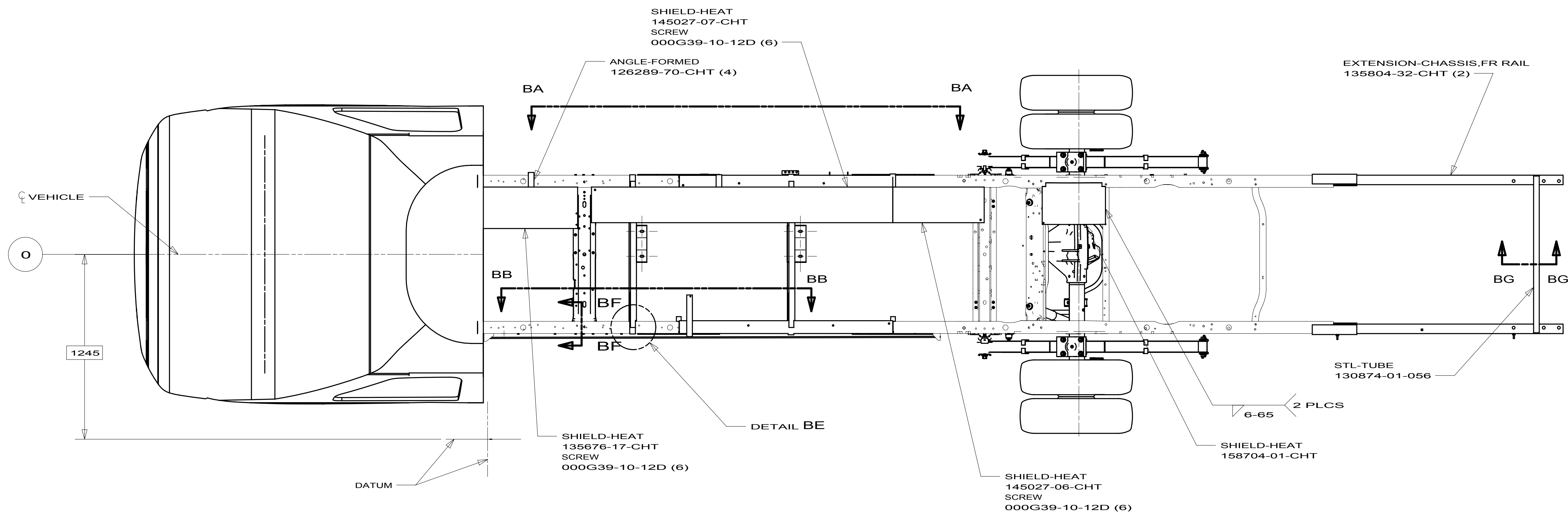




- NOTES:
1. SPRAY ALL WELDS WITH UNDERCOAT 100053-01-000 OR 100053-03-000.
 2. CLEAN AND E-COAT ALL PIECE PARTS PRIOR TO ASSEMBLY.
 3. SEAL ALL JOINTS OF COMPARTMENTS AND CLOSEOUT PANELS WITH SEALANT 053766-01-000.
 4. WELD PER ES0063, UNLESS OTHERWISE SPECIFIED.
 5. LEFT CHASSIS RAIL TOOLING HOLE IS USED FOR FIXTURING ASSEMBLY.

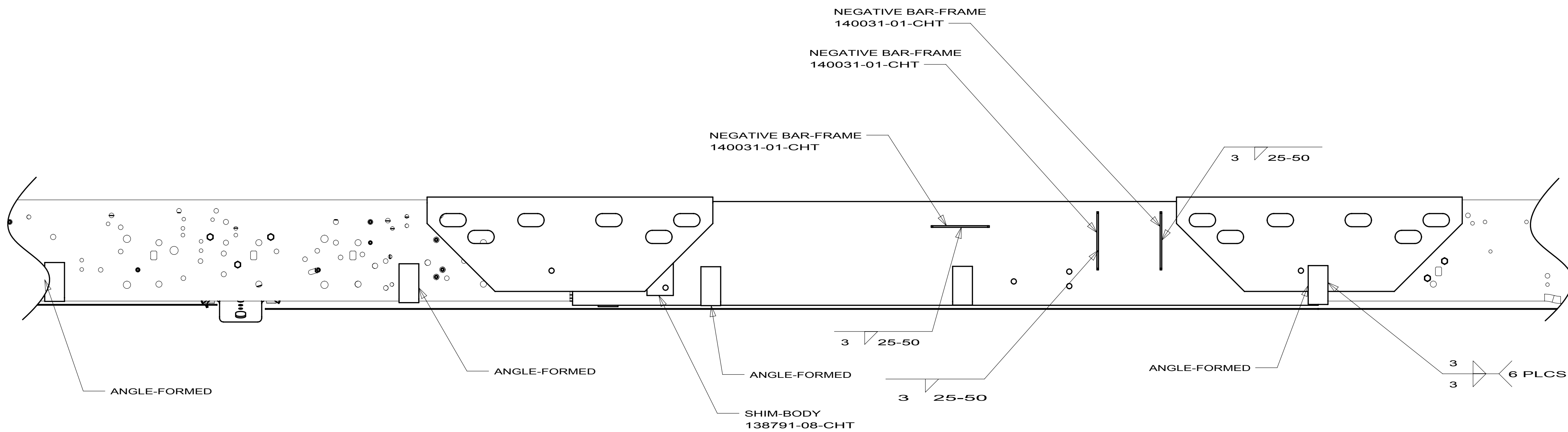
11. LOCATE ZEE-FORMED W/HOLES TIGHT TO FRAME TUBE.
10. CUT TUBE OUT AFTER WELDMENT.
9. DO NOT WELD PAST TANGENT POINT INTO RADIUS OR FLANGE ON FRAME RAILS.
8. SEAL VOID WITH SEALANT 053766-01-000.
7. WELD PLATE ASM 136995-03-CHT AFTER SLIDEOUT ARMS ARE LOCATED.
6. REMOVE TWO REAR SCREWS ON RIGHT SEAT BELT MOUNT.

(15T) AIR SPRINGS REAR

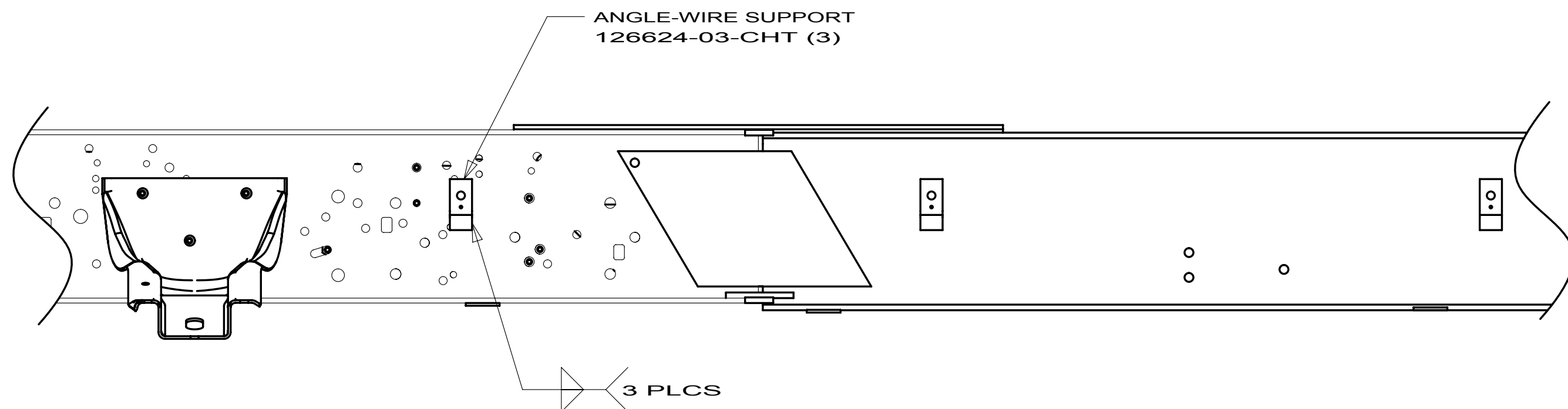
SEE CHART
FOR COLOR VARIATIONS
OF THIS PART

172964-14	5
172964-13	4
172964-12	3
172964-11	1
PART NO	SHEET

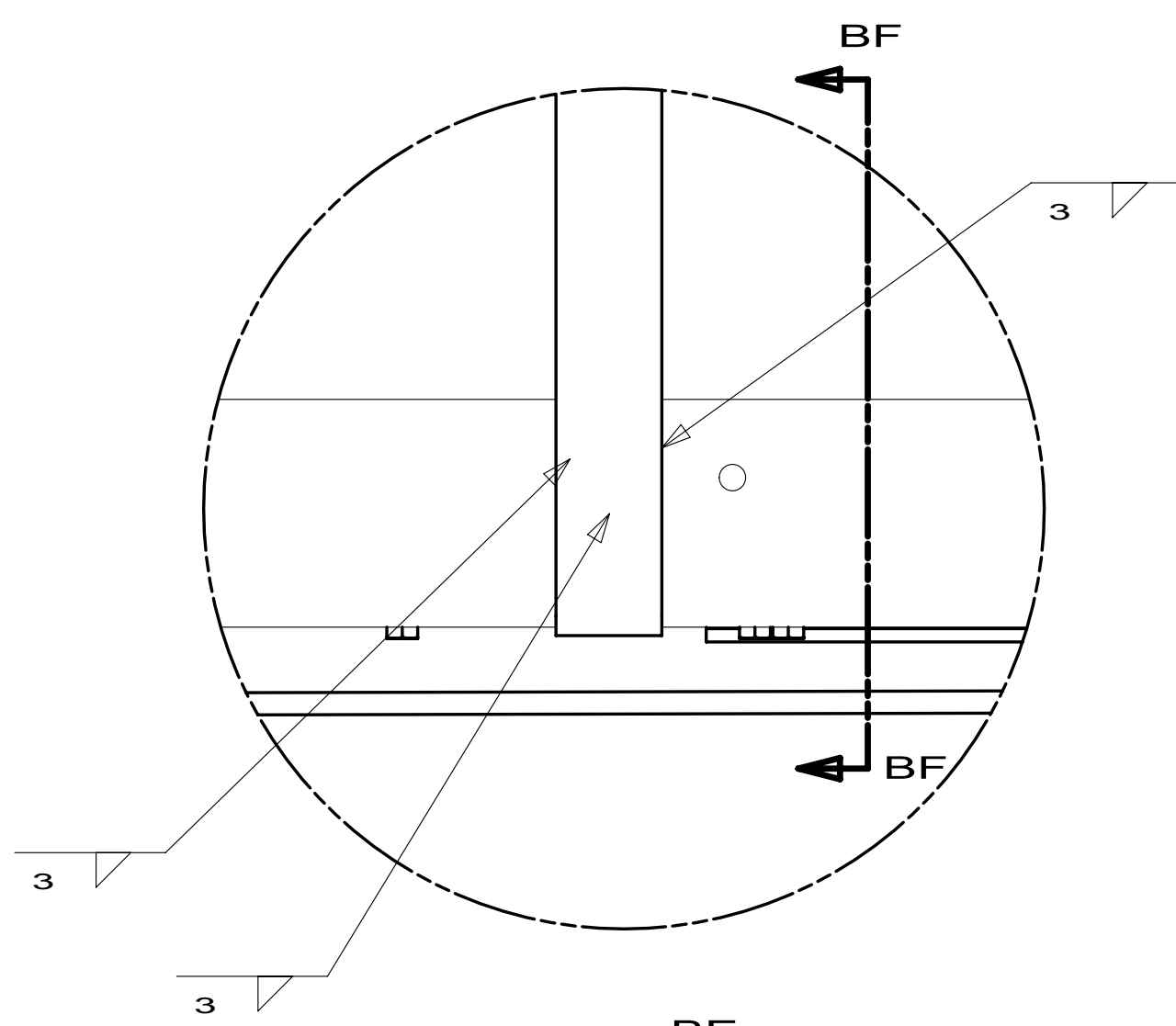
WINNEBAGO INDUSTRIES		COPYRIGHT 2010 WINNEBAGO INDUSTRIES, INC.	
DFT-ORIG		ORIG. DATE	
CHKD		ALL DIMENSIONS ARE IN MILLIMETERS	
P.E.		FIRST USED	
M.E.		10 231N	
DSNR			
UNSPECIFIED TOLERANCES ARE:		MATERIAL:	
WHOLE DIM (X) : 3			
ONE-PLACE (X.X) : 1.5			
TWO-PLACE (X.XX) : 0.50			
ANGLE : 1°			
THIRD ANGLE PROJECTION			
DO NOT SCALE DRAWING		REFER TO ES0018 FOR FASTENER TIGHTENING GUIDELINES	
TITLE: FRAME ASM-CHASSIS,FORD			
SHEET 1 OF 8		PART NO 172964 REV	
REF:		1	



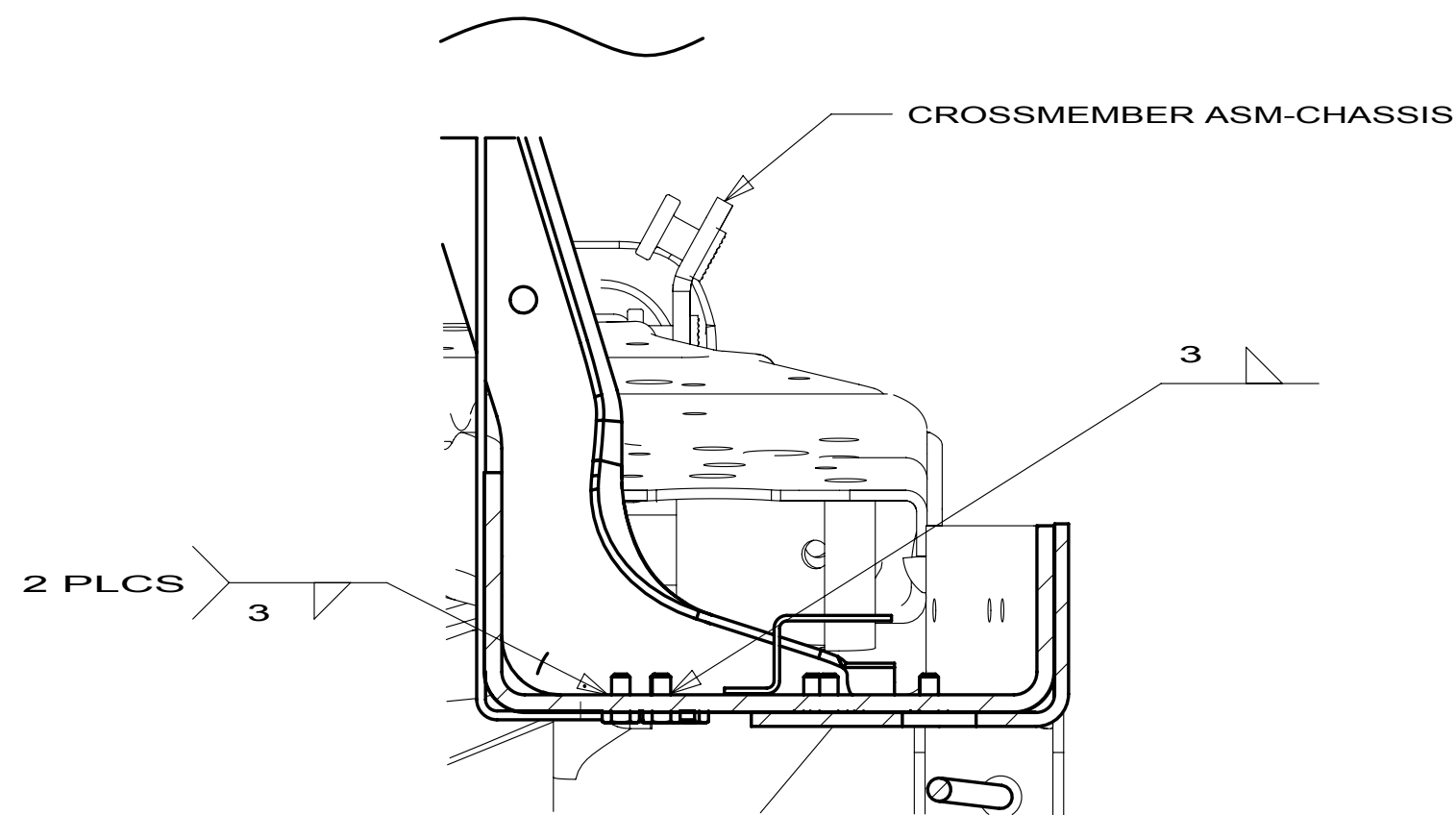
SECTION BA-BA



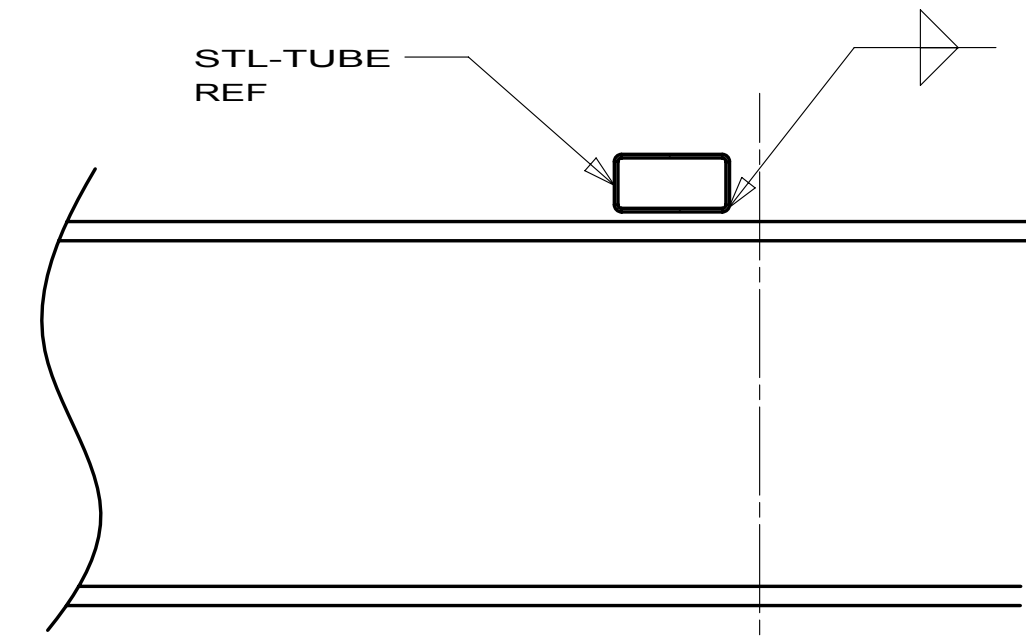
SECTION BB-BB



DETAIL BE

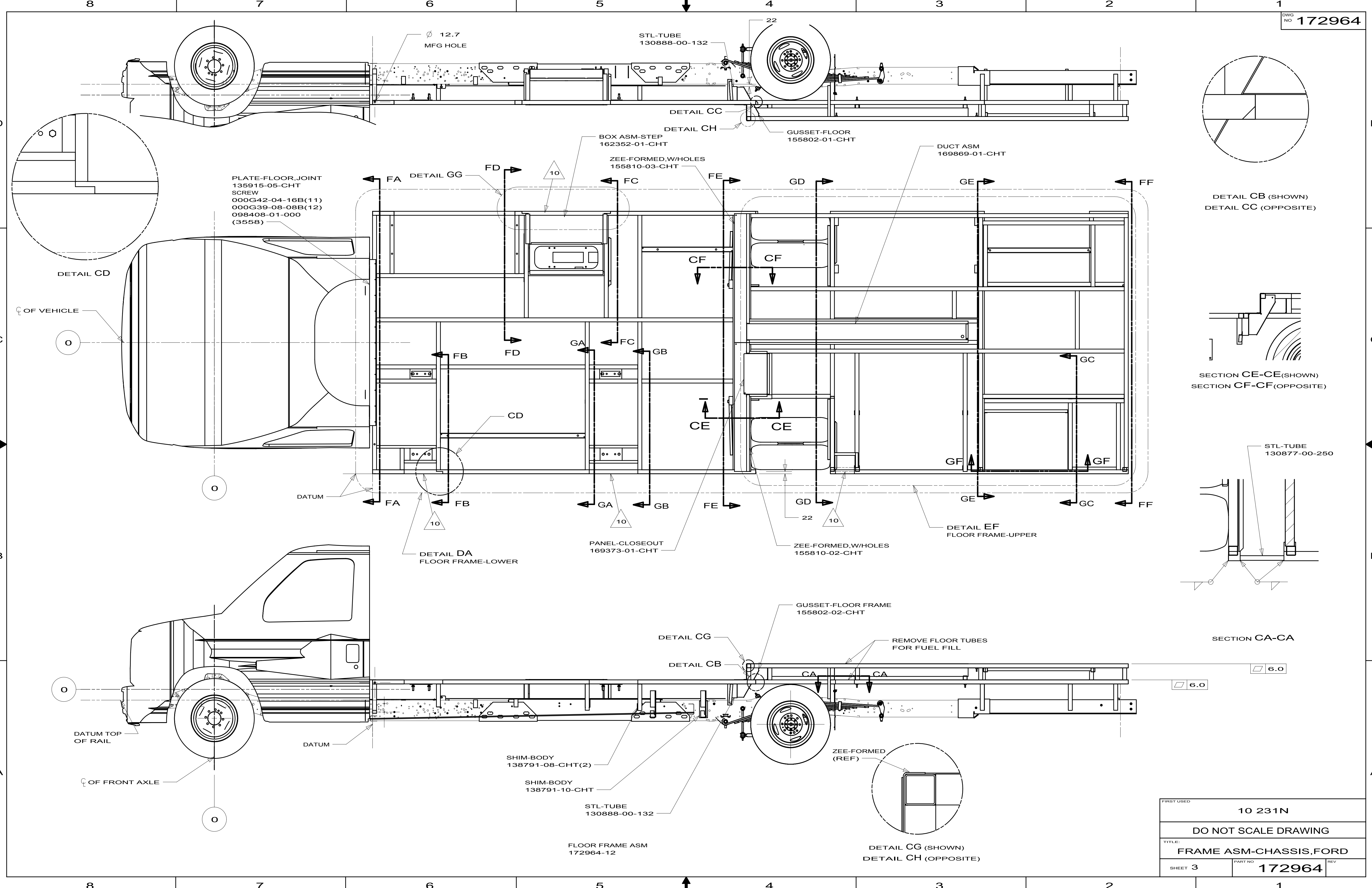


SECTION BF-BF

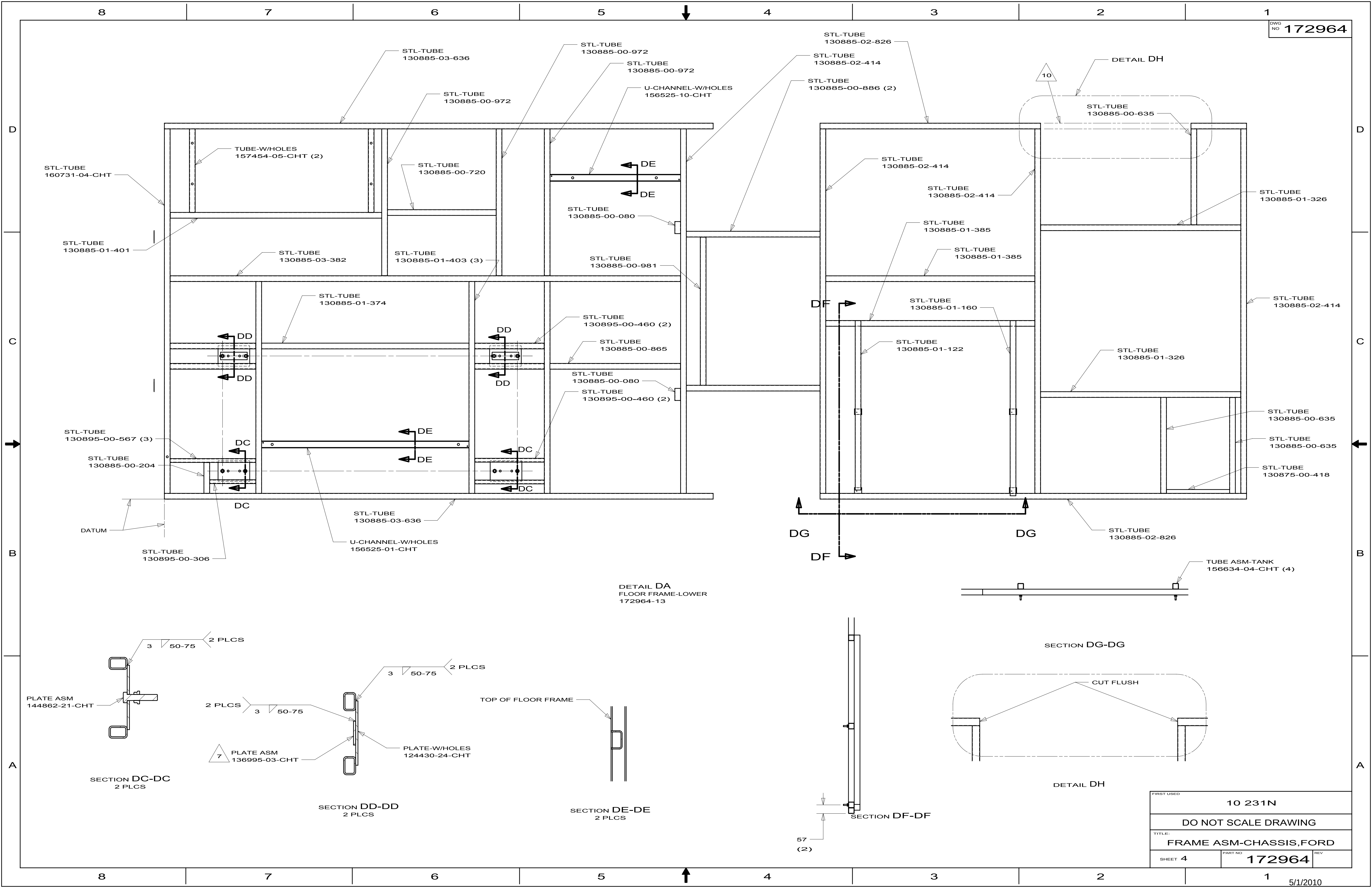


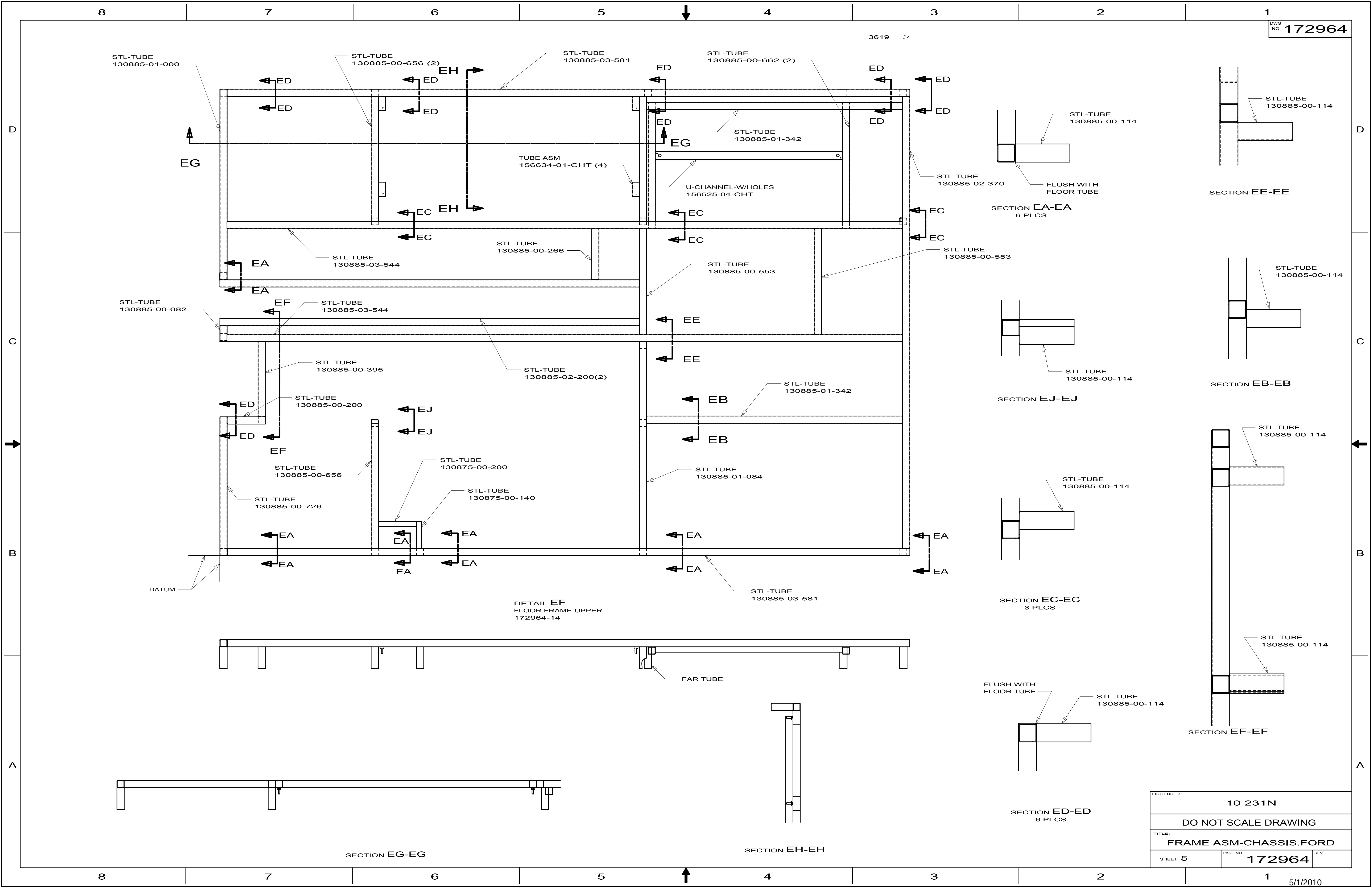
SECTION BG-BG

FIRST USED			10 231N
DO NOT SCALE DRAWING			
TITLE: FRAME ASM-CHASSIS,FORD			
SHEET 2	PART NO	172964	REV



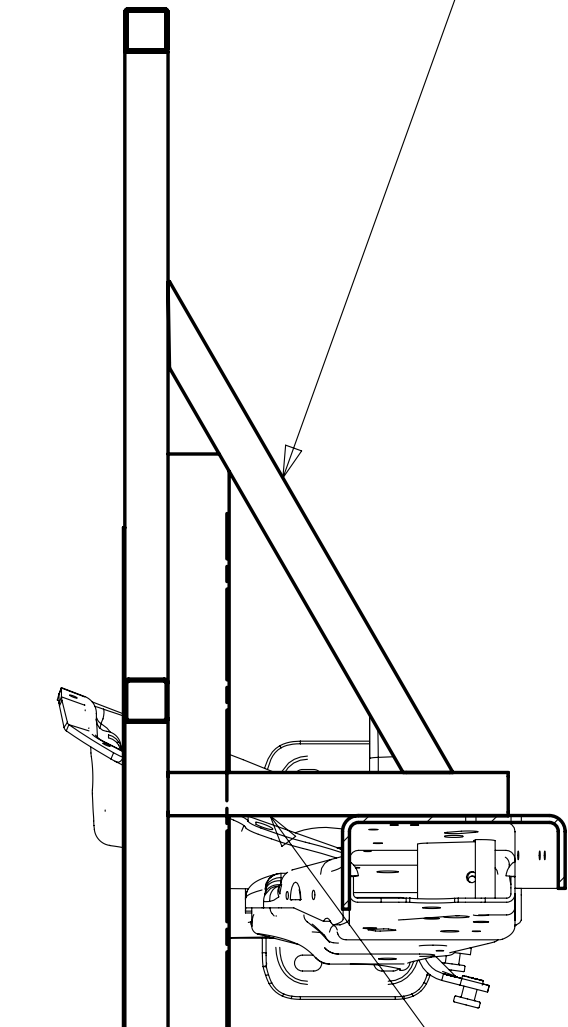
FIRST USED		
10 231N		
DO NOT SCALE DRAWING		
TITLE: FRAME ASM-CHASSIS, FORD		
SHEET 3	PART NO 172964	REV





FIRST USED			10 231N		
DO NOT SCALE DRAWING					
TITLE: FRAME ASM-CHASSIS,FORD					
SHEET 5		PART NO		REV	
		172964			

TUBE-MITERED
142628-09-CHT (2)

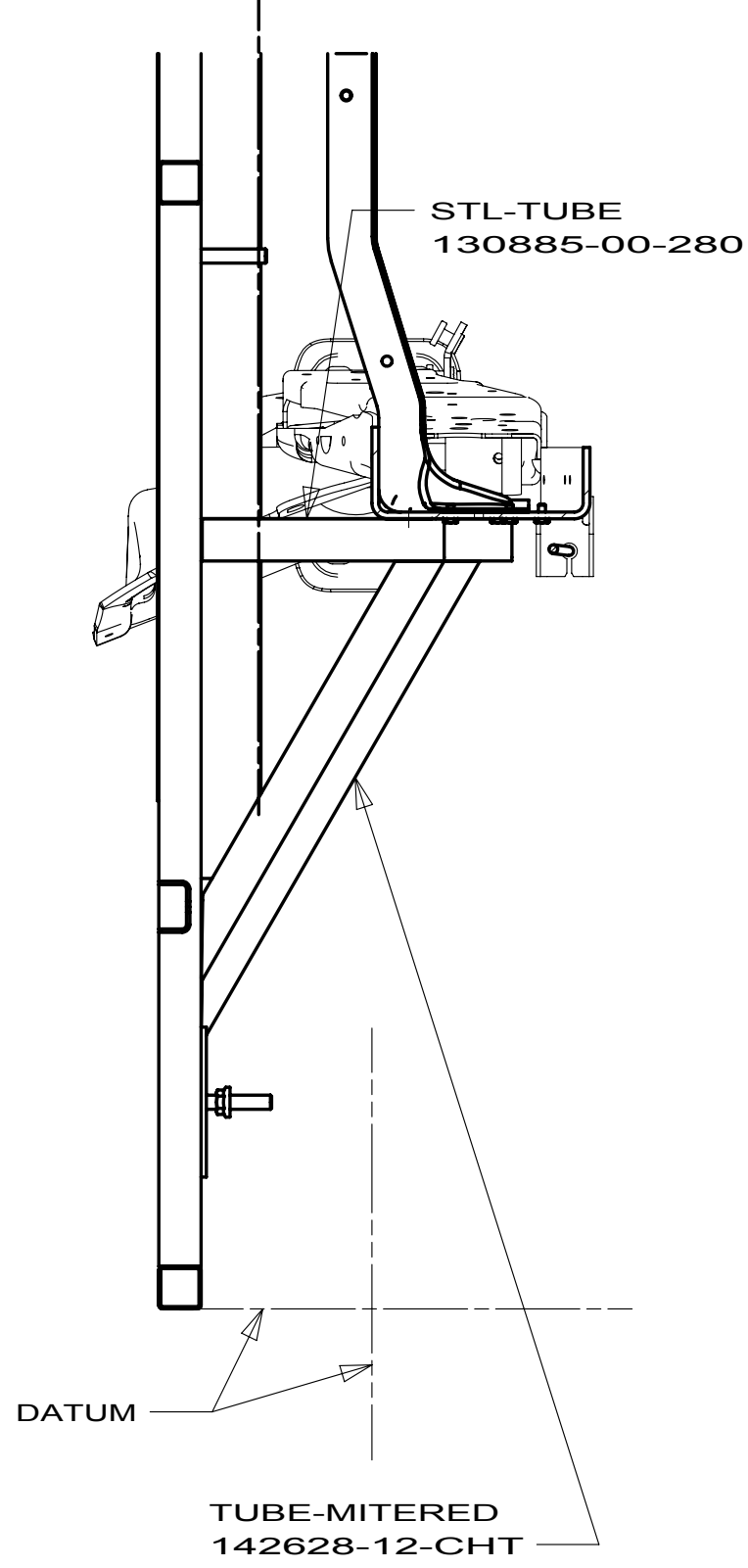


STL-TUBE
130885-00-300

STL-TUBE
130885-00-280

DATUM

SECTION FA-FA

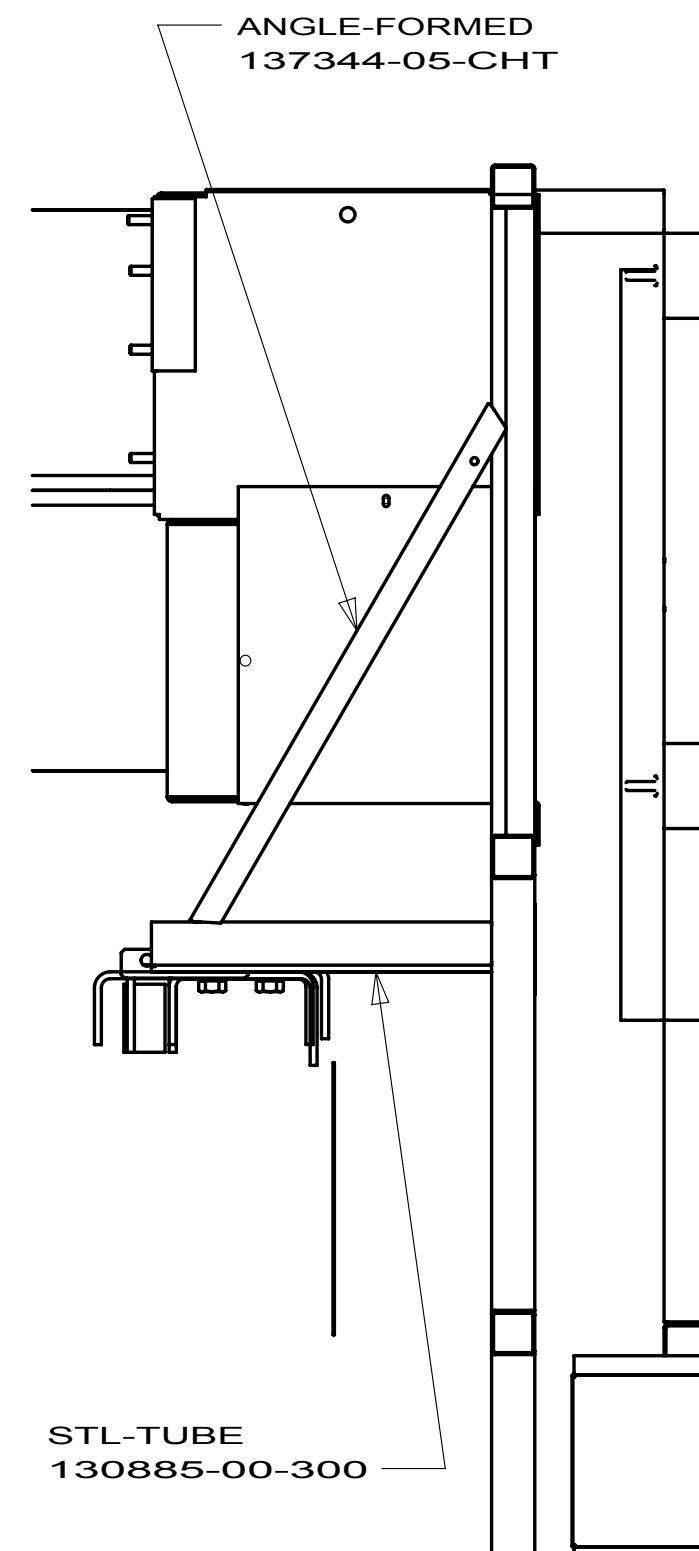


STL-TUBE
130885-00-280

DATUM

TUBE-MITERED
142628-12-CHT

SECTION FB-FB

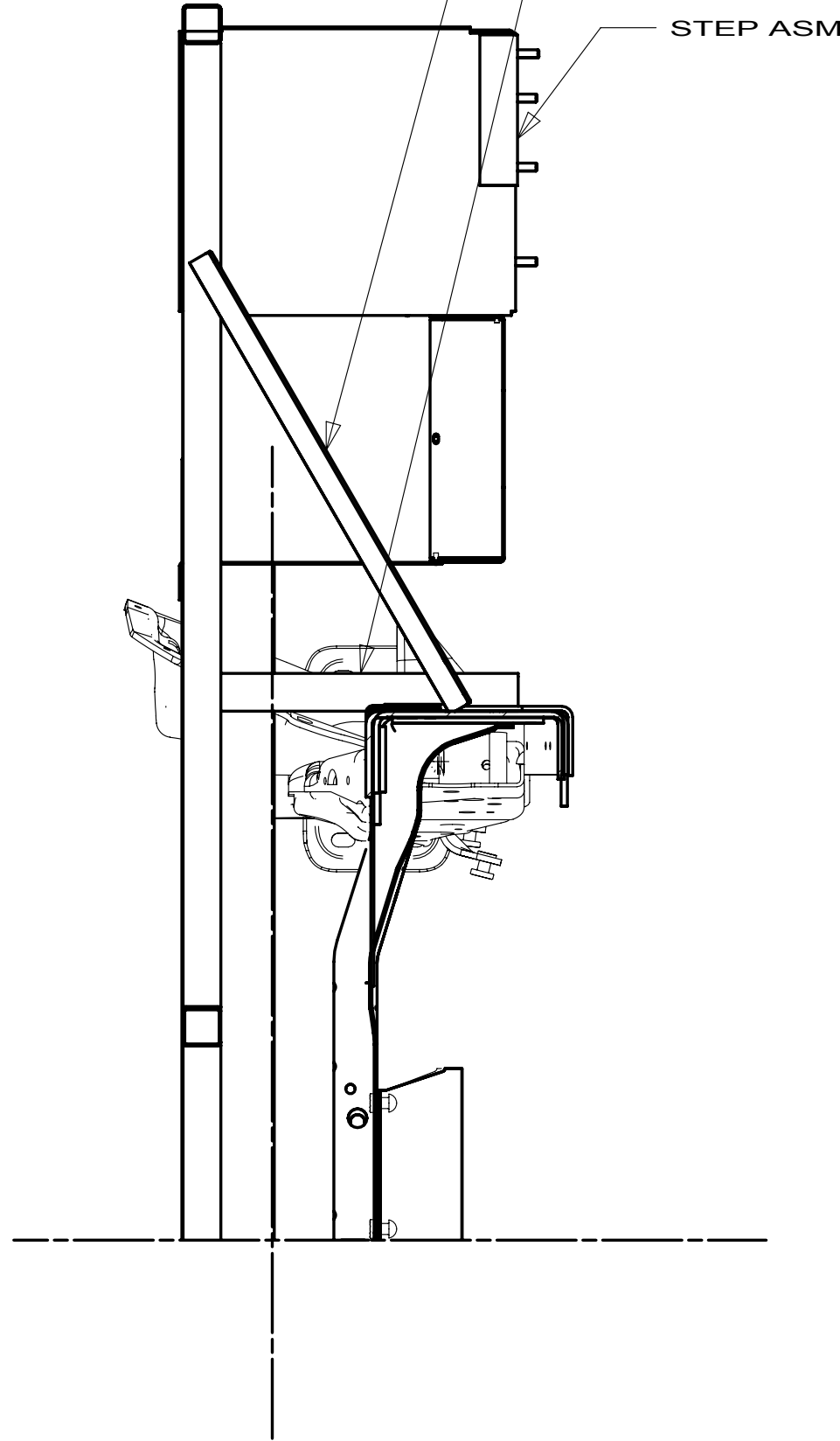


ANGLE-FORMED
137344-05-CHT

STL-TUBE
130885-00-300

SECTION FD-FD

STL-TUBE
130885-00-300
ANGLE-FORMED
137344-05-CHT



STEP ASM

SECTION FC-FC

GUARD ASM-ROCK
136391-02-CHT
BOLT
000C26-05-12U (3)
NUT
000D39-05-00U (3)

ANGLE-FORMED
137344-05-CHT

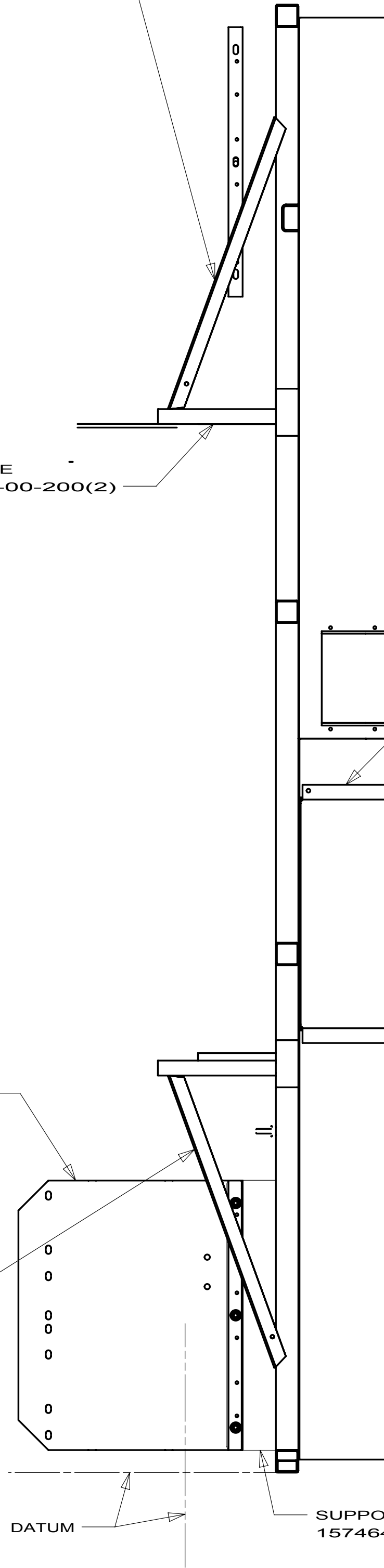
DATUM

SECTION FE-FE

ANGLE-FORMED
137344-05-CHT

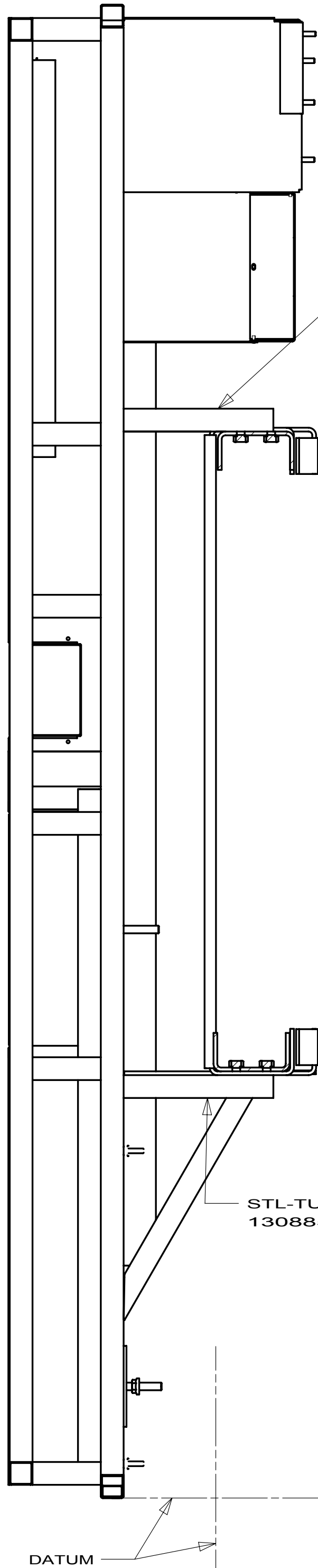
STL-TUBE
130890-00-200(2)

PANEL CLOSEOUT
169459-01-CHT



SUPPORT-MUD FLAP
157464-02-CHT

STL-TUBE
130885-00-250

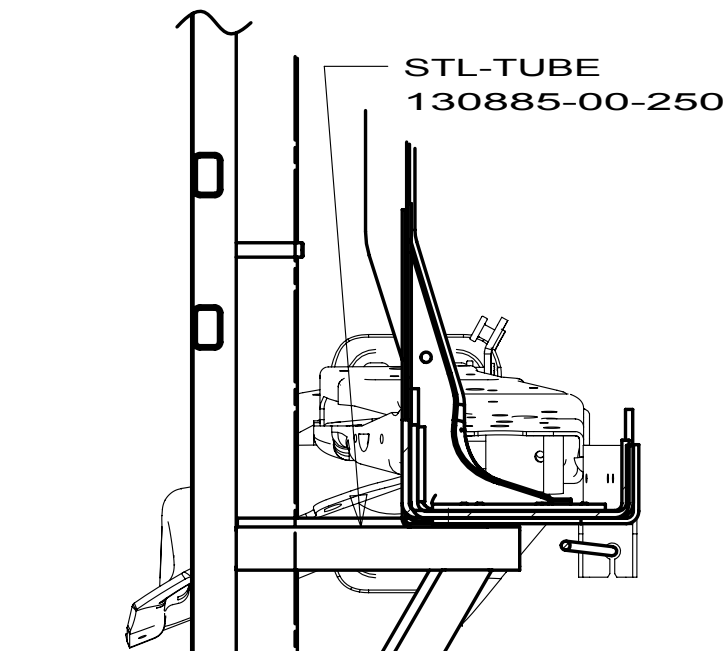


STL-TUBE
130885-00-250

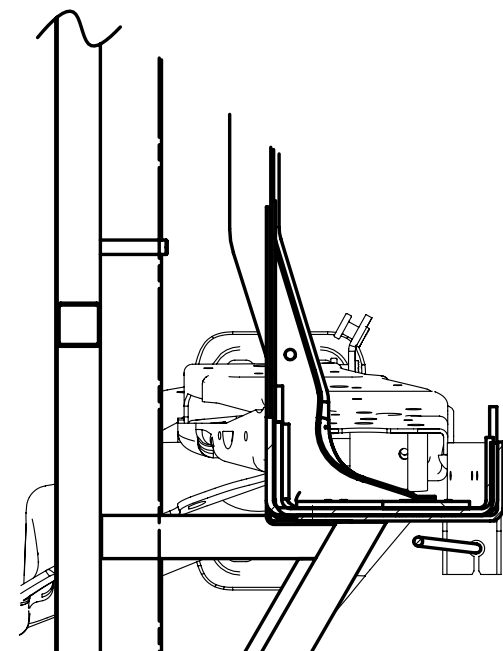
DATUM

SECTION FF-FF

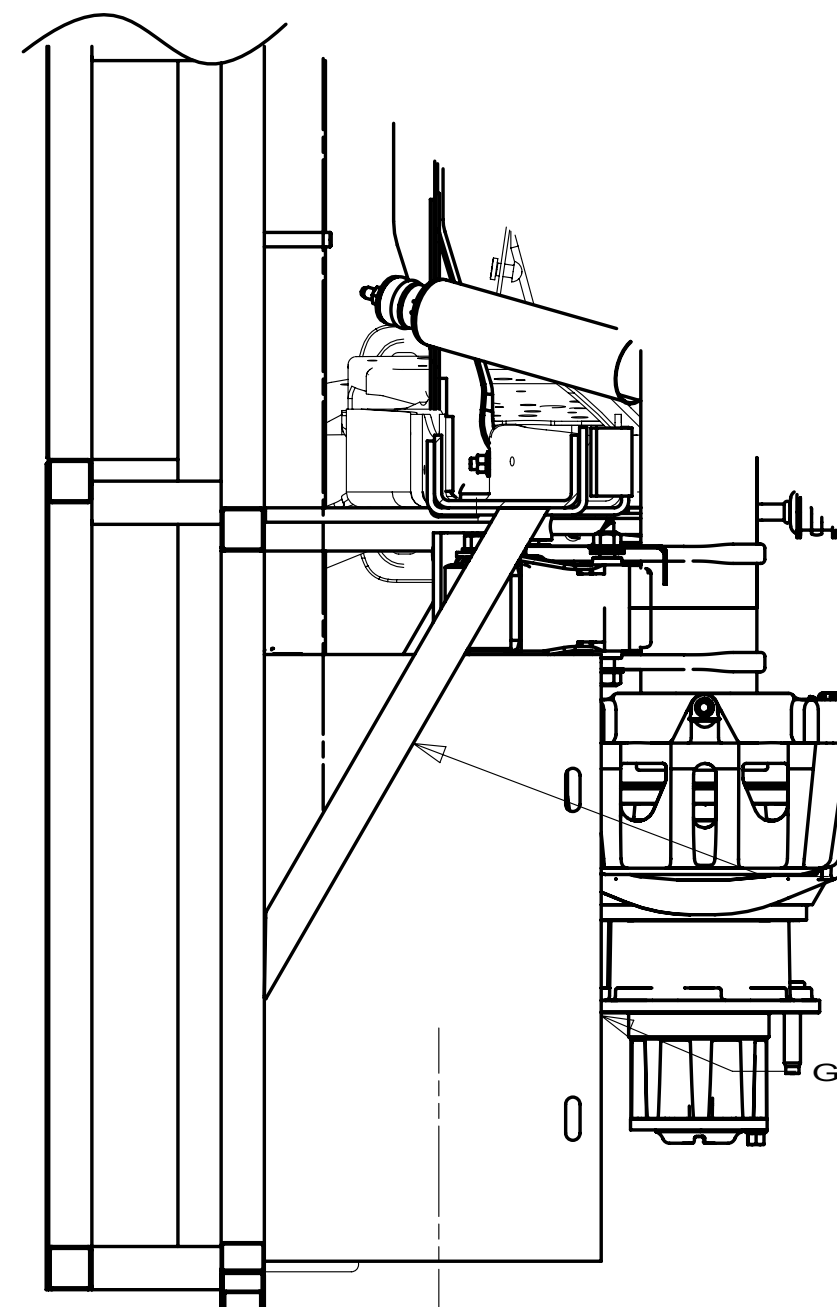
FIRST USED			10 231N
DO NOT SCALE DRAWING			
TITLE: FRAME ASM-CHASSIS,FORD			
SHEET 6	PART NO	172964	REV



TUBE-MITERED
142628-10-CHT



TUBE-MITERED
142628-09-CHT



TUBE-MITERED
142628-09-CHT

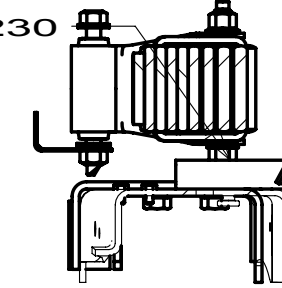
GENERATOR COMPT

GUARD ASM-ROCK
136391-02-CHT (2)
BOLT
000C26-05-12U (6)
NUT
000D39-05-00U (6)

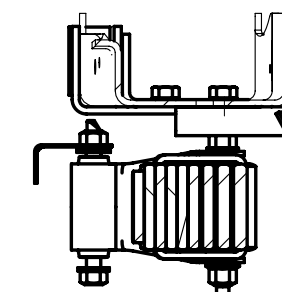
ANGLE-FORMED
137344-02-CHT

SUPPORT-MUD FLAP
157464-02-CHT (2)

STL-TUBE
130890-00-230



STL-TUBE
130890-00-230



DATUM

ANGLE-FORMED
137344-02-CHT

PANEL-CLOSEOUT
156601-01-CHT

SECTION GD-GD

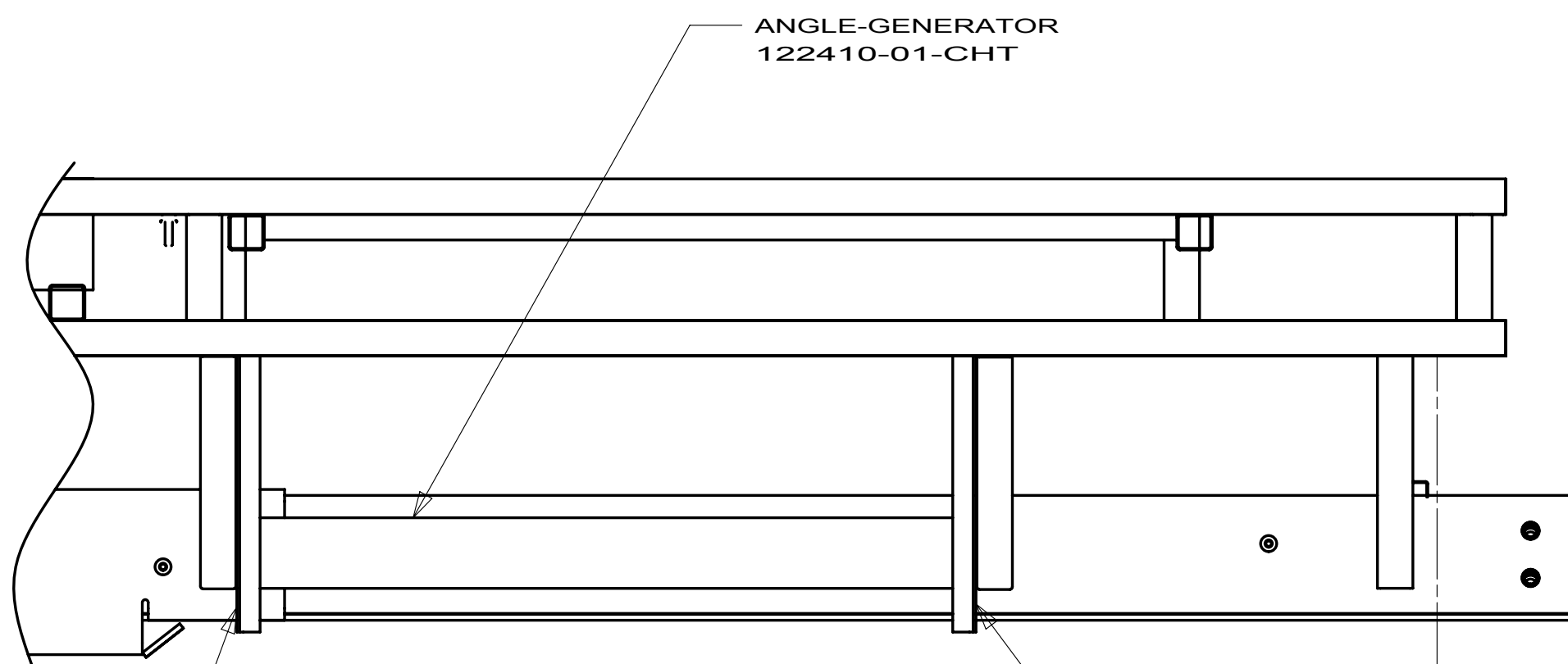
STL-TUBE
130885-00-250

STL-TUBE
130885-00-250



SECTION GE-GE

TUBE-MITERED
142628-09-CHT

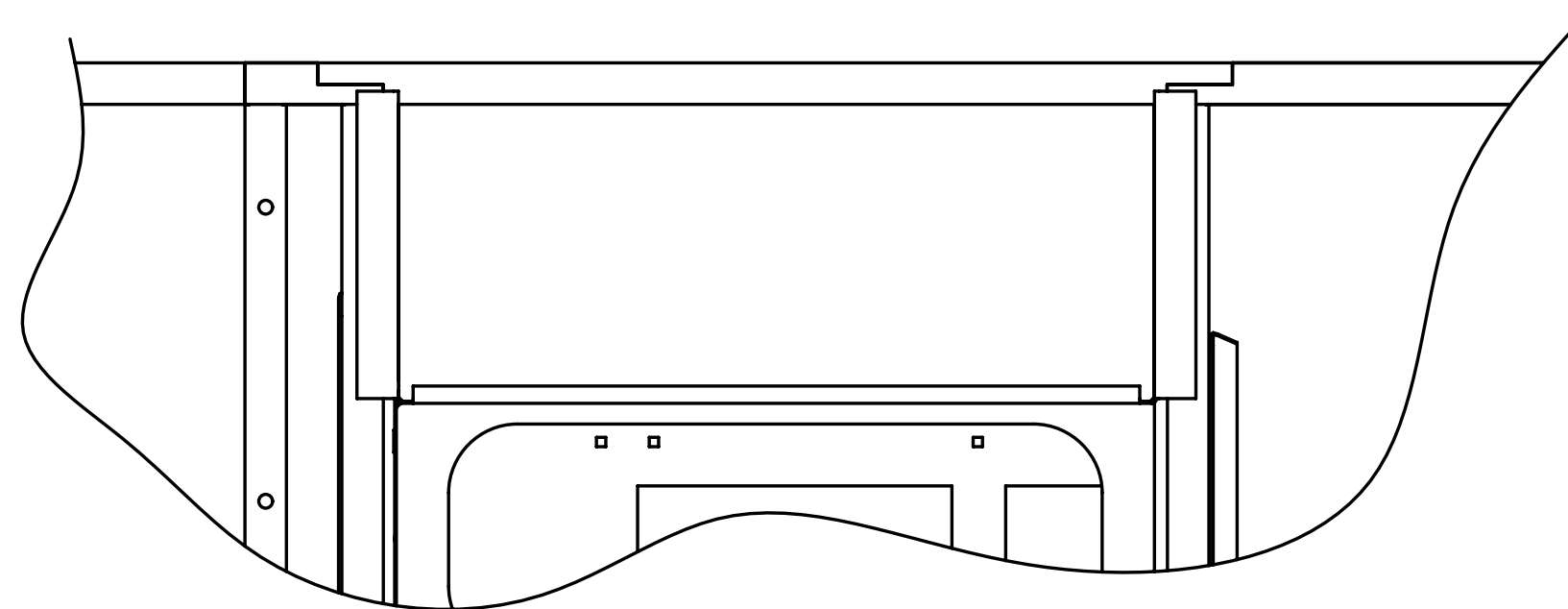


ANGLE-GENERATOR
122410-01-CHT

PANEL-COMPT
137350-01-CHT

PANEL-COMPT
137350-02-CHT

VIEW GF-GF

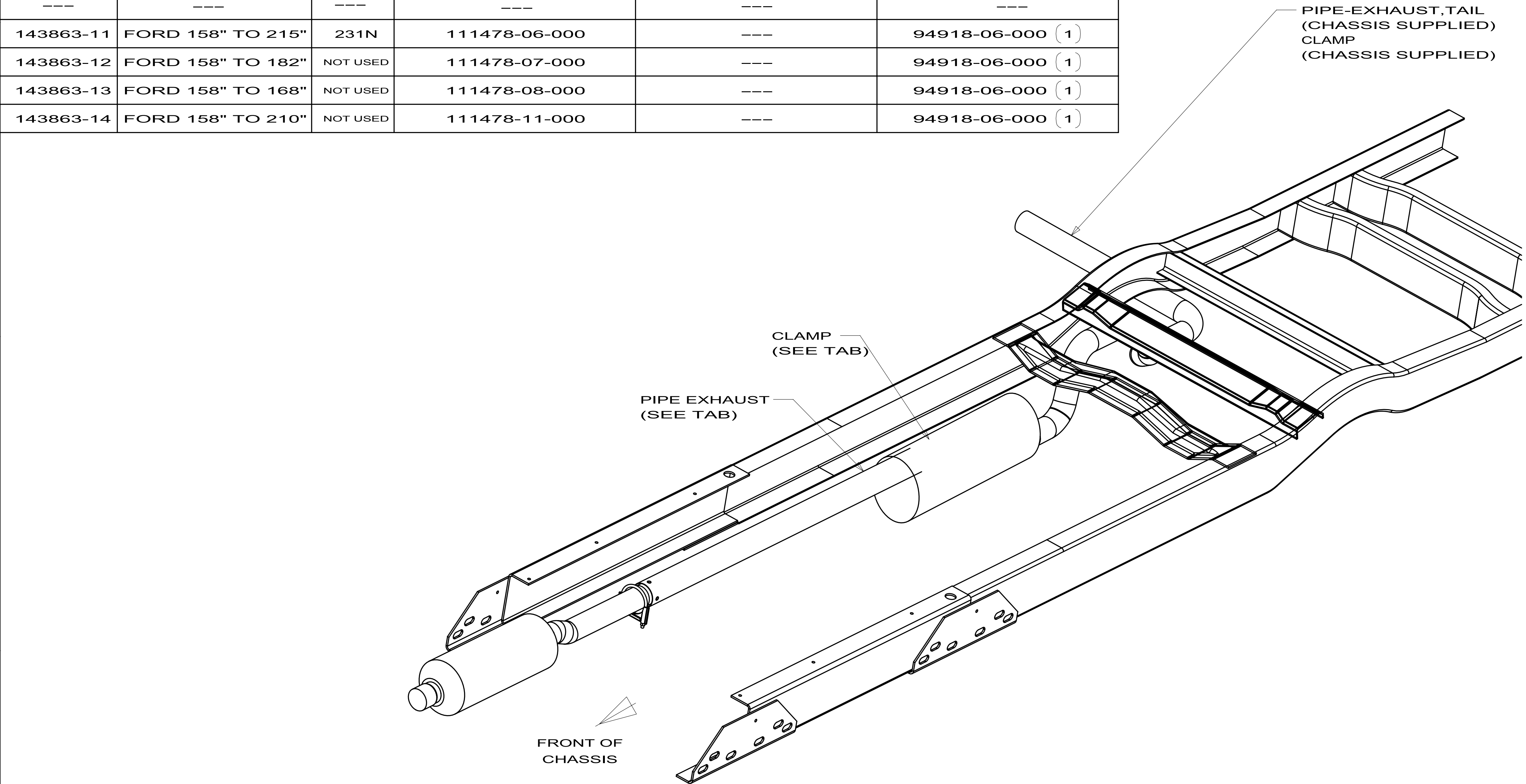


DETAIL GG

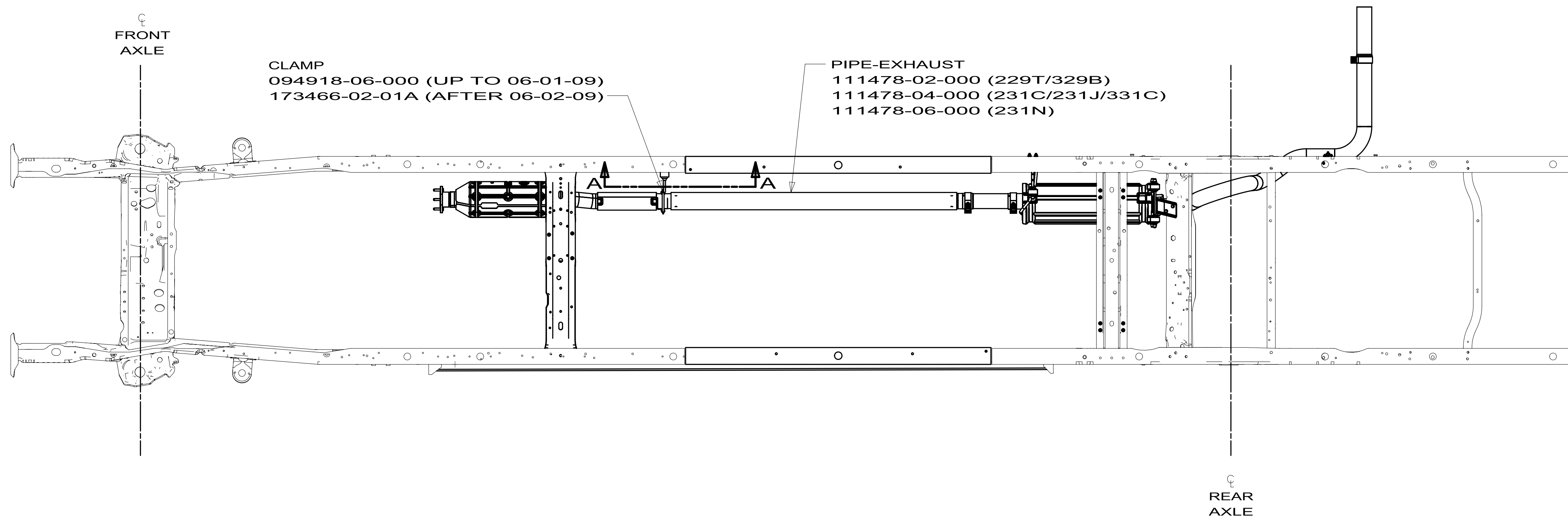
FIRST USED		
10 231N		
DO NOT SCALE DRAWING		
TITLE:		
FRAME ASM-CHASSIS,FORD		
SHEET 7	PART NO	REV
	172964	

8		7		6		5		4	
DWG NO	CHASSIS	MODEL	PIPE EXHAUST-GAS		PIPE EXHAUST-DIESEL		CLAMP (QTY)		
143863-01	FORD 158" TO 188"	NOT USED	1 11478-01-000		---		94918-06-000 (1)		
143863-02	FORD 158" TO 190"	229T/329B	1 11478-02-000		---		94918-06-000 (1)		
143863-03	FORD 158" TO 205"	NOT USED	1 11478-03-000		---		94918-06-000 (1)		
143863-04	FORD 158" TO 220"	231C/231J 331C	1 11478-04-000		---		94918-06-000 (1)		
143863-05	FORD 158" TO 216"	NOT USED	1 11478-05-000		---		94918-06-000 (1)		
143863-06	FORD 158" TO 188"	NOT USED	---		98762-13-000		94918-02-000 (2)		
143863-07	FORD 158" TO 190"	NOT USED	---		98762-14-000		94918-02-000 (2)		
143863-08	FORD 158" TO 205"	NOT USED	---		98762-15-000		94918-02-000 (2)		
143863-09	FORD 158" TO 220"	NOT USED	---		98762-25-000		94918-02-000 (2)		
---	---	---	---		---		---		
143863-11	FORD 158" TO 215"	231N	1 11478-06-000		---		94918-06-000 (1)		
143863-12	FORD 158" TO 182"	NOT USED	1 11478-07-000		---		94918-06-000 (1)		
143863-13	FORD 158" TO 168"	NOT USED	1 11478-08-000		---		94918-06-000 (1)		
143863-14	FORD 158" TO 210"	NOT USED	1 11478-11-000		---		94918-06-000 (1)		

RELEASE	REV A	DATE	DWG NO 143863
REV	ZONE	REVISION RECORD	DATE DFT-ORIG



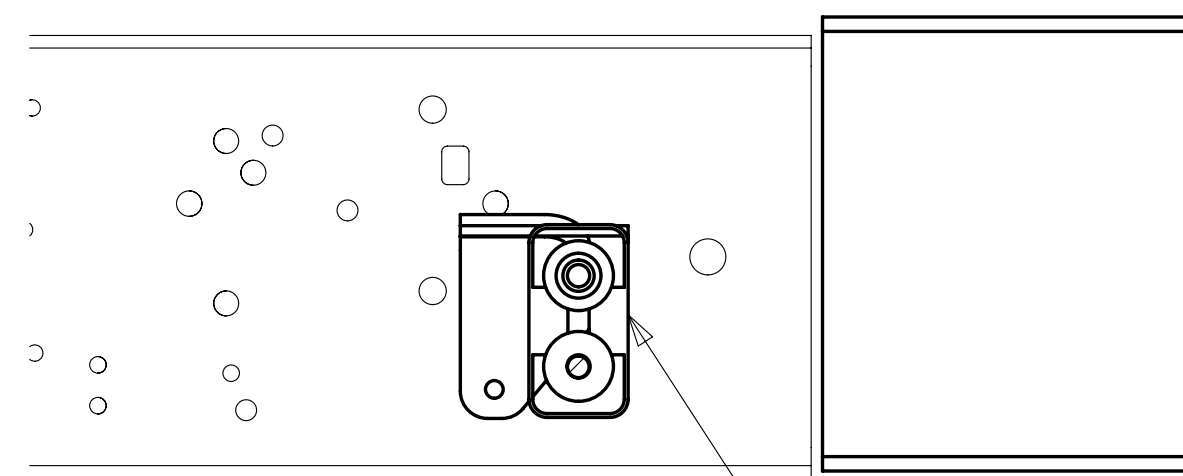
WINNEBAGO INDUSTRIES		COPYRIGHT 2009 WINNEBAGO INDUSTRIES, INC.	
DFT-ORIG	ORIG. DATE		
CHKD	ALL DIMENSIONS ARE IN MILLIMETERS		
P.E.			
M.E.	FIRST USED		
DSNR	92 FORD E350		
UNSPECIFIED TOLERANCES ARE:		MATERIAL:	
WHOLE DIM (X)	± 3.0		
ONE-PLACE (X.X)	± 1.5		
TWO-PLACE (X.XX)	± 0.50		
ANGLE	± 1°		
THIRD ANGLE PROJECTION			
DO NOT SCALE DRAWING			
TITLE: EXHAUST SYSTEM-INSTL			
SHEET 1 OF 1	PART NO 143863	REV	
REF:		1	



171834-05
229T/329B

171834-08
231N

171834-09
231C/231J/331C

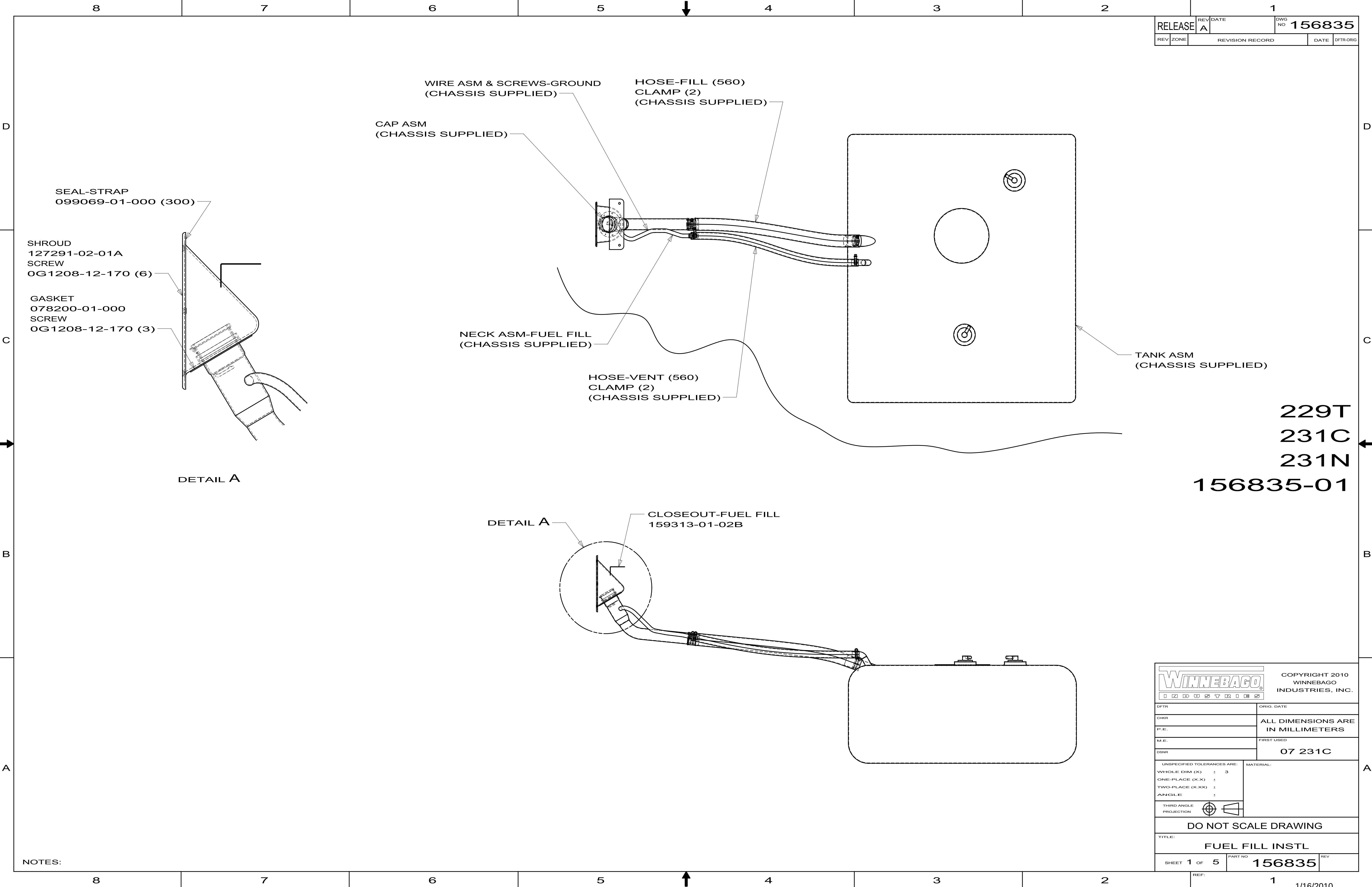


SECTION A-A

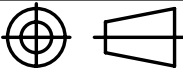
HANGER ASM-EXHAUST FORD
143811-01-000
HANGER ASM-TAILPIPE,FRONT
122392-21-02B
(USE ON 190" AND ABOVE WHEELBASES)
CLAMP-EXHAUST 3.00 HVY DUTY
094918-06-000

STRETCHED CHASSIS
EXHAUST BEHIND REAR AXLE

09 FD E450



RELEASE		REV	DATE	DWG	NO	156835
REV	ZONE	REVISION RECORD			DATE	DTFR-ORIG

WINNEBAGO® I N D U S T R I E S		COPYRIGHT 2010 WINNEBAGO INDUSTRIES, INC.	
DTFR		ORIG. DATE	
CHKR		ALL DIMENSIONS ARE IN MILLIMETERS	
P.E.			
M.E.		FIRST USED	
DSNR		07 231C	
UNSPECIFIED TOLERANCES ARE:		MATERIAL:	
WHOLE DIM (X) ± 3			
ONE-PLACE (X.X) ±			
TWO-PLACE (X.XX) ±			
ANGLE ±			
THIRD ANGLE PROJECTION			
DO NOT SCALE DRAWING			
TITLE:			
FUEL FILL INSTL			
SHEET 1 OF 5		PART NO	REV
		156835	

229T
231C
231J
231N
154290-05

154290-05

NUT
000D39-08-00T(6)

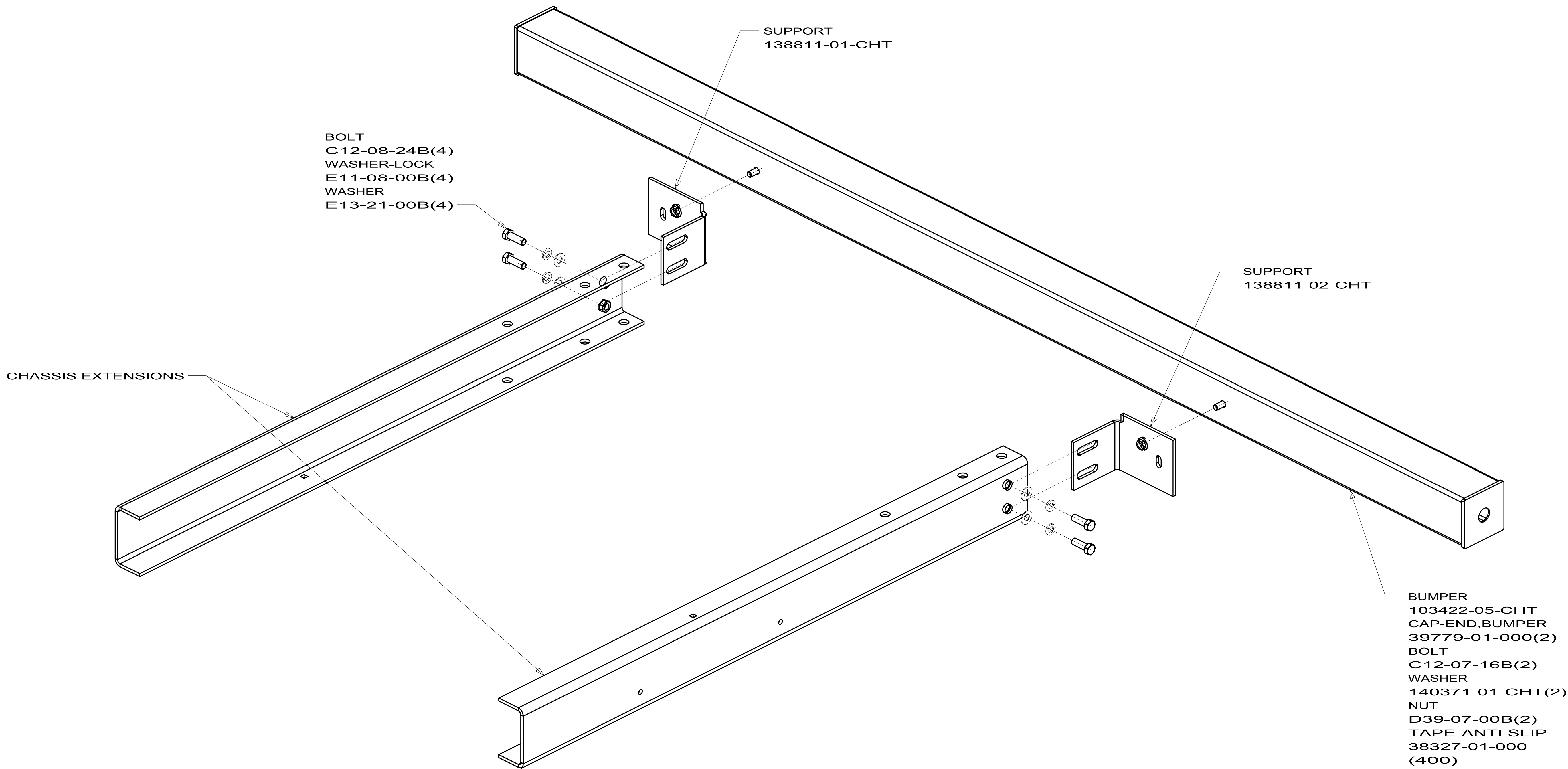
DRAWBAR ASM
170943-04-04B
LABEL-HITCH RATING,CLASS 3
172243-01-01A

WASHER
000E13-22-00T(12)

BOLT
000C26-08-24T(6)

SKID-PLATE ASM (2)
140441-05-02B

FIRST USED		
07 200-SERIES		
DO NOT SCALE DRAWING		
TITLE:		
HITCH INSTL		
SHEET 4	PART NO 154290	REV



135903-02-000

FIRST USED		
02 C-SERIES		
DO NOT SCALE DRAWING		
TITLE:		
BUMPER INSTL-REAR		
SHEET 1	PART NO 135903	REV

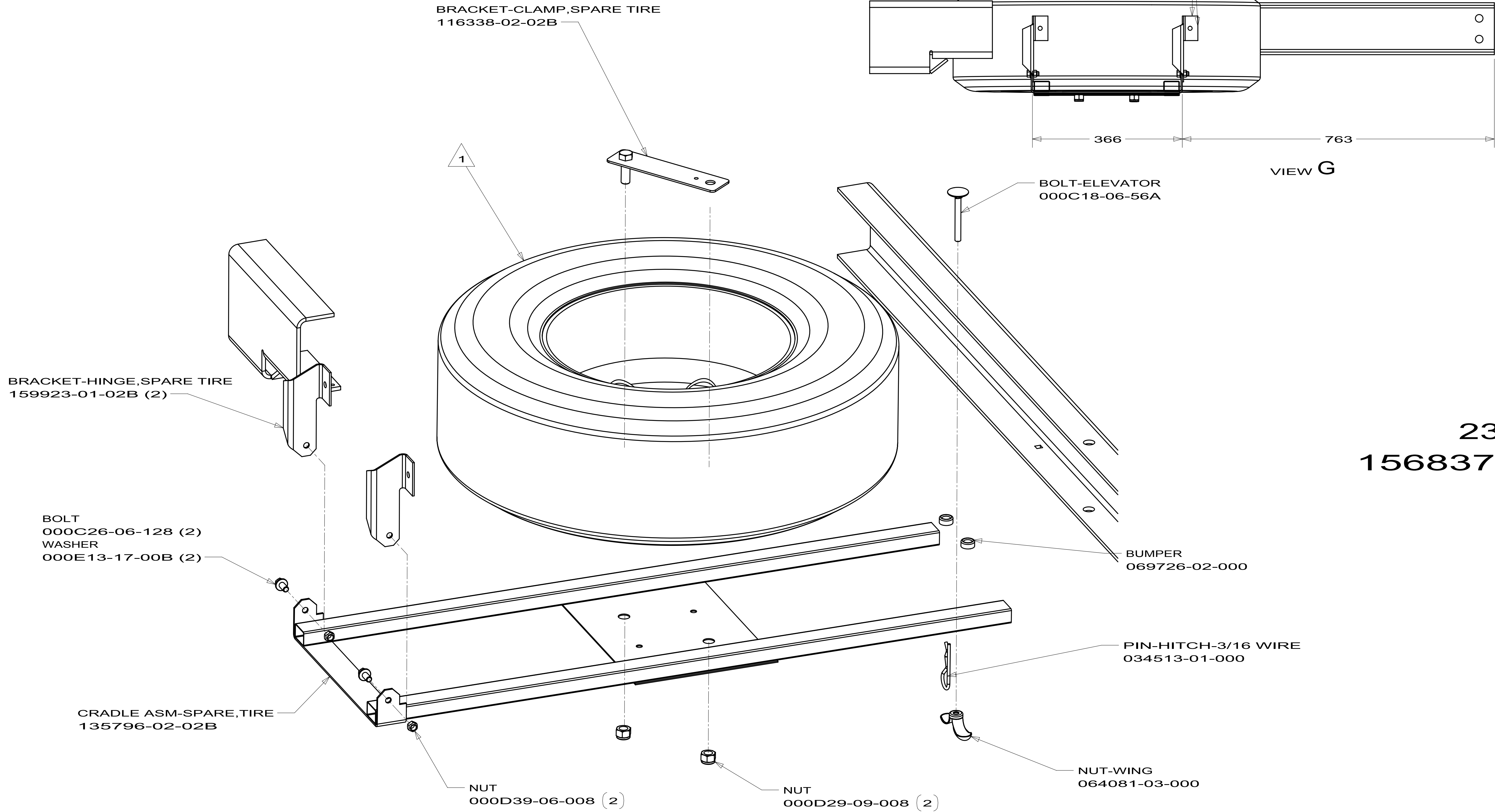
Spare Wheel and Tire Matrix
Chassis Model Year 2008 - Current
March 17, 2009

Chassis		Wheel		Wheel Part Number	Wheel Rating	Weight (lbs.)	Tire	Maximum Tire Rating	Brand	Tire Part Number	Weight (lbs.)
Dodge	3500 Sprinter 500 Series	Magnetto (Mercedes Benz) A 001 401 70 02 16 X 5.5, 6 bolt	CHASSIS SUPPLIED		Wheel not marked	27	LT215/85R16E	2680/2470 @ 80	Continental		27.1
	E350/E450 Super Duty 200,300 & 700 Series	Arvin Meritor 16 X 6, 8 bolt @ 6.5 8C2Z-1015-G	CHASSIS SUPPLIED		Wheel not marked	---	LT225/75R16E	2680/2470 @ 80	Michelin LTX M/S	083425-14-000	71
Ford	F53 16, 18 (2011 chassis) GVWR E26P	Hayes/Lemmerz (Boriem) 19.5 X 6.0 10 bolt 8U94-1015-BA	CHASSIS SUPPLIED		3750 @ 110	51.5	225/70R19.5G	3970/3750 @ 110	Continental HSR		60.8
	F53 18 (2009 chassis), 20.5, & 22K GVWR E30W,E32K D31E,D33C, D35J W/19.5 TIRE ONLY	Accuride 29875 19.5 X 6.75, 10 bolt 5U94-1015-AA	CHASSIS SUPPLIED		4000 @ 115	59	245/70R19.5F	4080/3970 @ 85	Goodyear G670		66
Workhorse	W16/W18 E30W	Maxion W0007492 19.5 X 6, 10 bolt	Steel	156482-02-000 Black	3750 @ 110	58.5	225/70R19.5F	3640/3415 @ 95	Michelin XRV	091673-07-000	52
	W20-22 7,500 GAWR-F D33C, E32K	Maxion W0002404 19.5 X 6.75, 8 bolt	Steel	118814-05-000	5000 @ 115	61	245/70R19.5F	F53 16, 18 (2011 chassis) GVWR E26P	Goodyear G670RV	102340-08-000	70
	W21/W22 8,000/8,500 GAWR-F D31E	Maxion W0002404 19.5 X 6.75, 8 bolt	Steel	118814-05-000	5000 @ 115	61	245/70R19.5G	4540/4410 @ 110	Goodyear G670RV	102340-09-000	70

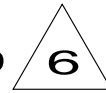
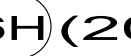
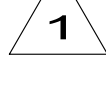
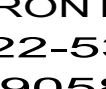
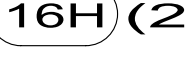
231N
156837-27-XXX

TAB-27,PG-28

FIRST USED			10 231N
DO NOT SCALE DRAWING			
TITLE:			SPARE TIRE COMPL
SHEET 17	PART NO	156837	REV



2010 AND UP WHEEL TRIM MATRIX

	TIRE AND WHEELS		WHEELCOVERS		WHEEL LINERS				CHASSIS-SUPPLIED PARTS IF ORDERED W/ALUMINUM WHEEL				
	TIRE/WHEEL Ø & WIDTH	WHEEL P/N & MFGR	WHEEL COVERS	VALVE EXTENSION	WHEEL LINERS	VALVE EXTENSION	STABILIZER	TORQ. WHEEL LINER	ALUMINUM WHEEL	HUB COVER	VALVE EXTENSION	STABILIZER	NUT COVER
CHEVY C BODY (14050) NOT USED	225/75R 16"X6.5"	ACCURIDE 29361 AFTERMARKET ACCURIDE 29588	109443-05	REAR:(4)77030-01 REMOVE COVER FOR ACCESS FRONT: (2)77030-01	110435-23-000	REAR INNER (2)95012-09  REAR OUTER (2)77030-10 FRONT (2)77030-10	(2)95012-07	PUSH ON (NA)	156797 -01 (2) FRONT -02 (2) REAR	156797 -03 (2) FRONT -04 (2) REAR	REAR INNER (2)77030-01	-	REPLACE NUTS W/ (32) 156797-06 NUT COVERS (32) 149749-05
DODGE SPRINTER 2500 BVAN 100 SERIES	245/75R 16"X6.5" 	ALUM DODGE 68004980AA STL(SPARE) DODGE 1J97SZ0AA	N/A	N/A	N/A	N/A	N/A	N/A	DODGE 68004980AA	DODGE 51045708AA (CENTER CAP)	N/A	N/A	BOLT/DODGE 68013444AA
SPRINTER 6 BOLT 16" (DUAL) 500/H SERIES	215/85R 16"X5.5"  	MAGNETTO MERCEDES A 001 401 71 02	N/A	N/A	154970-02	CHASSIS SUPPLIED REAR	-	PUSH ON (NA)	168919 -01 SET FRONT -02 SET REAR	168919 -03 SET FRONT -04 SET REAR	---	---	PART OF HUB COVER SET(S)
FORD A BODY F53 10 BOLT 19.5" E/D SERIES	245/70R 19.5"X6.75"   (2009)	ACCURIDE 29875	N/A	N/A	154672-01	REAR INNER (2)95012-09  REAR OUTER (2)77030-10 FRONT CAP ONLY	(2)95012-07	41-47 NM 30-35 LB/FT TORQUE	N/A	-	-	-	-
FORD A BODY F53 D/J SERIES	235/80R 22.5"X7.5"  	ALCOA DURA-BRITE 873400	N/A	-	-	-	-	-	- 	KIT WITH ATTACHMENT 150723-01 	REAR INNER (2)77030-10 	-	-
FREIGHT LINER (REAR ENGINE) P/R SERIES    	255/80R 22.5"X8.25" 295/80R 22.5"X8.25"  	ACCURIDE 50487	N/A	N/A	-	REAR INNER (2)77030-11 REAR OUTER (2)77030-10 FRONT (2)77030-01	(2)95012-07	41-47 NM 30-35 LB/FT TORQUE	(2)133429-03 (2)133429-04 ACCURIDE 29697 IFS ONLY FRONT ACCURIDE 29560	FRONT FCCC (2)A22-53422-000 129058-15(2) 129058-16/19 129058-17/20 OR 129058-21/22 	REAR  INSIDE 129058-06 (2)	129058-18 (2) 	(40)129058-10
FORD C BODY E350/450 200/300/700 SERIES	225/75R 16"X6"  	(ARVIN MERRITOR) FORD 8C24-1015-H	109443 -05-000	REAR: FORD 1/2" FRONT: FORD 1/2" (LIKE 077030-10) REMOVE COVER FOR REAR ACCESS	110435-23-000	REAR INNER (2)95012-05  REAR OUTER AND FRONT CHASSIS SUPPLIED 1/2"(77030-10)	(2)95012-07	PUSH ON (NA)	(2)149749-01 (2)149749-02 (UP TO 06-22-09) (2)149749-07 (2)149749-08 (AFTER 06-23-09)	156797 -03(2)FRONT -04(2)REAR	REAR INNER (2)77030-01	---	REPLACE NUTS W/ (32) 149749-06 NUT COVERS (32) 149749-05
FORD A BODY F53 16K 2009 E26P 18K (2011) E/D SERIES	225/70R 19.5"X6.0"   (2011)	(HAYES LAMMERZ) FORD 8U94-1015-BA	N/A	N/A	154672-02	REAR INNER (2)95012-09  REAR OUTER (2)77030-10 FRONT CAP ONLY	(2)95012-07	41-47NM 30-35 LB/FT	N/A	---	---	---	---
FRONT ENGINE FREIGHT LINER J SERIES	225/80R 22.5"X8.25"  	ACCURIDE 50487	N/A	N/A	145580-05	REAR INNER (2)77030-11 REAR OUTER (2)77030-10 FRONT (2) 77030-01	(2)95012-07	41-47NM 30-35 LB/FT TORQUE	(2)133429-03 (2)133429-04 ACCURIDE 29697	FRONT FCCC(2) A22-53422-000 129058-15(2) 129058-17/20	REAR  INSIDE 129058-06 (2)	129058-18 (2) 	(40)129058-10

5 WINNEBAGO INSTALLED.

4 / FREIGHTLINER LOGO NOT FOR WORKHORSE APPLICATION.

3 / NO WINNEBAGO 8 BOLT HUB COVER WITHOUT PORT.

2 / BRACKET-17/20 FOR 145 AXLE, BRACKET-21/22 FOR 144 AXLE.

1 CHASSIS SUPPLIED

SOME PARTS UNIQUE TO CHASSIS MFGR., NO WINNEBAGO P/N

CONTINUED ON NEXT PAGE

FIRST USED		07 MOTORHOMES	
DO NOT SCALE DRAWING			
TITLE:			
WHEEL INSTL			
SHEET 1	PART NO	159483	REV

2010 WHEEL TRIM MATRIX CONTINUED

[illegible]

87654321

159483

DWG NO

FOR WINNEBAGO MODEL YEAR 2007, WINNEBAGO WILL SUPPLY LUG WRENCHES WHICH ARE SUPPLIED TO WINNEBAGO WITH THE CHASSIS. (CURRENTLY, FORD E350/E450 CUTAWAY, DODGE SPRINTER, AND FORD F53 19.5" RAIL) IN ADDITION, C-BODY CUTAWAY CHASSIS WITH ALUMINUM WHEEL OPTION, FORD CHASSIS SUPPLIED LUG WRENCH WHICH NO LONGER FITS ALUMINUM WHEEL FASTENERS WILL BE STORED UNDER PART NUMBER 112358-02-000. WINNEBAGO WILL PROVIDE LUG WRENCH AND LEVERAGE BAR TO FIT ALUMINUM WHEEL HARDWARE. WINNEBAGO WILL PROVIDE 112358-02-000 WITH STANDARD CHEVY STEEL WHEEL CHASSIS.

2007 AND UP

LUG WRENCH APPLICATION MATRIX

OTHER APPLICATIONS LISTED FOR WRENCH FIT REFERENCE

	CHASSIS	LUG WRENCH	LEVERAGE BAR	TORQUE FT/LBS
* NOT USED	CHEVY CUTAWAY G3500 8 BOLT GMT610 8 BOLT	112358-02	---	110-140
* NOT USED	CHEVY CUTAWAY ALUMINUM WHEELS G3500/GMT610 8 BOLT	80208-06	80208-02	140
* 100/500/H SERIES (1KB) (1KD) (1KM)	DODGE SPRINTER 16" 6-BOLT	CHASSIS SUPPLIED (FLOOR COMPT. @ PASS. FEET)	CHASSIS SUPPLIED	140 (130-150)
* 200/300/700 SERIES (16C) (16Y)	FORD CUTAWAY E350SD/E450SD 8 BOLT	CHASSIS SUPPLIED	---	140
* 200/300/700 SERIES (16C) (16Y)	FORD CUTAWAY ALUMINUM WHEELS E350SD/E450SD 8 BOLT	80208-06	80208-02	140
* E/D SERIES (16H) (16K)	FORD RAIL F53 10 BOLT 19.5"	CHASSIS SUPPLIED	---	140
D/J SERIES (16L) (16Z)	FORD RAIL F53 8 BOLT 22.5" ALUMINUM	80208-04	80208-05	450-500
	FREIGHTLINER 10 BOLT NOT USED	80208-04	80208-05	450-500
E26P/E30W (1PJ) (1PL)	WORKHORSE W16/18 10 BOLT 19.5"	80208-06	80208-02	150 (145-155)
E/D/J SERIES (1PE) (1PR) (1PS) (1PU) (1PV)	WORKHORSE W20-25 SERIES AND UFO 8 BOLT	80208-04	80208-05	450-500

87654321

07 MOTORHOMES

DO NOT SCALE DRAWING

TITLE:
WHEEL INSTL

SHEET 3PART NO 159483REV

13/16/2010

KEY			109443-05-000
	PART NUMBER	U/M DESCRIPTION	VENDOR NO.
	098532-01-700	EA COVER-FAKE LUG NUT (PLASTIC)	SHAU-LNC
	109443-05-700	EA WHEEL COVER - 16"SS EA=1	SHFM16-CVR

KEY	PART NUMBER	U/M	DESCRIPTION	110435-23-000
				VENDOR NO.
	110435-01-711	EA	DECAL-CENTER CAP- 2" - QTY 2	DIAMOND/2 PER BAG
	110435-23-700	EA	COVER/WHEEL - FRONT - 1 ONLY	FL60-59-FWC
	110435-23-701	EA	COVER/WHEEL - REAR - 1 ONLY	RWCFL60-59