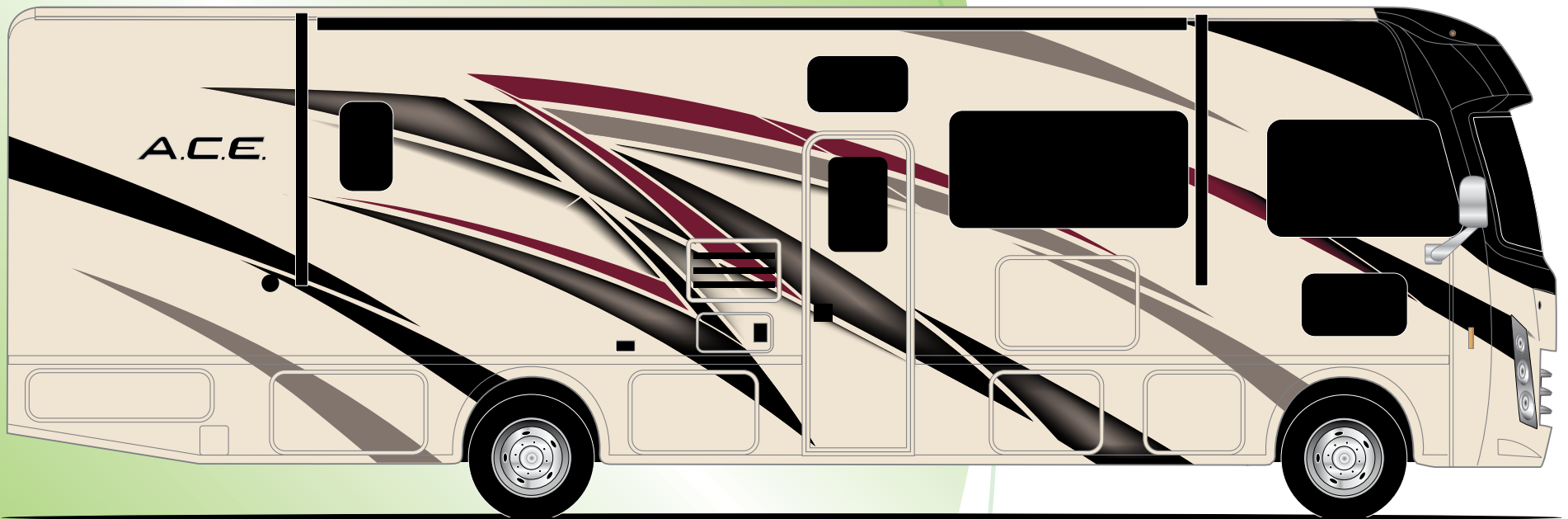


A.C.E.®

Details for Floor Plan

33.1



Model Year 2022



Made to fit.



Made to fit.

Features, components, and appliances depicted in this series of drawings may or may not be installed on your motorhome as a consequence of the features, components, and appliances being optional equipment and/or equipment not available for installation on the motorhome model you purchased. Actual features, components, appliances, and system details are subject to change. Thor Motor Coach, Incorporated reserves the right to make changes, substitutions, and improvements to its motorhomes at any time without prior notification.

The information contained in these systems drawings are for illustrative purposes only and closely represent the systems of the motorhome model and floor plan at the time of publication. The illustrations of components and their locations shown in this document may be scaled, moved, modified, or eliminated in an attempt to enhance clarity of other features and system details, and as a consequence, may not accurately represent the location, features, components, and appliances associated with actual Thor motorhome models and floor plans.

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Consult with your selling dealership or contact Thor Motor Coach, Customer Care directly with questions regarding features and operations of any component or system of your motorhome.

Thor Customer Care can be reached by calling Toll Free: 877-855-2867, M-F, 8:00a-5:00p (EST). Written requests for information can be sent to:

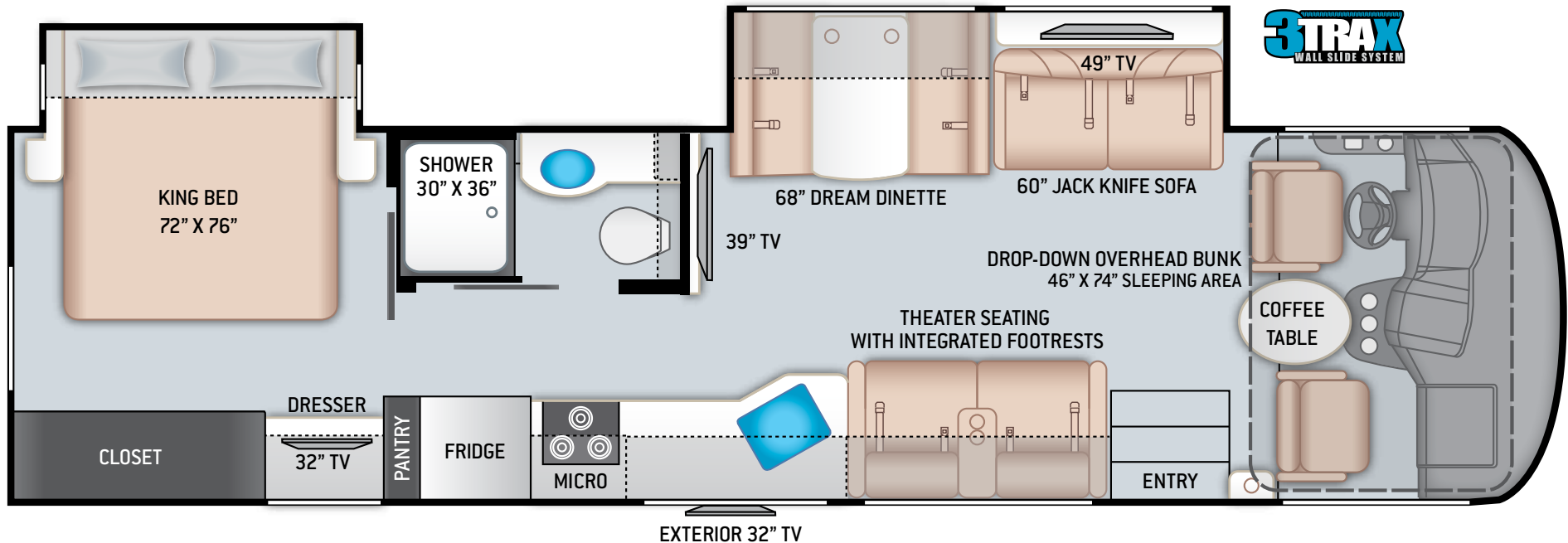
Thor Motor Coach
Attn: Customer Care
PO Box 1486
Elkhart, IN 46515-1486

Include the model, year, and Vehicle Identification Number (VIN) of your motorhome with your request.

A.C.E. 33.1

Disclaimer Statement
Model Year 2022

Specifications and illustrations represent TMC Floor Plans for Model Year 2022: May, 2021 - May, 2022
and are subject to change



SPECIFICATIONS

Chassis & Drive Train: **Ford F-53**
 GVWR: **20,500 pounds**
 GCWR: **26,000 pounds**
 Overall Length: **34 feet, 8 inches**
 Overall Height: **12 feet, 2 inches**
 Exterior Width (excluding mirrors): **99 inches**
 Wheelbase: **228 inches**
 Interior Height: **84 inches**
 Interior Width: **96 inches**
 Square Footage: **N/A**

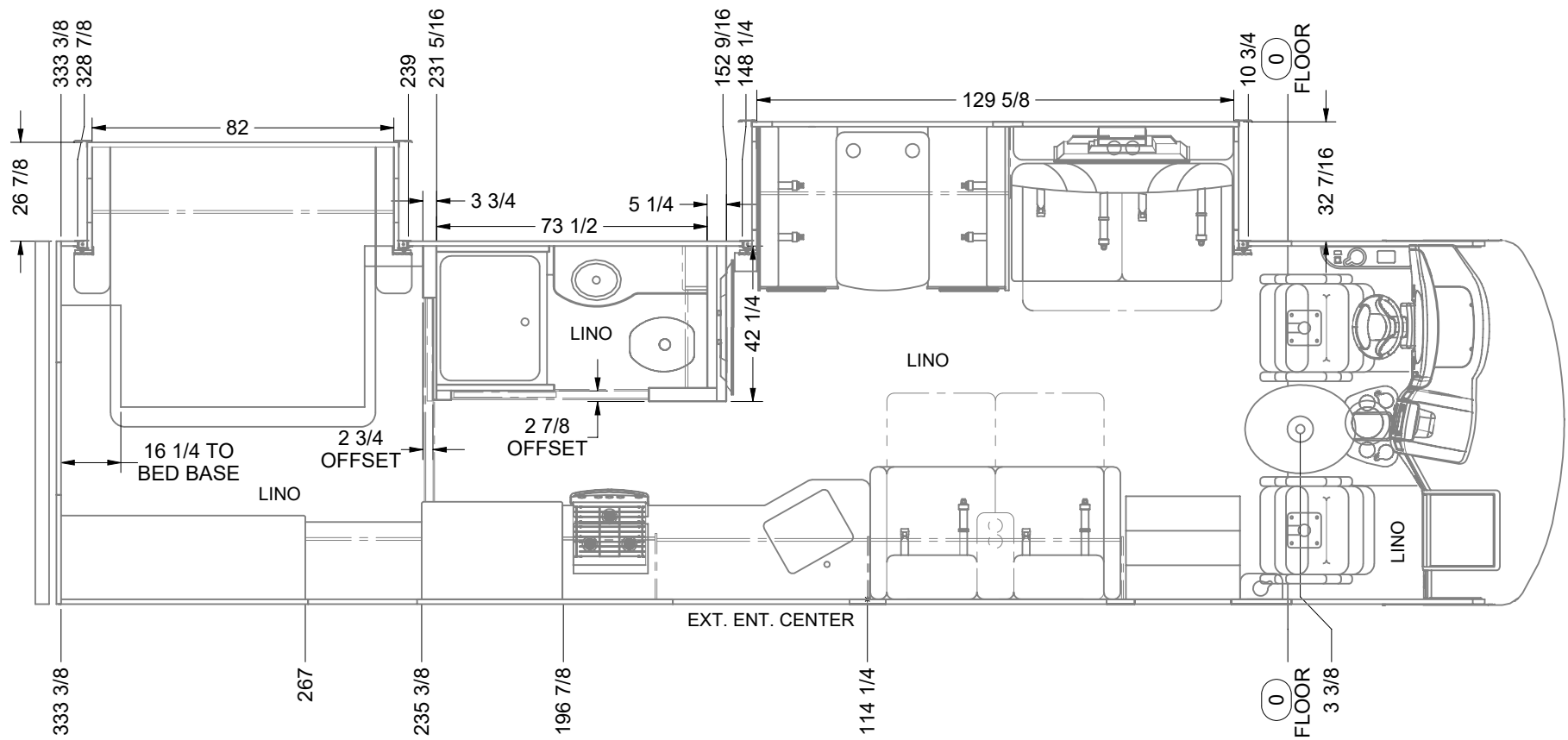
Exterior Storage Capacity: **127 cubic feet**
 Water Heater: **6 Gallons**
 Furnace: **35,000 BTU (LP)**
 A/C: **13.5K BTU (Front), 13.5K BTU (Rear)**
 Fuel Tank Capacity: **80 gallons**
 Propane Tank Capacity: **88 pounds**
 Hitch/Tongue Rating: **8,000/500 pounds**
 Seating Capacity (Seat Belts): **8**
 Sleeping Capacity: **6**
 Holding Tank Capacities (gallons): **Fresh - 50, Gray - 40, Black - 40**

A.C.E. 33.1

Floor Plan

Model Year 2022

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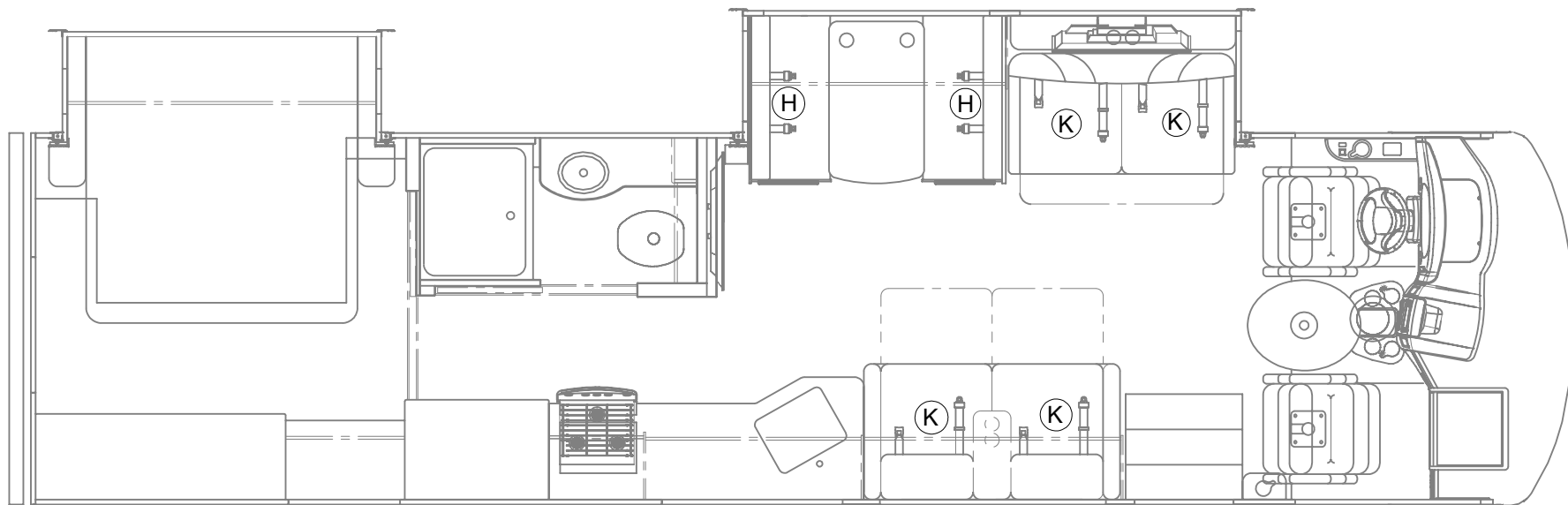
Dimensions

Model Year 2022

TFP0916-04: 04/13/2021

1 of 2

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SEAT BELT DETAIL

SEAT BELT	STD QTY.	TMC #	PART LENGTHS		
			COMBINED	TONGUE	BUCKLE
H	2	0437484	72"	54"	18"
I	0	0437485	84"	60"	24"
J	0	0437486	96"	66"	30"
K	4	0437487	108"	72"	36"
L	0	0437488	120"	78"	42"

NOTE: 1) WHEN MEASURING SEAT BELT LENGTHS, MEASURE FROM CENTER OF THE FASTENER HOLE ON THE D-RING TO THE OPPOSITE END OF TONGUE OR BUCKLE SECTION.
2) SEE FLOORPLAN FOR OPTIONAL FURNITURE AND ALTERNATE SEAT BELTS USED.

A.C.E. 33.1

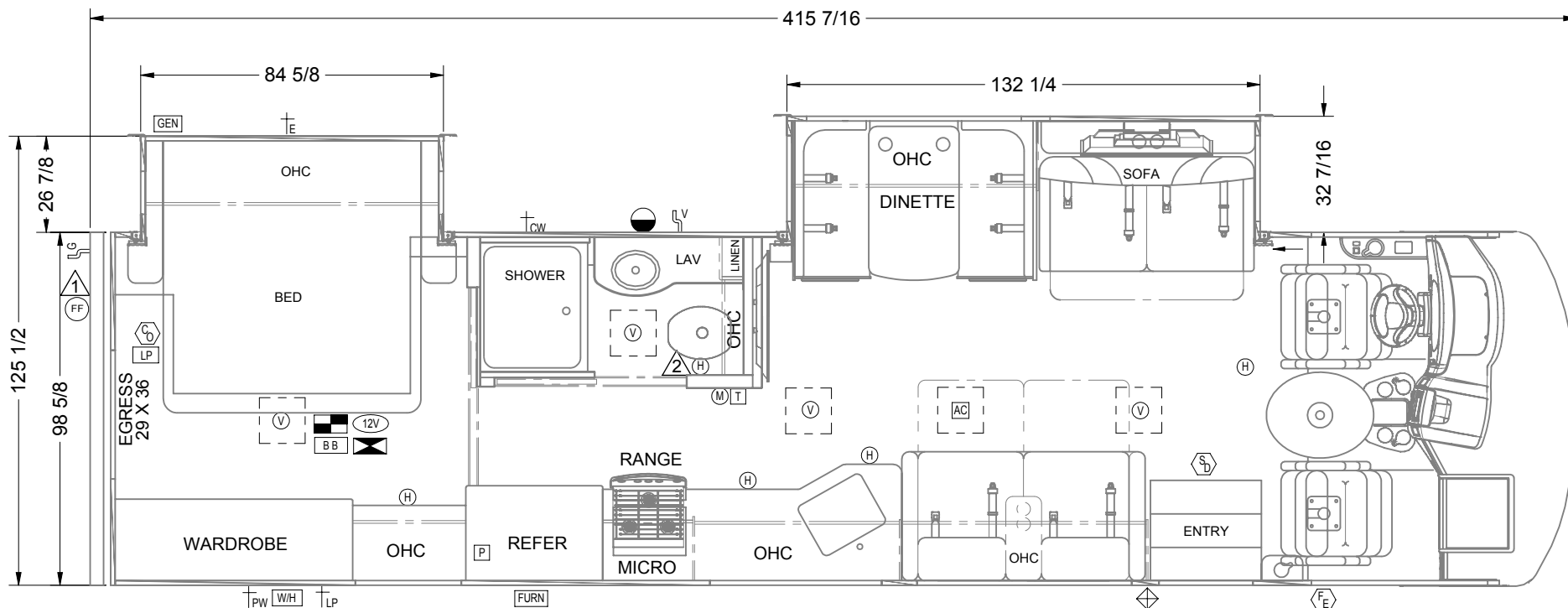
Seat Belts

Model Year 2022

TFP0916-04: 04/13/2021

2 of 2

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NOTES:

1. POWER CORD EXPOSED A MINIMUM OF 25 FEET.
2. INTERIOR FINISH MATERIAL CONSISTS OF A FLAME SPREAD RATING LESS THAN 200.
3. INTERIOR TEXTILE MATERIALS CONFORM TO FMVSS 302.
4. UNIT BUILT TO LATEST ANSI/NFPA CODES
5. VERTICAL CLEARANCE BETWEEN RANGE BURNERS & COMBUSTIBLE MATERIALS: 21-1/2"
6. 300 SQUARE FEET
7. POWER CORD ENTRANCE IS WITHIN 15 FT. OF REAR OF VEHICLE.
8. DRAINAGE EXIT IS WITHIN 22 FT. OF REAR OF VEHICLE.

CODE SYMBOLS

SMOKE DETECTOR	ROOF VENT	INSIGNIA RVIA & STATE	BREAKER BOX
CARBON MONOXIDE DETECTOR	WATER PUMP	VIN IDENTIFICATION	CONVERTER/12V FUSE BLOCK
PROPANE DETECTOR	FURNACE	SEWAGE DRAIN	AC/DC LOAD CENTER
FIRE EXTINGUISHER - 10 BC	WARM AIR REGISTER	PROPANE GAS INLET	12V 12 VOLT CONVERTER/CHARGER
GENERATOR EXHAUST	THERMOSTAT	ELECTRICAL INLET	12V 12 VOLT INVERTER
VEHICLE EXHAUST	WATER HEATER	CITY WATER INLET	12V 12 VOLT INVERTER/CHARGER
AIR CONDITIONER	GENERATOR	POTABLE WATER INLET	
RANGE VENT	MONITOR PANEL	FUEL FILL	

A.C.E. 33.1

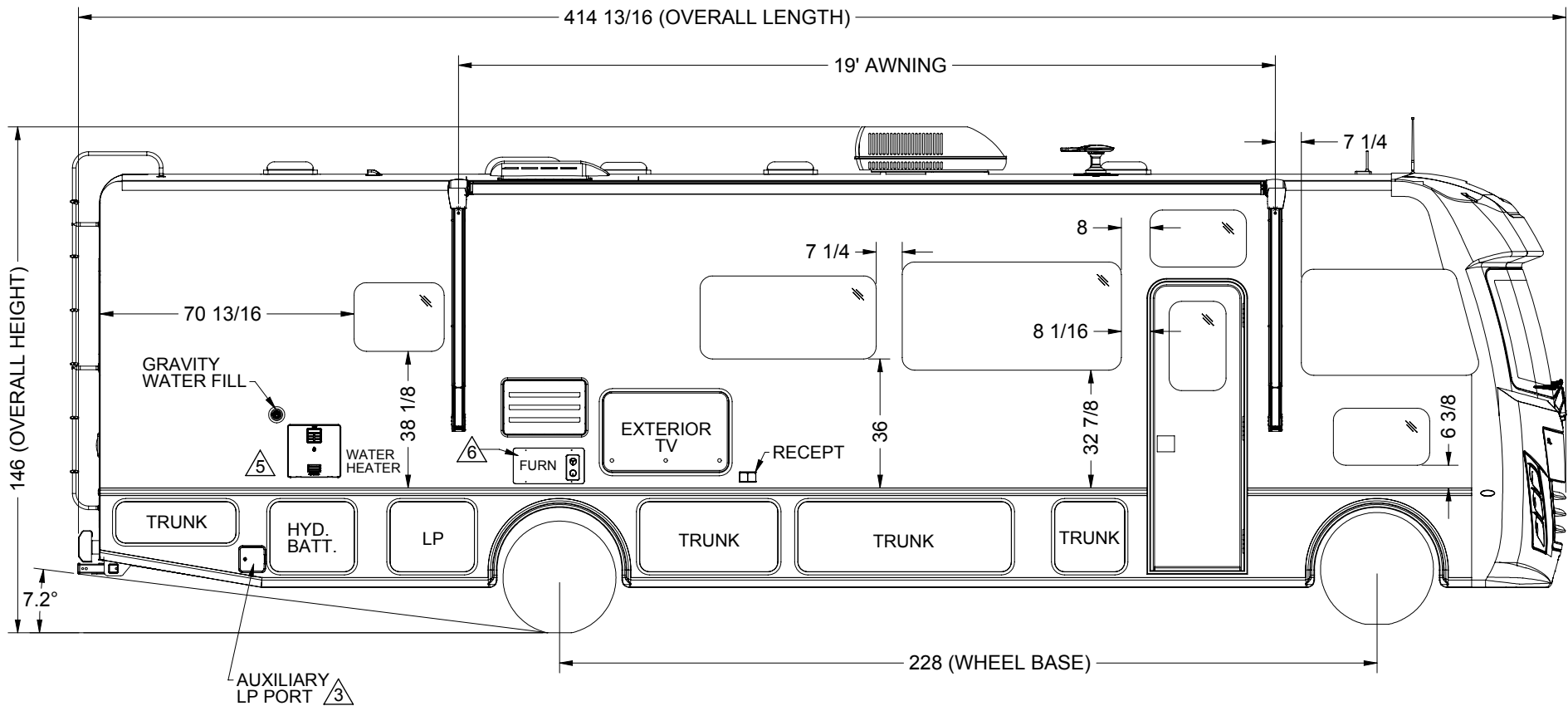
Safety Layout

Model Year 2022

TSLO221-02: 06/17/2020

1 of 1

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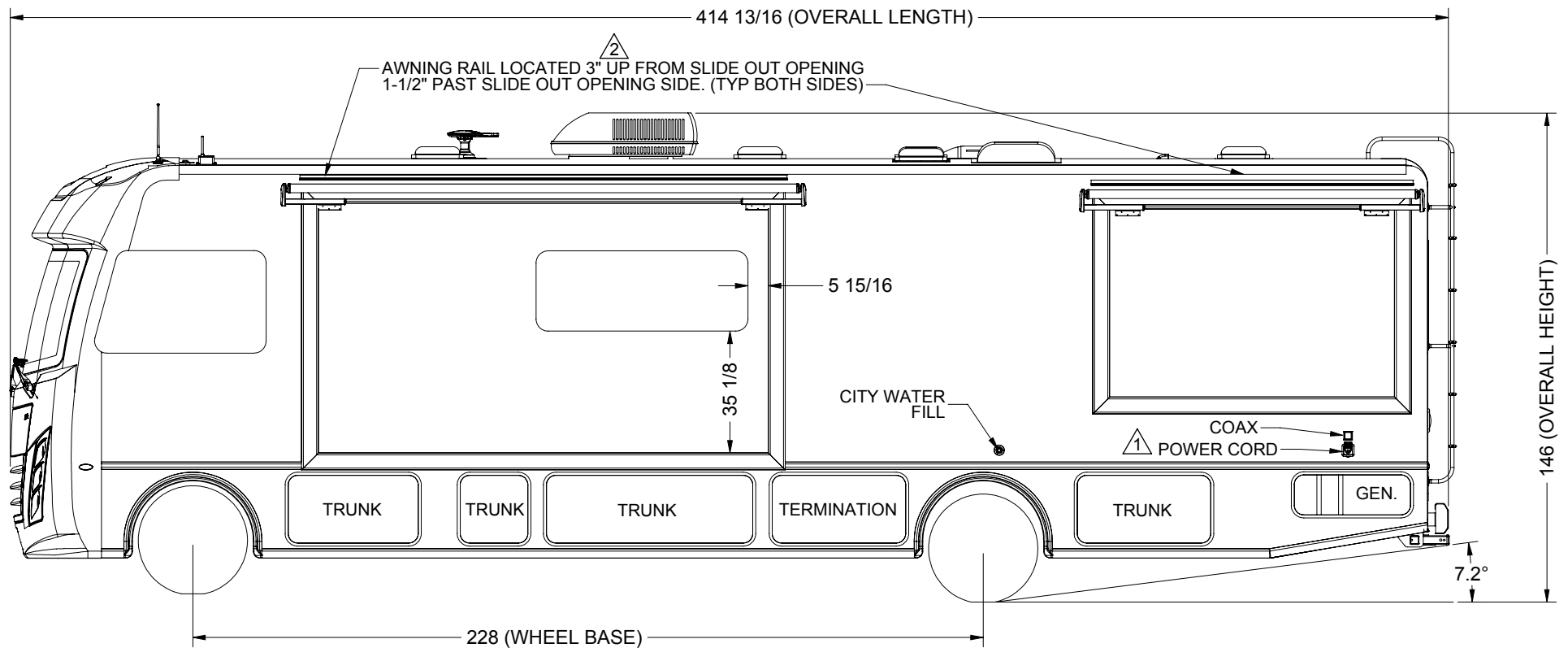
Right Side Elevation

Model Year 2022

TEX0475-06: 12/30/2021

1 of 3

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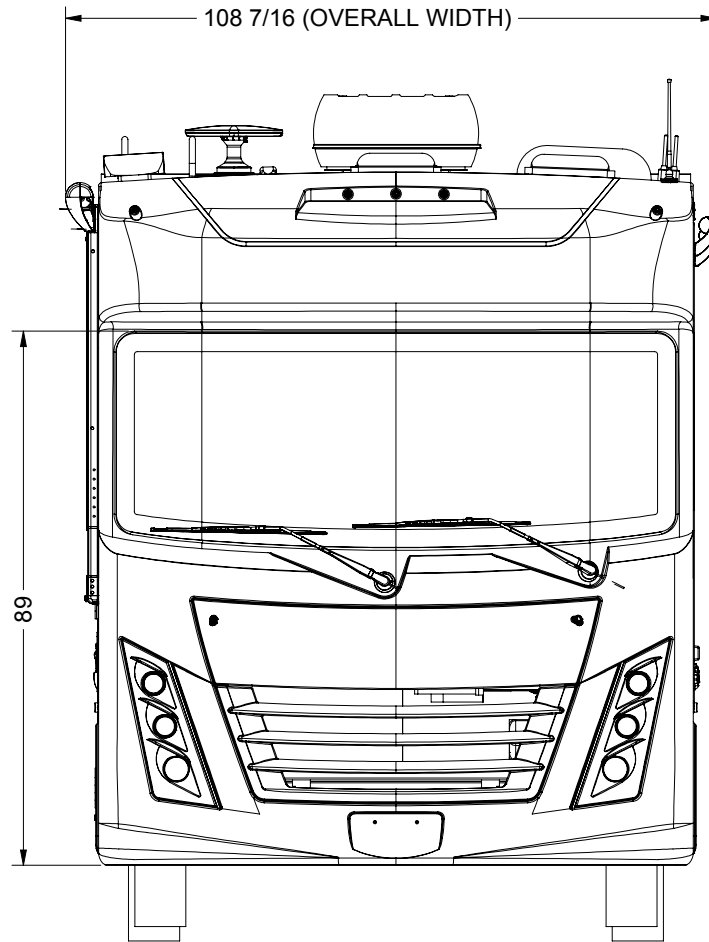
Left Side Elevation

Model Year 2022

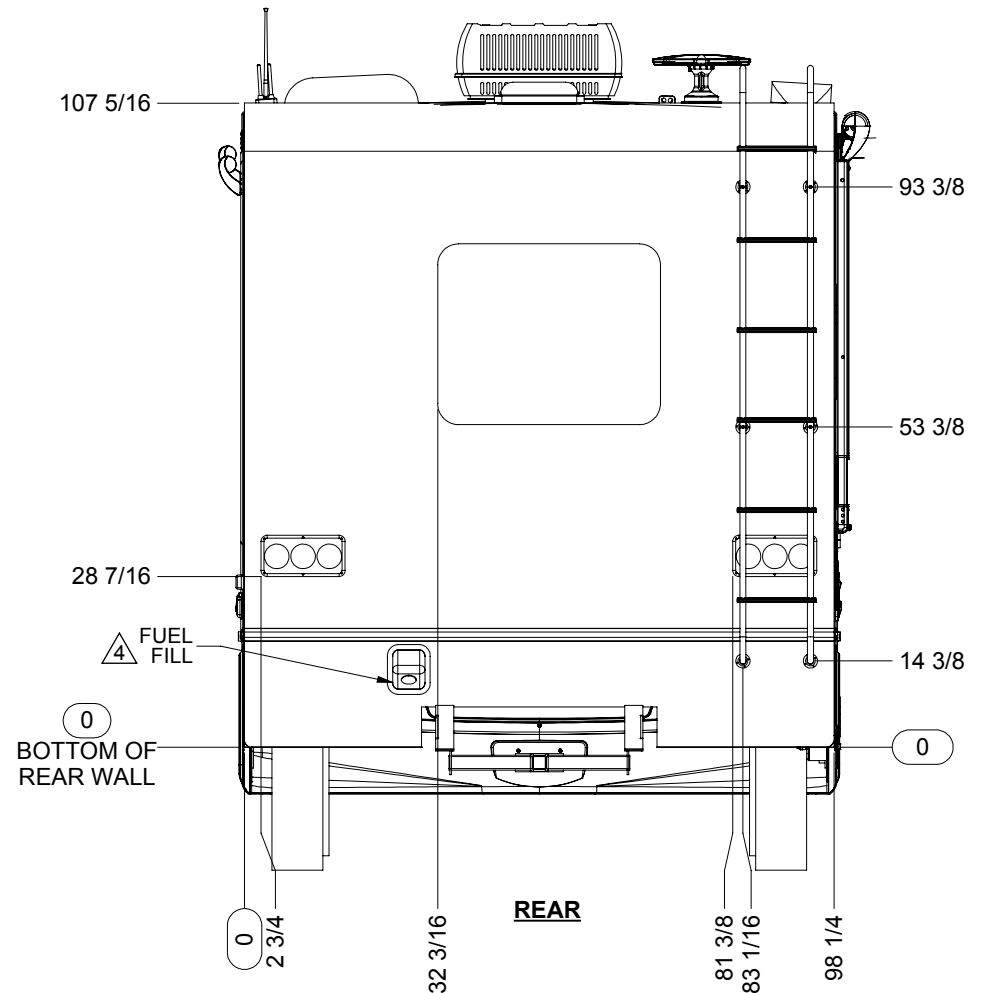
TEX0475-06: 12/30/2021

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FRONT



REAR

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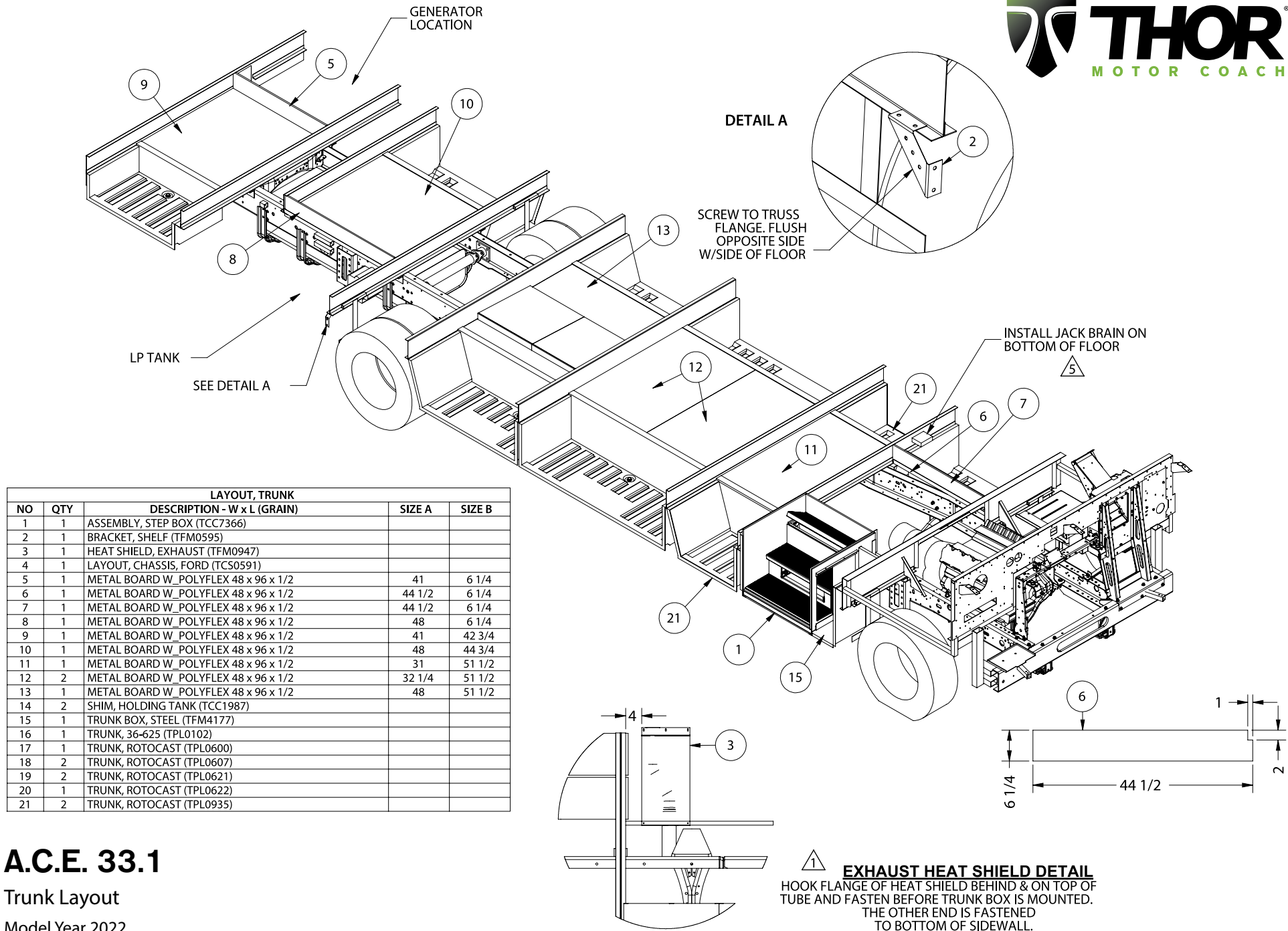
Front/Rear Elevations

Model Year 2022

TEX0475-06: 12/30/2021

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Trunk Layout

Model Year 2022

TTL0401-06: 02/26/2020

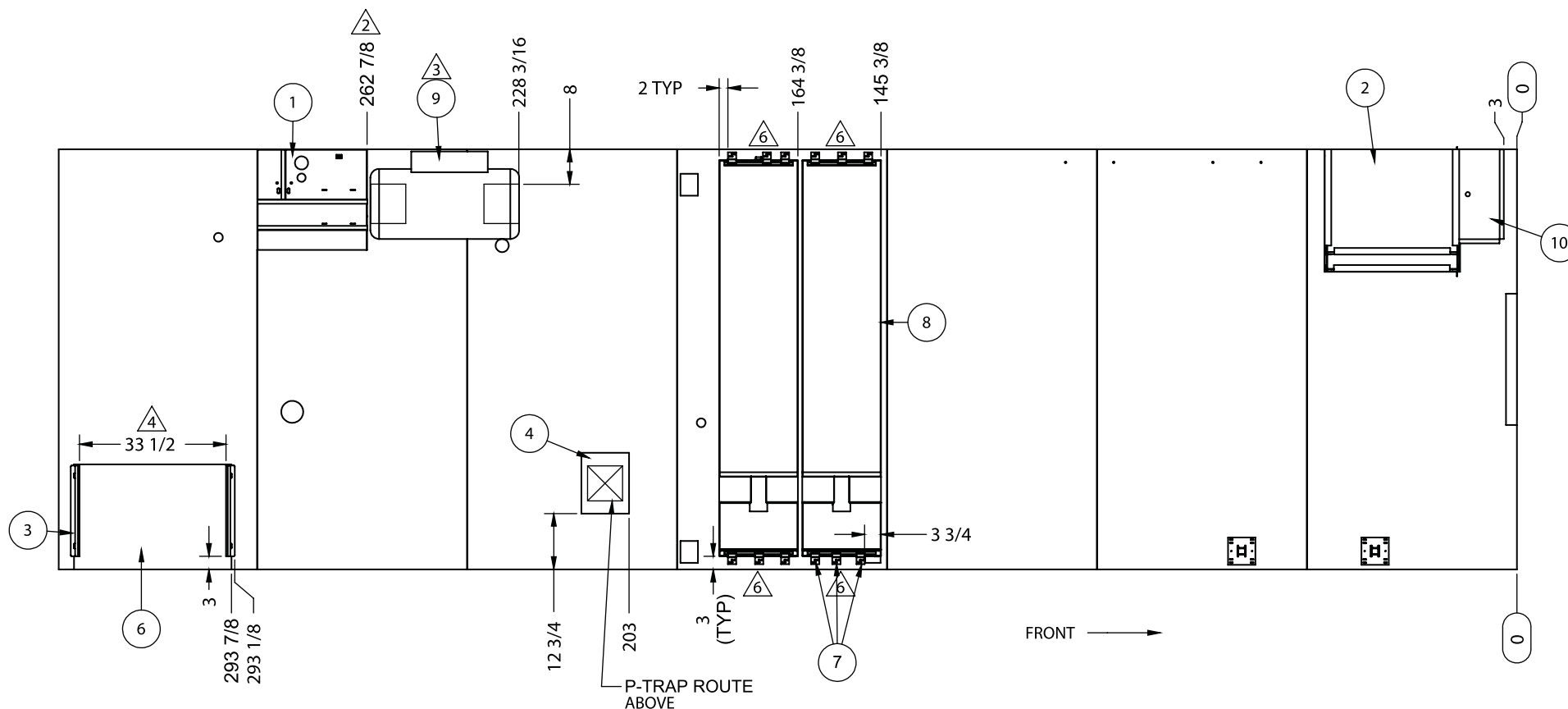
1 of 2

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TANKS AND TRUNKS INSTALLATION INSTRUCTION:

1. AFTER FLOOR IS SET, POSITION TANKS AND TRUNK ACCORDING TO DIMENSIONS.
2. PLACE TANKS BETWEEN CHASSIS AND STRAP REINFORCEMENT.
3. POSITION TANKS ACCORDING TO DIMENSIONS ABOVE.
4. FASTEN TANKS TO FLOOR USING J-BRACKETS AND (3) 1/4 X 1-1/2 FLANGED HEX HEAD SELF-DRILLING SCREWS FOR EACH BRACKET.



A.C.E. 33.1

Trunk Layout

Model Year 2022

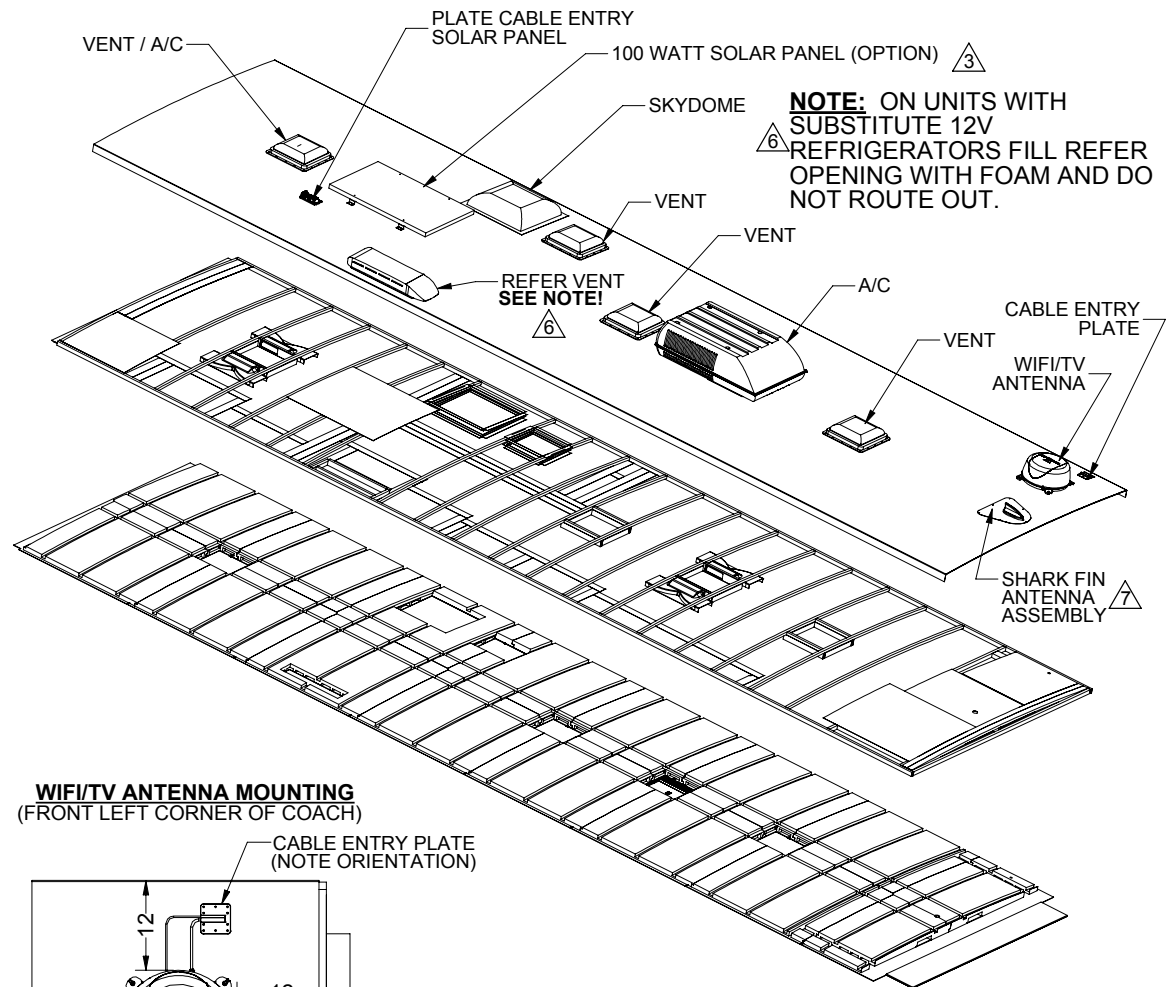
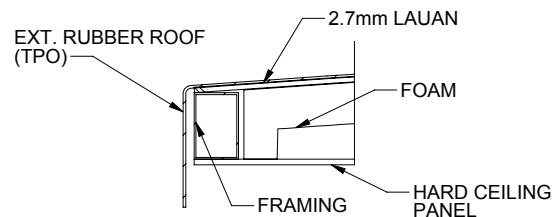
TTL0401-06: 02/26/2020

2 of 2

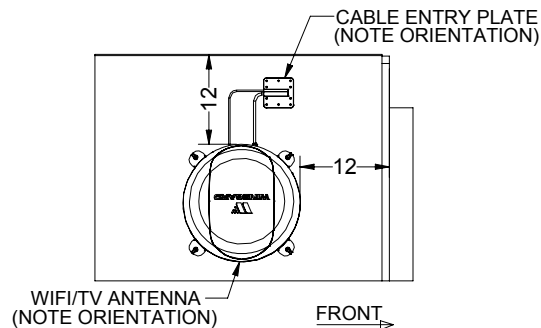
BELOW FLOOR ASSEMBLY		
NO	QTY	DESCRIPTION - W x L (GRAIN)
1	1	ASSEMBLY, BATTERY BOX (TFM1266)
2	1	ASSEMBLY, STEP BOX (TCC7366)
3	2	BRACKET, GENERATOR (TFM2341)
4	1	COVER, P-TRAP (TPL0614)
5	1	FLOOR, UNIT (TFL2060)
6	1	HEAT SHIELD, GENERATOR (TFM1351)
7	12	J-BRACKET (TFM1386)
8	1	SPIN FITTING LOCATIONS (TDW0837)
9	1	TANK, LP (0442042) 88lb lp
10	1	TRUNK BOX, STEEL (TFM4177)

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BOM TOTAL			
QTY	DESCRIPTION	EXTENDED	U/M
1	100 WATT SOLAR PANEL	1	EA
1	4G CONNECT 2.0 WIFI ANTENNA CABLE ENTRY PLATE	1	EA
1	AC	1	EA
13	AC VENT (LOUVERED)	13	EA
8	AMOCO STRIP, 1/4" x 8 1/2" x 8' (0100119)	8	EA
2	ASSEMBLY, AC VENT (TLM0091)	2	EA
3	BACKER (TLM0033)	9.85	LF
3	BACKER, EGS, 30 X 26 (TLM0100)	3	EA
2	BACKER, EGS, 36 X 36 (TLM0101)	2	EA
2	COLLAR, RADIUS ROOF (TLM0094)	2	EA
2	COLLAR, RADIUS ROOF, SHOWER DOME (TLM0092)	2	EA
32	EGS 3 x 64 9/16 x 28GA	20.98	EA
4	FOAM, AC DUCT BLOCK (TLM0320)	4	EA
16	FOAM, RADIUS ROOF (TLM0082)	16	EA
1	FRAME ASSEMBLY, ROOF, FRONT (TLM0014)	1	EA
8	LAUAN 48 x 99 x 2.7mm	242.90	SF
15	LIGHT, LED, 4", FLUSH (0328469)	15	EA
1	OSB 48 x 96 x .375	6.44	SF
8	PANEL, CEILING (HARD) 48 x 99	251.94	SF
4	PLENUM, AC DUCT (TLM0065)	4	EA
1	P-TUBE, ALUMINUM 1 1/2 x 1 x 2 x .09	8.02	LF
1	REFER VENT	1	EA
1	ROOF, RADIUS SHIM (TLM0067)	1	EA
1	SHOWER DOME 22x22	1	EA
1	SHROUD, INTERIOR, AC - CHILLGRILL 8430	1	EA
1	SOLAR PANEL PREP	1	EA
1	TPO 9' x 500'	267.00	SF
7	TRIM, BATTEN RETAINER	56.00	LF
7	TRIM, CEILING BATTEN	56.00	LF
2	TUBE, ALUMINUM 1 1/2 x 3 x .125	4.87	LF
6	TUBE, ALUMINUM 1 x 1 1/2 x .04	71.08	LF
4	TUBE, ALUMINUM 1 x 1 x .04	4.83	LF
18	TUBE, ALUMINUM 1 x 1 x .040 (RADIUS ROOF)	144.39	LF
9	TUBE, ALUMINUM 1 x 2 x .045	12.33	LF
4	VENT, ROOF	4	EA
1	WIFI / TV ANTENNA	1	EA



WIFI/TV ANTENNA MOUNTING (FRONT LEFT CORNER OF COACH)



A.C.E. 33.1

Roof Structure

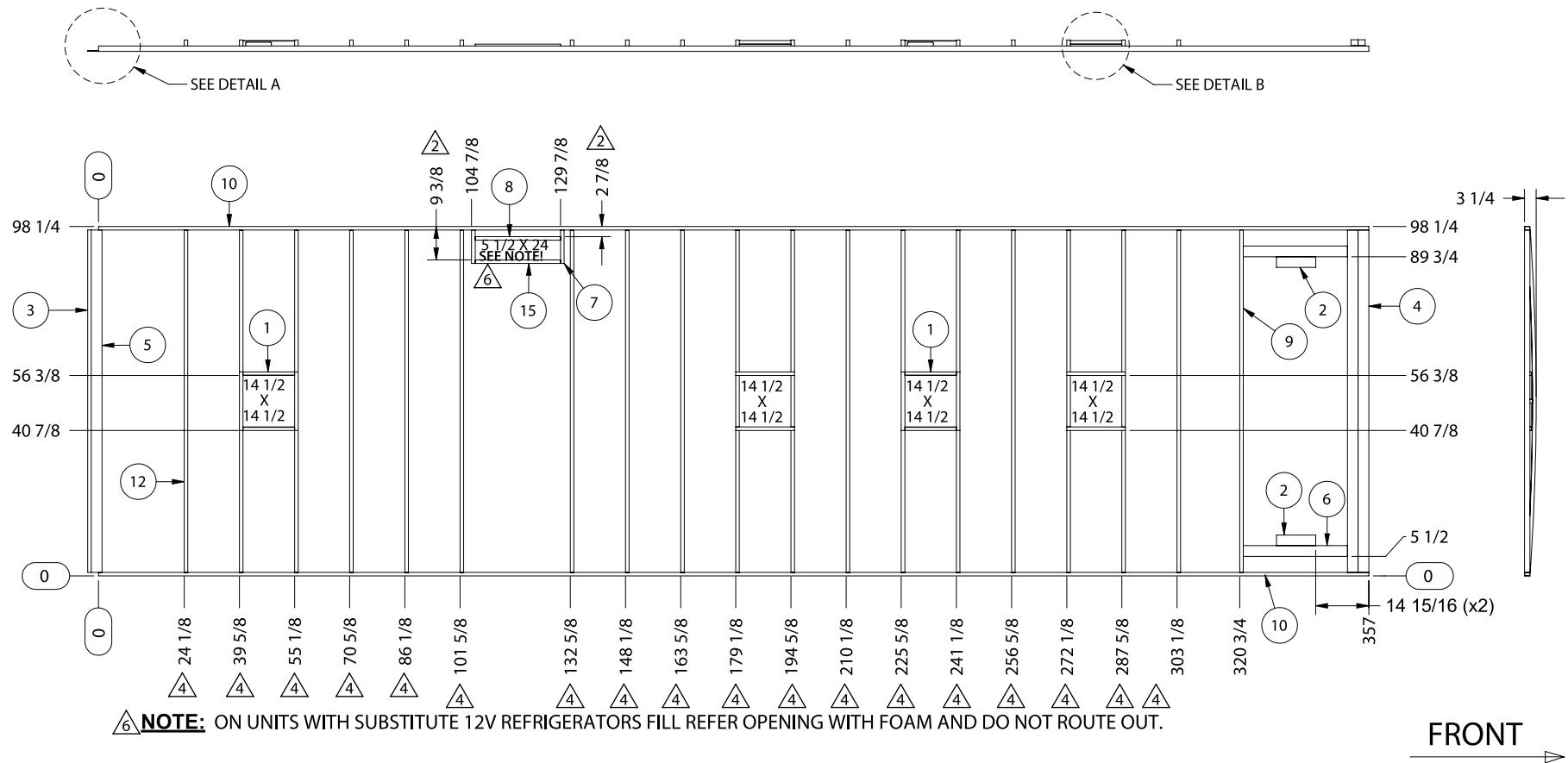
Model Year 2022

TRF1043-07: 01/28/2021

1 of 3

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FRAMING				
NO	QTY	DESCRIPTION - W x L (GRAIN)	SIZE A	SIZE B
1	2	ASSEMBLY, AC VENT (TLM0091)		
2	2	BACKER (TLM0033)		11
3	1	BACKER (TLM0033)		96 1/4
4	1	FRAME ASSEMBLY, ROOF, FRONT (TLM0014)		
5	1	P-TUBE, ALUMINUM 1 1/2 x 1 x 2 x .09		96 1/4
6	2	TUBE, ALUMINUM 1 1/2 x 3 x .125		29 1/4
7	2	TUBE, ALUMINUM 1 x 1 1/2 x .04		9 3/8
8	1	TUBE, ALUMINUM 1 x 1 1/2 x .04		24



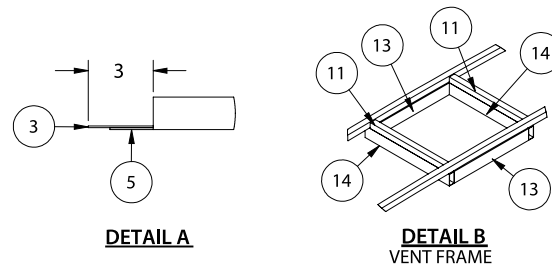
A.C.E. 33.1

Roof Structure

Model Year 2022

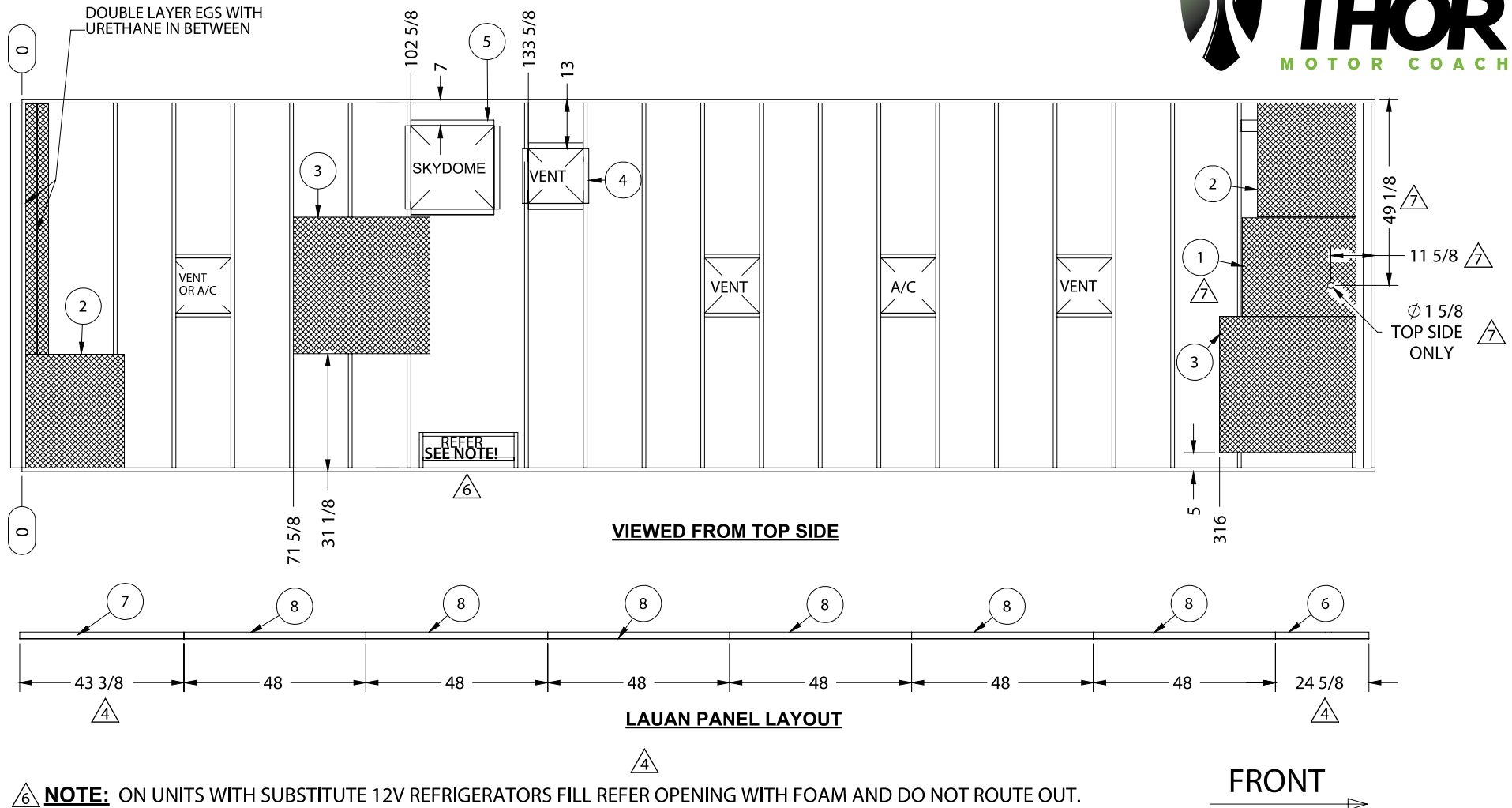
TRF1043-07: 01/28/2021

2 of 3



FRAMING				
NO	QTY	DESCRIPTION - W x L (GRAIN)	SIZE A	SIZE B
9	1	TUBE, ALUMINUM 1 x 1 1/2 x .04		96 1/4
10	2	TUBE, ALUMINUM 1 x 1 1/2 x .04		357
11	4	TUBE, ALUMINUM 1 x 1 x .04		14 1/2
12	18	TUBE, ALUMINUM 1 x 1 x .040 (RADIUS ROOF)		96 1/4
13	4	TUBE, ALUMINUM 1 x 2 x .045		14 1/2
14	4	TUBE, ALUMINUM 1 x 2 x .045		16 1/2
15	1	TUBE, ALUMINUM 1 x 2 x .045		24

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Roof Structure

Model Year 2022

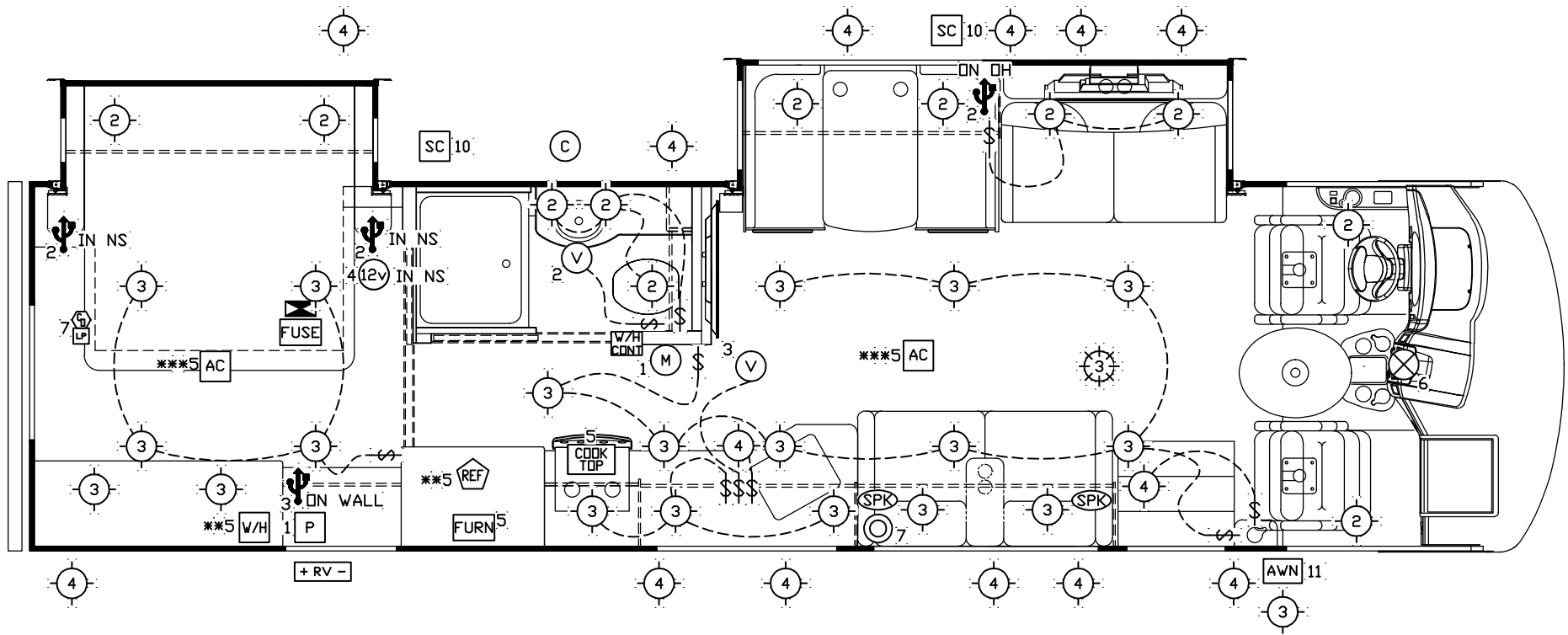
TRF1043-07: 01/28/2021

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NOTE: Mount aftermarket roof accessories into the backer areas ONLY! The backer in the roof is 28 gauge EGS (electrogalvanized steel) which is .0187 thick. Hex head self taping screws are acceptable to use. Tightened but do not overtighten to prevent stripping. Then cover with self leveling sealant.

BOM				
NO	QTY	DESCRIPTION - W x L (GRAIN)	SIZE A	SIZE B
1	1	BACKER, EGS, 26 X 30 (TLM0100)		
2	2	BACKER, EGS, 30 X 26 (TLM0100)		
3	2	BACKER, EGS, 36 X 36 (TLM0101)		
4	1	COLLAR, RADIUS ROOF (TLM0094)		
5	1	COLLAR, RADIUS ROOF, SHOWER DOME (TLM0092)		
6	1	LAUAN 48 x 99 x 2.7mm	24 5/8	98 1/4
7	1	LAUAN 48 x 99 x 2.7mm	43 3/8	98 1/4
8	6	LAUAN 48 x 99 x 2.7mm	48	98 1/4
9	1	TPO 9' x 500'	108	356

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



























A.C.E. 33.1

12 Volt Electrical Diagram

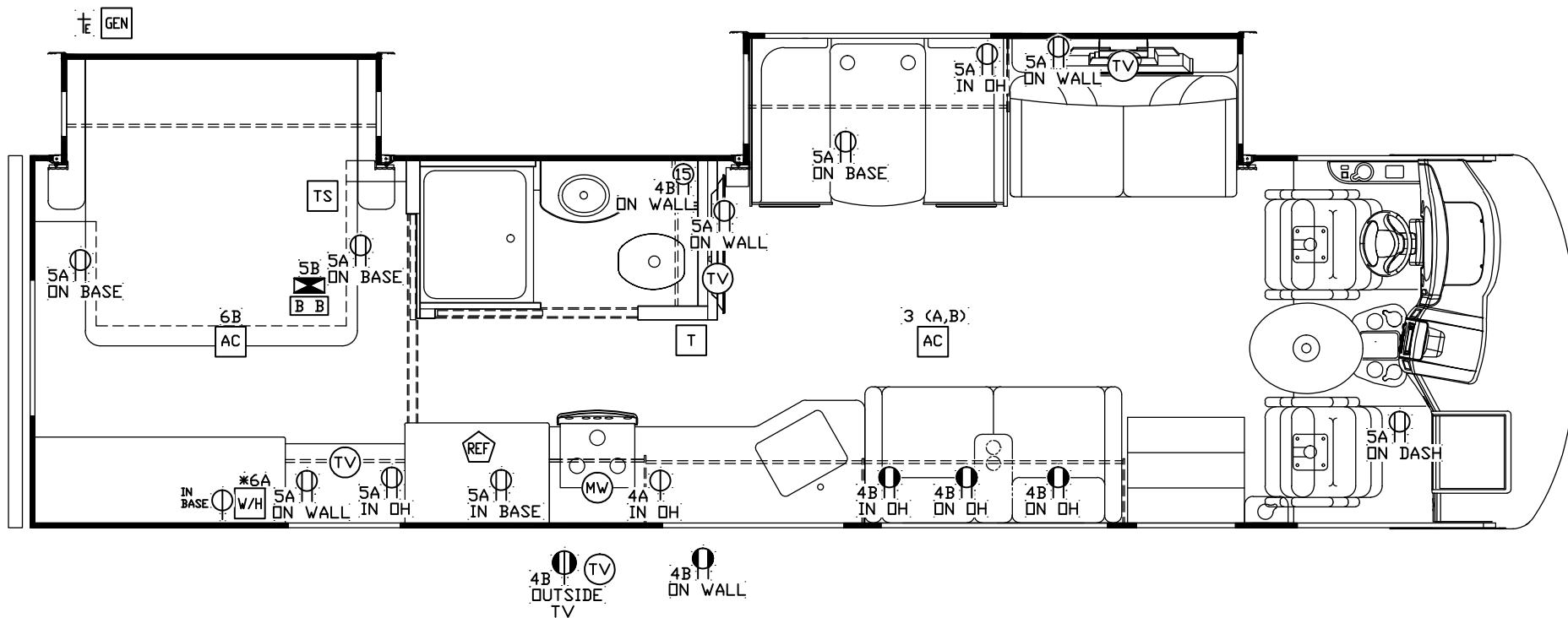
Model Year 2022

TEE3764-09: 02/09/2021

1 of 3

	USB CHARGE PORT		12V INVERTER & CHARGER		GFCI PROTECTED SINGLE		ANTENNA BOOST		12V OUTLET		MICROWAVE
	TRANSFER SWITCH		12V STORAGE BATTERY		120V DUPLEX OUTLET		MONITOR PANEL		RANGE VENT		12V VENT
	SLIDOUT CONTROLLER		BREAKER BOX		120V SINGLE OUTLET		12V LIGHT		REFRIGERATOR		RADIO
	CONVERTER & 12V FUSE BLOCK		120V AIR CONDITIONER		PROPANE & CO DETECTOR		FURNACE		110VAC ELECTRIC AWNING		12V POWER FAN
	12V FUSE BLOCK		15A GFCI OUTLET		ELECTRICAL INLET		THERMOSTAT		GENERATOR		WATER HEATER
	12V INVERTER		GFCI PROTECTED		SWITCH		TV JACK		WATER PUMP		

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

































A.C.E. 33.1

120V; 50A Electrical Diagram

Model Year 2022

TEE3764-09: 02/09/2021

2 of 3

	USB CHARGE PORT		12V INVERTER & CHARGER		GFCI PROTECTED SINGLE		ANTENNA BOOST		12V OUTLET		MICROWAVE
	TRANSFER SWITCH		12V STORAGE BATTERY		120V DUPLEX OUTLET		MONITOR PANEL		RANGE VENT		12V VENT
	SLIDEOUT CONTROLLER		BREAKER BOX		120V SINGLE OUTLET		12V LIGHT		REFRIGERATOR		RADIO
	CONVERTER & 12V FUSE BLOCK		120V AIR CONDITIONER		PROPANE & CO DETECTOR		FURNACE		110VAC ELECTRIC AWNING		12V POWER FAN
	12V FUSE BLOCK		15A GFCI OUTLET		ELECTRICAL INLET		THERMOSTAT		GENERATOR		WATER HEATER
	12V INVERTER		GFCI PROTECTED		SWITCH		TV JACK		WATER PUMP		

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12 VOLT AT CONVERTER				
NO	GA	COLOR	ATC FUSE	POWER TO
1	12/14	BLACK	15 AMP	WATER PUMP
2	14	GRAY	15 AMP	LEFT SIDE
3	14	VIOLET	15 AMP	RIGHT SIDE
4	14	YELLOW	15 AMP	CARGO LIGHTS
5	14	ORANGE	*15 BRK	APPLIANCES
6	14	GRY/BLK	15 A BRK	AUDIO/VIDEO
7	18	ORANGE	5 AMP	LP DET
8	12	PINK	20 AMP	TANK HEATERS
9	12	GRN/ORG	20 AMP	MACERATOR/TANK HTR #2
10	10	RED	30 AMP	SLIDE MTR PWR
11	12/14	GREEN	15 AMP	BUNK LIFT/ AWNING
* = VENDOR SUPPLIED 15 AMP TYPE II BREAKER				
** = NOT USED FOR 12V REFER AND TANKLESS W/H				
*** = USED FOR GE A/C				

NOTES

1. 12 VOLT WIRE: GXL BELOW FLOOR, GXL OR TEW ABOVE FLOOR

12V BREAKERS WITHIN 18" OF BATTERIES					
NO	GA	COLOR	AMPS	POWER TO	TYPE
AA	6	RED	50	CONVERTER	III
BB	6	RED	50	CHASSIS FUSE PANEL	III
CC	4	RED	100	HYDRAULIC JACKS	III

NOTES:

1. 110 WIRE: COPPER TYPE NM SHEATH
2. AIR CONDITIONER BREAKER IS "HACR" TYPE
3. POWER CORD IS 6/3 TYPE STW WITH MINIMUM 25' EXPOSED.
4. GROUNDED RECEPTS USED & SYSTEM BONDED TO CHASSIS
5. DISTRIBUTION PANELBOARD IS CLASS CTL ENCLOSED TYPE 1 50 AMP 120/240 VOLT
6. 55 AMP POWER CONVERTER
7. NEUTRAL CONDUCTOR AND GROUNDS ARE ISOLATED IN PANEL BOARD

120 VOLT CIRCUITS				
CIRCUIT	GA	VOLTS	AMPS	POWER TO
1 (A,B)	6	120VAC	50 AMP	MAIN (LINE1)
2 (A,B)	6	120VAC	50 AMP	MAIN (LINE2)
3 (A,B)	12	120VAC	20 AMP	AIR CONDITIONER
4A	14	120VAC	15 AMP	MICROWAVE
4B	14	120VAC	15 AMP	GFCI RECEPTS
5A	14	120VAC	15 AMP	GENERAL RECEPTS
5B	14	120VAC	15 AMP	CONVERTER
6A	14	120VAC	15 AMP	*WATER HEATER
6B	12	120VAC	20 AMP	REAR AIR CONDITIONER
* = NOT USED FOR TANKLESS W/H				

APPLIANCE/GENERATOR SPECS		
APPLIANCE	VOLTS	AMPS
MICROWAVE (USA & CSA)	120	11.25
AIR CONDITIONER	120	13.4
REFRIGERATOR	120	2.5
CONVERTER	120	7.5
5.5 ONAN	120	45.8

INLINE 12 VOLT FUSE LOCATION			
NO	FUSE	POWER TO	LOCATION
A1	15A	RADIO MEMORY	BATTERY COMPARTMENT (E-START)
B1	15A	12V REFER	OUTPUT BATT. DISCONNECT
C1	10A	WATER HEATER	OUTPUT BATT. DISCONNECT
D1	5A	AUTO GEN START	BATTERY COMPARTMENT
E1	2A	AWNING LIGHT	BEHIND AWNING LIGHT SWITCH
F1	3A	GPS TRACKER-BAT	UNDER DASH BY TRACKER BOX
G1	3A	GPS TRACKER-IGN	UNDER DASH BY BUSSMANN BOX
H1	20A	SOLAR CHARGE	BATTERY COMPARTMENT

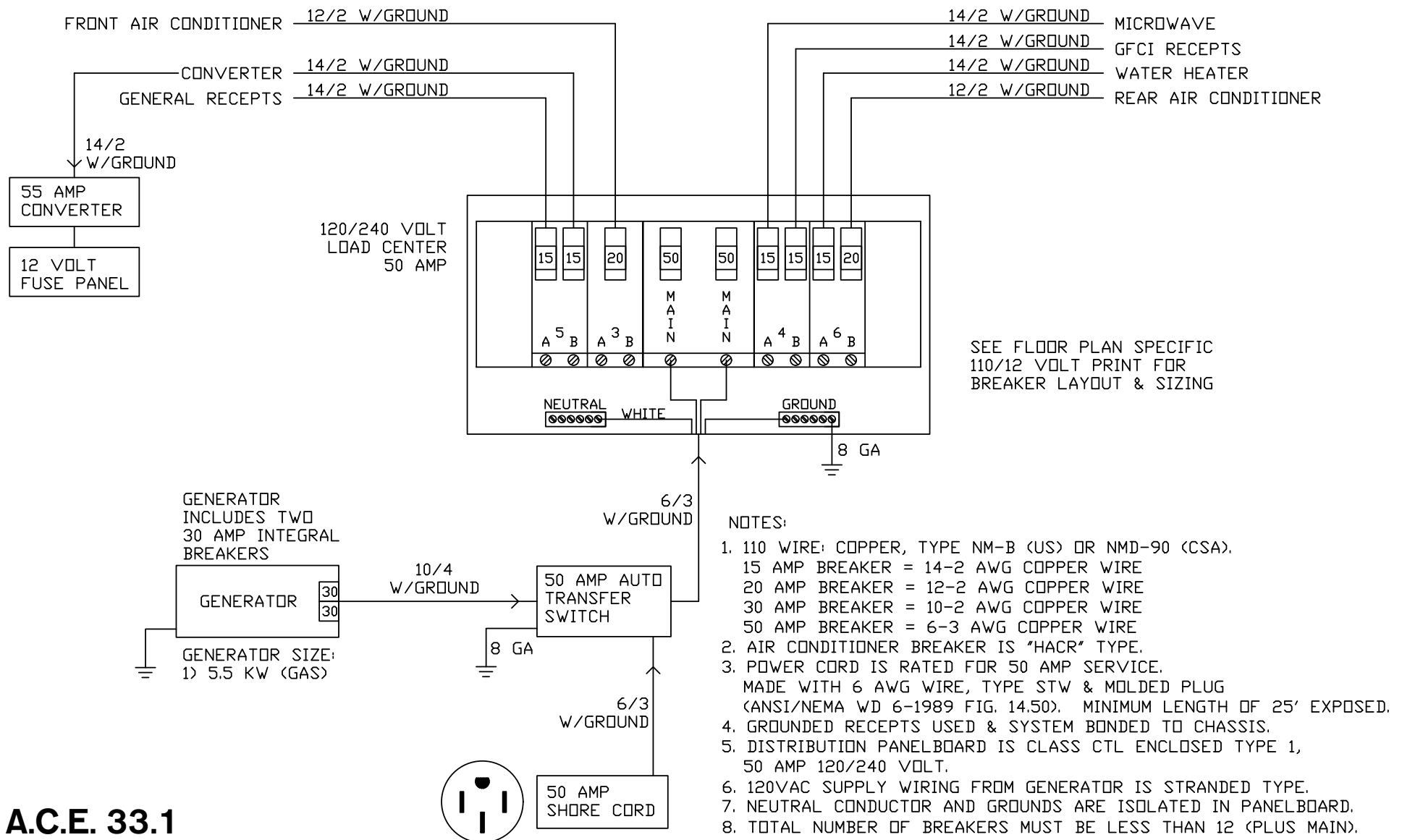
A.C.E. 33.1

12V/120V Electrical Circuits

Model Year 2022

TEE3764-09: 02/09/2021

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A.C.E. 33.1

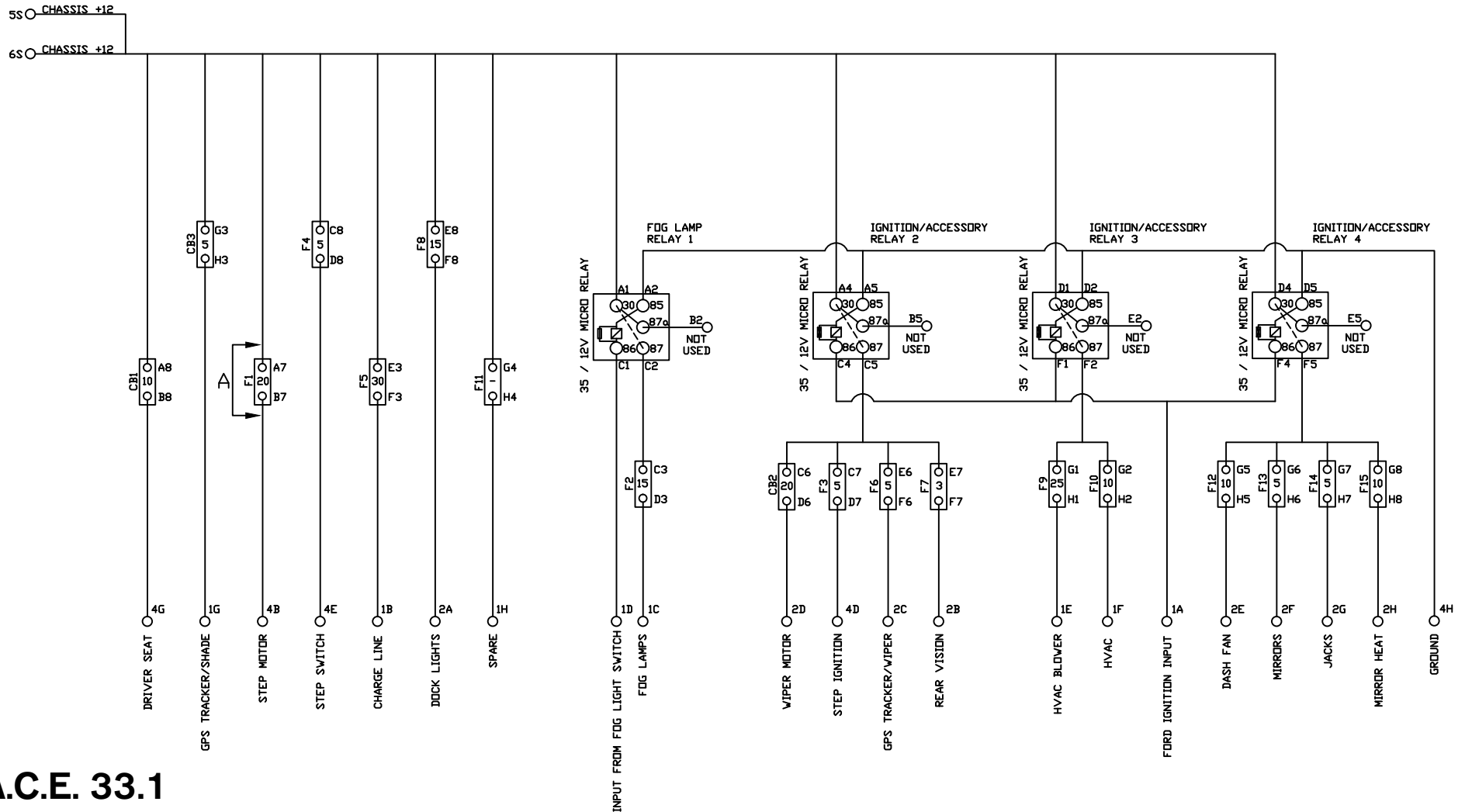
120V; 50A Power Diagram

Model Year 2022

TEE3219-03: 05/04/2021

1 of 1

ON OUTLAW 37LS, AND 37MD
USE 20 AMP CIRCUIT BREAKER



A.C.E. 33.1

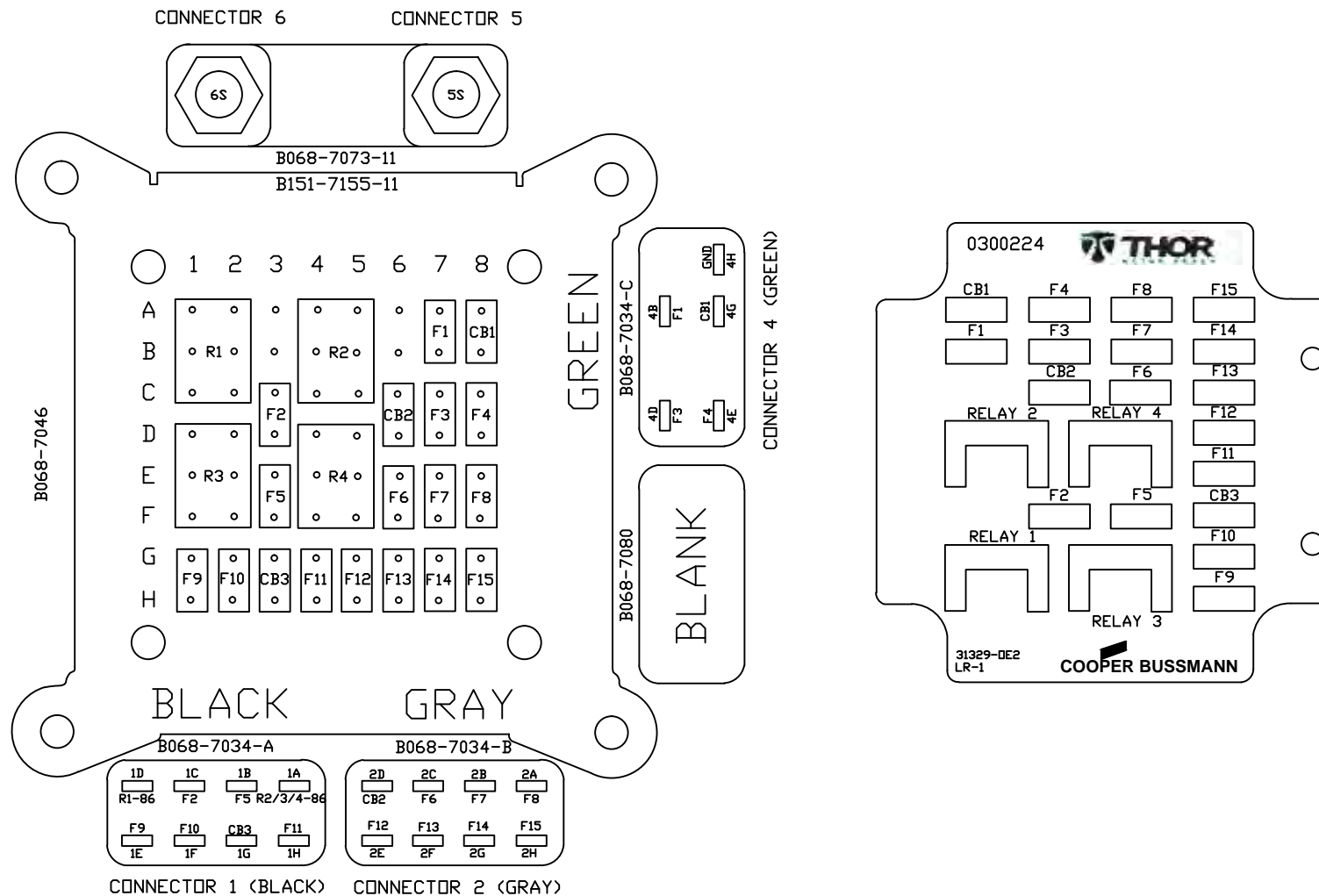
Electrical Distribution Diagram

Model Year 2022

TEE1133-03: 06/16/2020

1 of 2

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A.C.E. 33.1

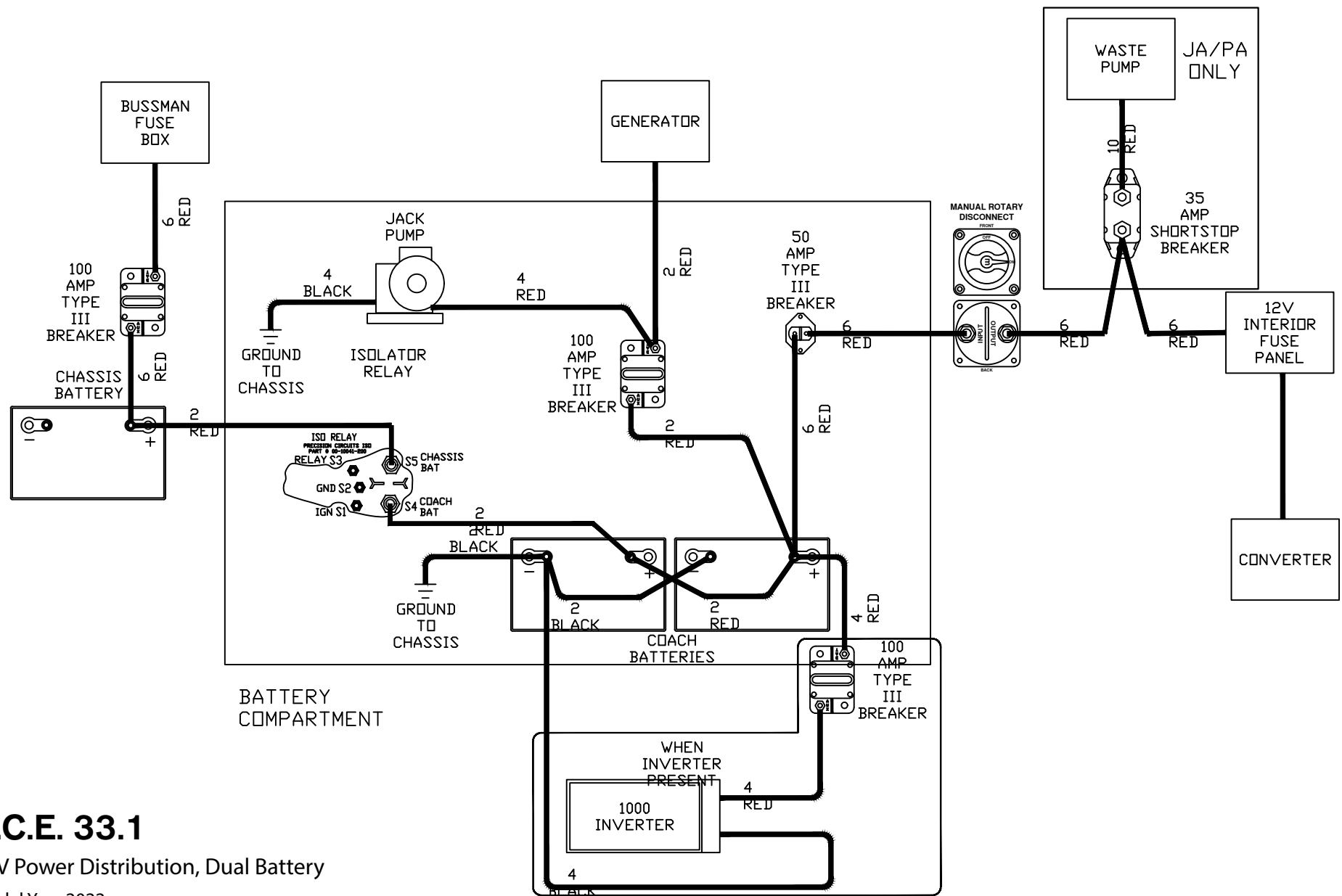
Electrical Distribution Diagram

Model Year 2022

TEE1133-03: 06/16/2020

2 of 2

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A.C.E. 33.1

12V Power Distribution, Dual Battery

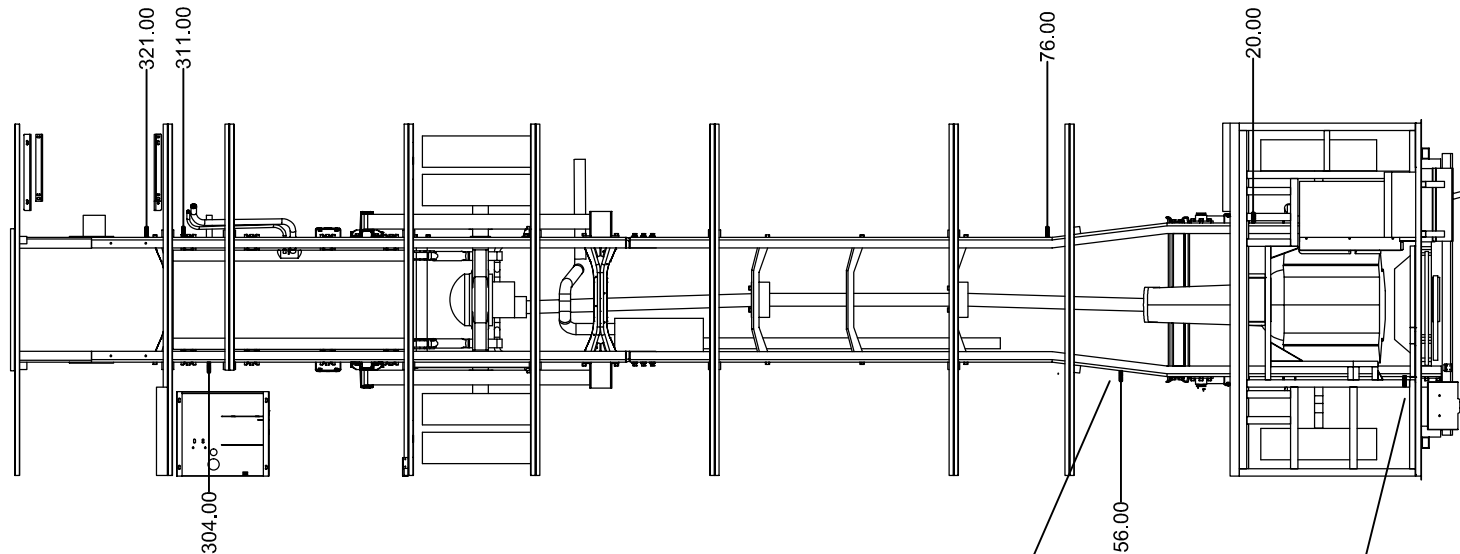
Model Year 2022

TEE3949-05: 03/05/2021

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NOTES:
 DIMENSIONS TO CENTER OF GROUND STUDS
 GRIND PAINT OFF FRAME APPROXIMATELY 1" IN
 CENTER OF VERTICAL FACE OF FRAME. WELD
 5/16" x 1 1/4" STUD IN CENTER OF BARE METAL.
 IF USING A BOLT THROUGH HOLE IN FRAME, WELD
 ONLY ON INSIDE OF RAIL.
 TOLERANCES: STUD OR HOLE; +/- 2"



PLACE 2" FROM BOTTOM
 OF FRAME RAIL

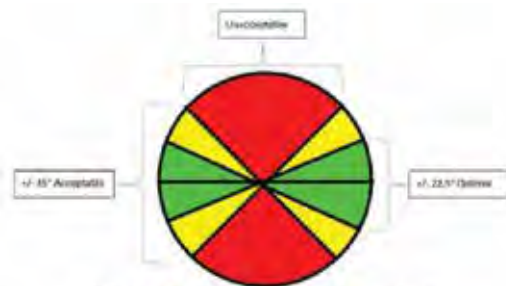
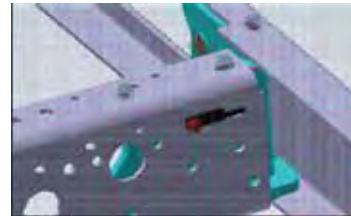


FIG. A: Ground Eyelet Orientation



FOR BATTERY RELOCATION - DRILL A NEW HOLE IN
 THE RIGHT SIDE FRAME RAIL NO CLOSER THAN 1" FROM
 ANY OTHER ELECTRICAL ITEM. REUSE THE
 SELF-CUTTING SCREW THAT COMES WITH THE GROUND.
 GROUND EYELET NEEDS TO BE ORIENTED AT AN ANGLE
 NO GREATER THAN 45 DEGREES FROM THE HORIZONTAL
 (SEE FIG. 'A').

A.C.E. 33.1

Ground Studs

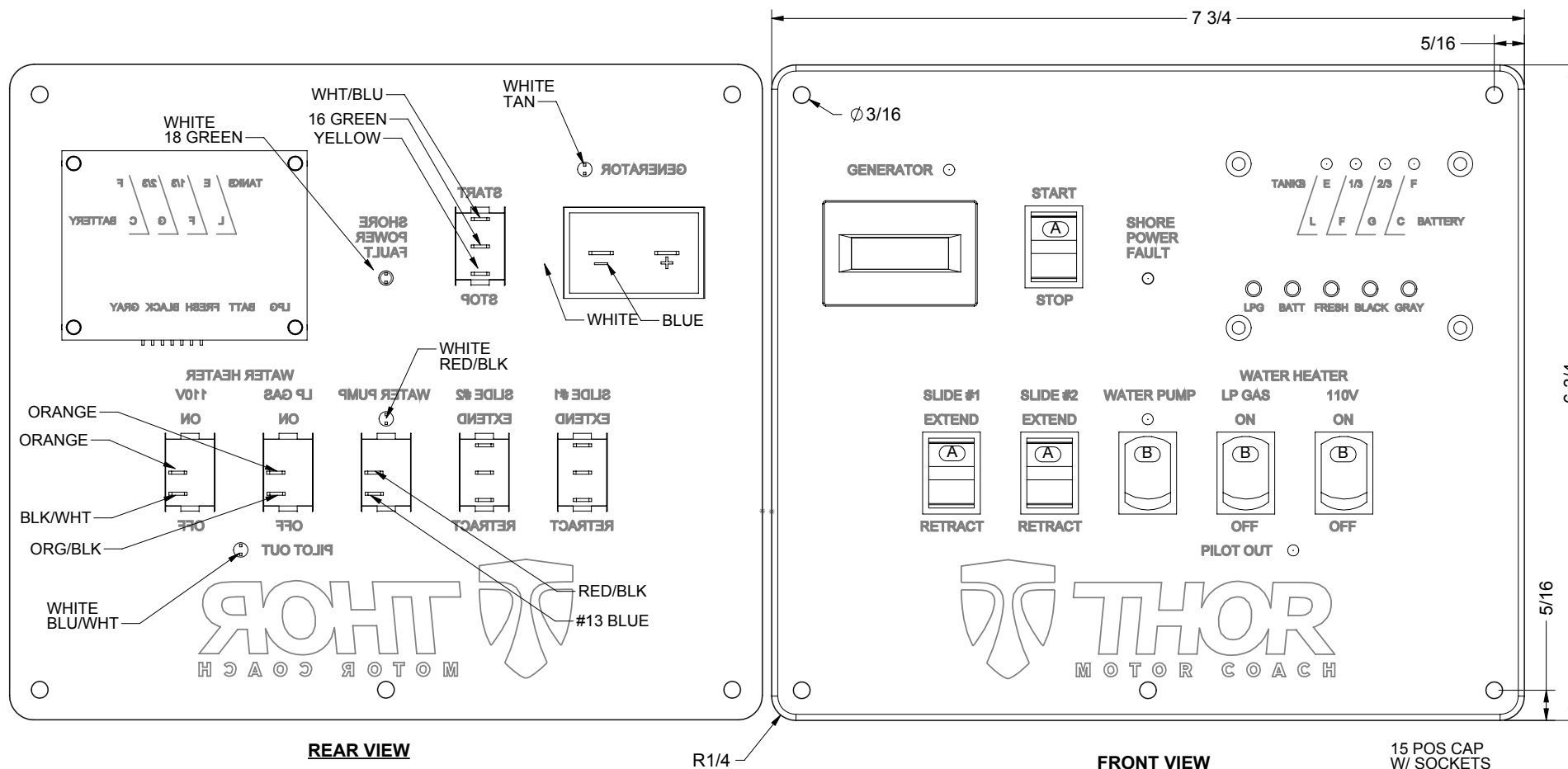
Model Year 2022

TEE3334-04: 03/30/2020

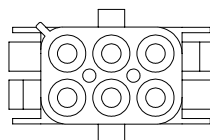
1 of 1

BATTERY CABLES, SDM AND SIR INFLATOR MODULES
 MUST BE DISCONNECTED PRIOR TO ANY WELDING
 ON THE CHASSIS

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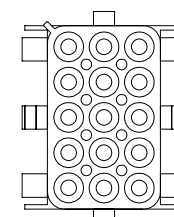


M2923
(DAX# 0486033)



1-480705-0

- 6 POS CAP
W/ SOCKETS
- #1 22 RED - +12V
 - #2 22 ORANGE - LP
 - #3 22 BLUE - FRSH
 - #4 22 BROWN - BLK
 - #5 22 GRAY - GRY
 - #6 22 WHITE - GRND



1-480711-0

- 15 POS CAP
W/ SOCKETS
- #1 14 ORANGE
 - #2 18 WHITE
 - #3 14 BLK/WHT
 - #4 14 ORG/BLK
 - #5 16 BLU/WHT
 - #6 16 GREEN
 - #7 16 WHT/BLU
 - #8 16 YELLOW
 - #9 16 BLUE
 - #10 16 TAN
 - #11 14 RED/BLK
 - #12 14 BLUE
 - #13 14 BLUE
 - #14 18 GREEN
 - #15 BLANK

A.C.E. 33.1

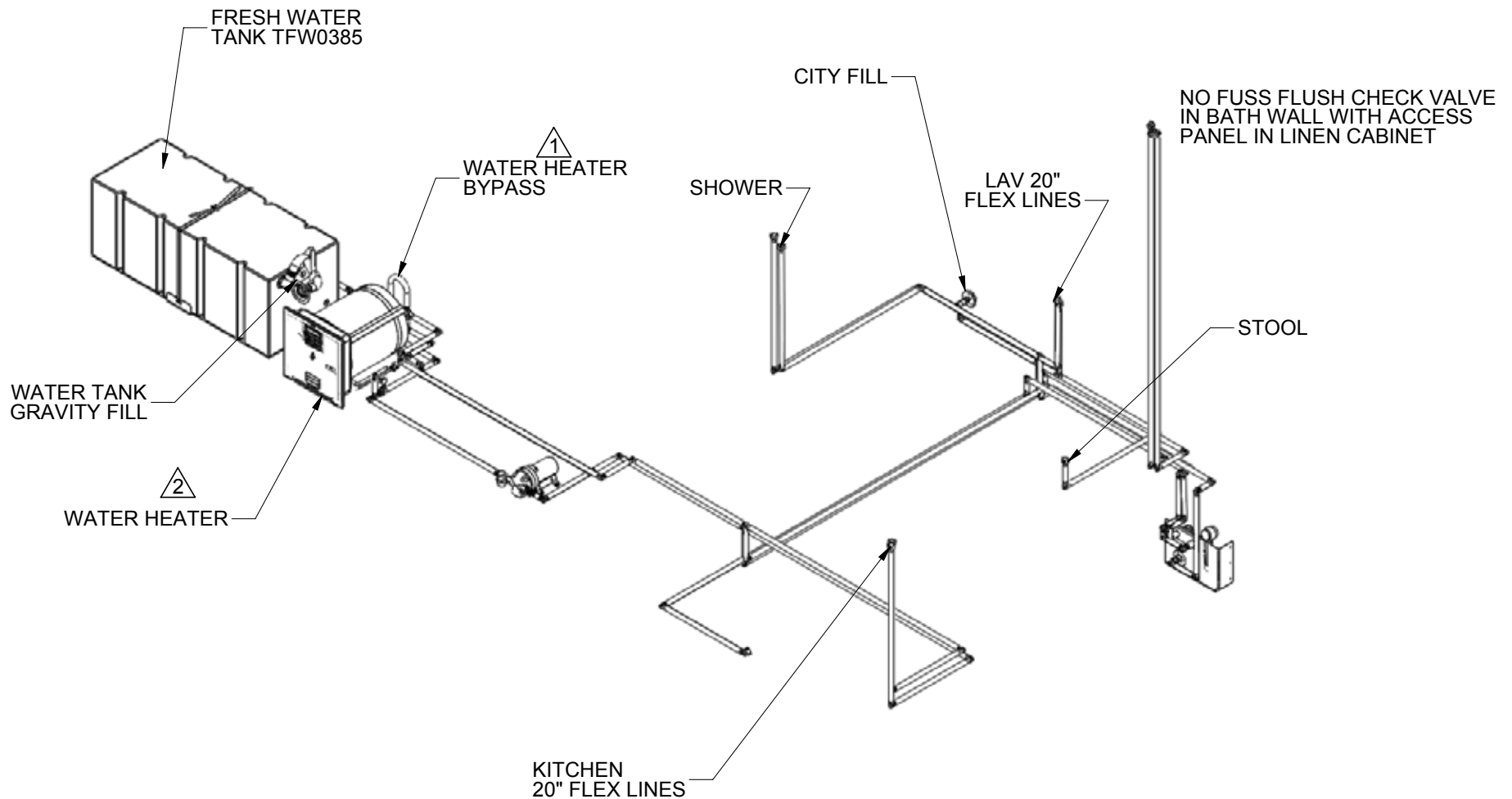
Monitor Panel

Model Year 2022

TPL1544-00: 11/10/2020

1 of 1

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A.C.E. 33.1

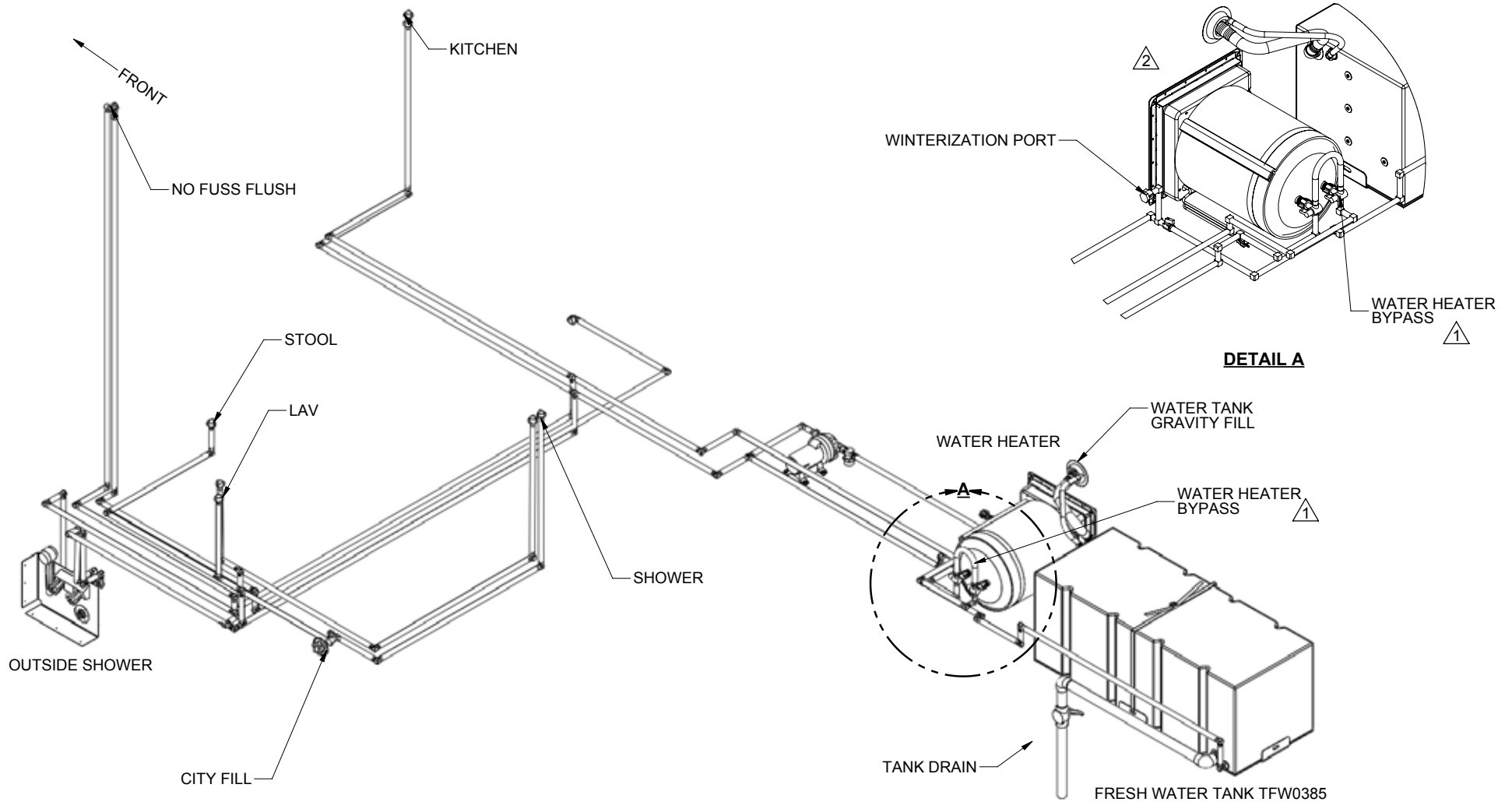
Fresh Water Plumbing

Model Year 2022

TFW0445-02: 09/28/2020

1 of 3

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A.C.E. 33.1

Fresh Water Plumbing

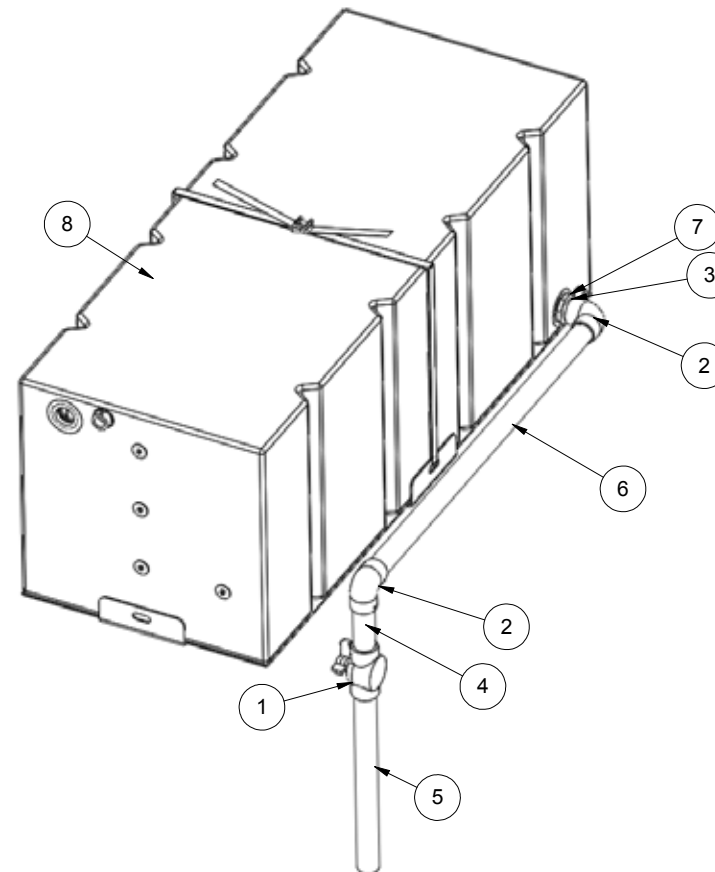
Model Year 2022

TFW0445-02: 09/28/2020

2 of 3

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BOM				
NO	QTY	DESCRIPTION - W x L (GRAIN)	SIZE A	SIZE B
1	1	BALL VALVE, PVC 1		
2	2	ELBOW, PVC 1		
3	1	PIPE, PVC 1"		1 1/4
4	1	PIPE, PVC 1"		4
5	1	PIPE, PVC 1"		14
6	1	PIPE, PVC 1"		29
7	1	REDUCER, PVC 1.25-1		
8	1	TANK, FRESH WATER (TFW0385)		



A.C.E. 33.1

Fresh Water Plumbing

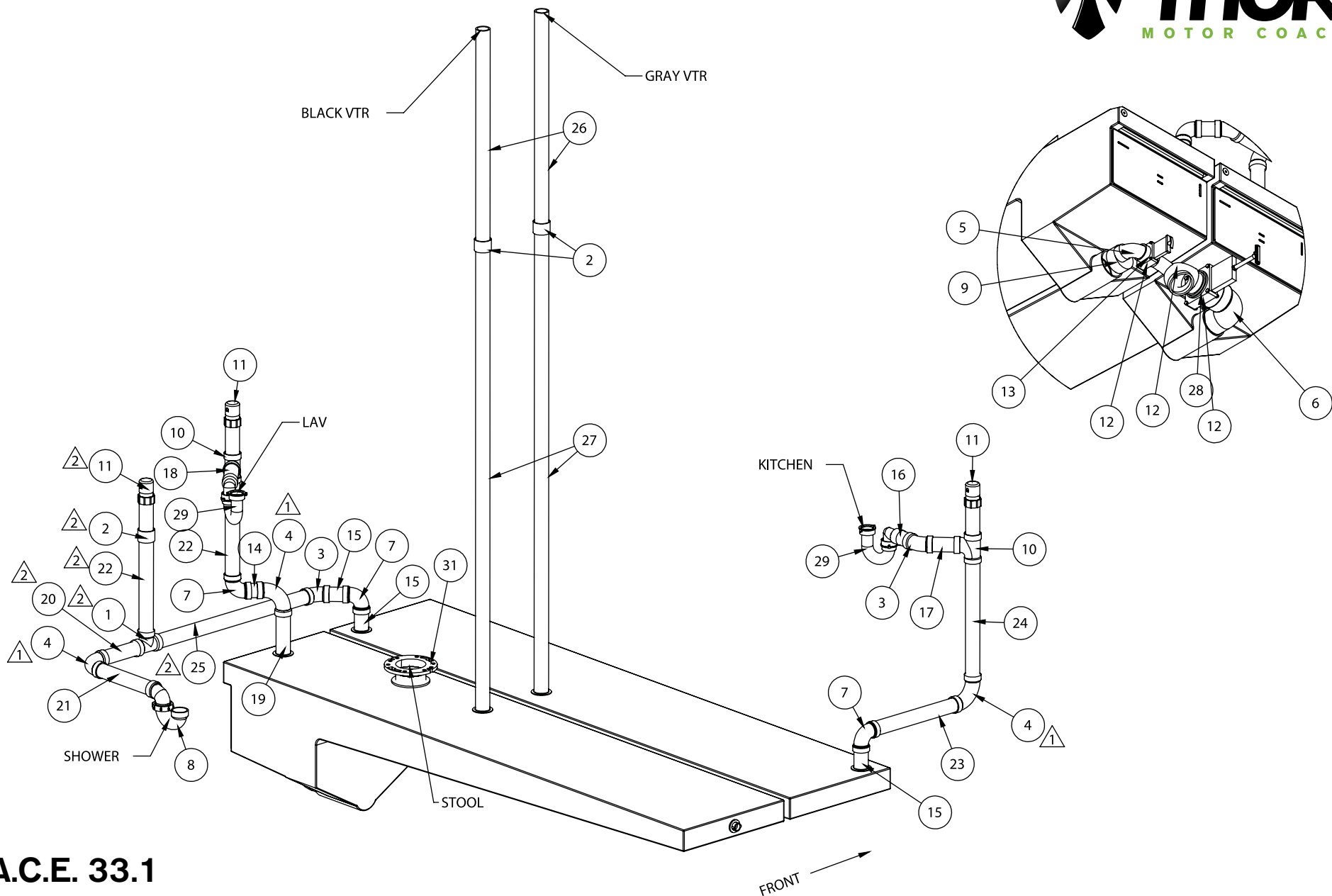
Model Year 2022

TFW0445-02: 09/28/2020

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FRESH TANK DRAINAGE LAYOUT

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A.C.E. 33.1

Waste Water Drainage

Model Year 2022

TDW0838-02: 04/15/2019

1 of 2

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ASSEMBLY				
NO	QTY	DESCRIPTION - W x L (GRAIN)	SIZE A	SIZE B
1	1	1.5 HV TEE		
2	3	ABS COUPLER, 1-1/2"		
3	2	ABS ELBOW, 45°, 1-1/2"		
4	3	ABS ELBOW, 90° LONG TURN, 1-1/2"		
5	1	ABS ELBOW, 90° SHORT TURN STREET, 1-1/2"		
6	1	ABS ELBOW, 90° STREET, 3"		
7	3	ABS ELBOW, 90°, 1-1/2"		
8	1	ABS P-TRAP, SCHEDULE 40, 1 1/2"		
9	1	ABS REDUCER, 3" X 1-1/2"		
10	2	ABS SANITARY TEE, 90°, 1-1/2"		
11	3	ABS, ANTI-SIPHON VENT, 1-1/2"		
12	1	DOUBLE ELL ROTATING TERMINATION VALVE		
13	1	PIPE, ABS 1-1/2"		1
14	1	PIPE, ABS 1-1/2"		2
15	3	PIPE, ABS 1-1/2"		3
16	1	PIPE, ABS 1-1/2"		3
17	1	PIPE, ABS 1-1/2"		4
18	1	PIPE, ABS 1-1/2"		5 1/2
19	1	PIPE, ABS 1-1/2"		6
20	1	PIPE, ABS 1-1/2"		7
21	1	PIPE, ABS 1-1/2"		11
22	2	PIPE, ABS 1-1/2"		14
23	1	PIPE, ABS 1-1/2"		15
24	1	PIPE, ABS 1-1/2"		17
25	1	PIPE, ABS 1-1/2"		27 1/2
26	2	PIPE, ABS 1-1/2"		30
27	2	PIPE, ABS 1-1/2"		65
28	1	PIPE, ABS 3"		5
29	2	SCHEDULE 40 P-TRAP		
30	1	SPIN FITTING LOCATIONS (TDW0837)		
31	1	STOOL FLANGE		

BOM TOTAL			
QTY	DESCRIPTION	EXTENDED	U/M
1	1.5 HV TEE	1	EA
3	ABS COUPLER, 1-1/2"	3	EA
2	ABS ELBOW, 45°, 1-1/2"	2	EA
3	ABS ELBOW, 90° LONG TURN, 1-1/2"	3	EA
1	ABS ELBOW, 90° SHORT TURN STREET, 1-1/2"	1	EA
1	ABS ELBOW, 90° STREET, 3"	1	EA
3	ABS ELBOW, 90°, 1-1/2"	3	EA
1	ABS P-TRAP, SCHEDULE 40, 1 1/2"	1	EA
1	ABS REDUCER, 3" X 1-1/2"	1	EA
2	ABS SANITARY TEE, 90°, 1-1/2"	2	EA
3	ABS, ANTI-SIPHON VENT, 1-1/2"	3	EA
1	DOUBLE ELL ROTATING TERMINATION VALVE	1	EA
20	PIPE, ABS 1-1/2"	27.17	LF
1	PIPE, ABS 3"	0.42	LF
2	SCHEDULE 40 P-TRAP	2	EA
1	STOOL FLANGE	1	EA

A.C.E. 33.1

Waste Water Drainage

Model Year 2022

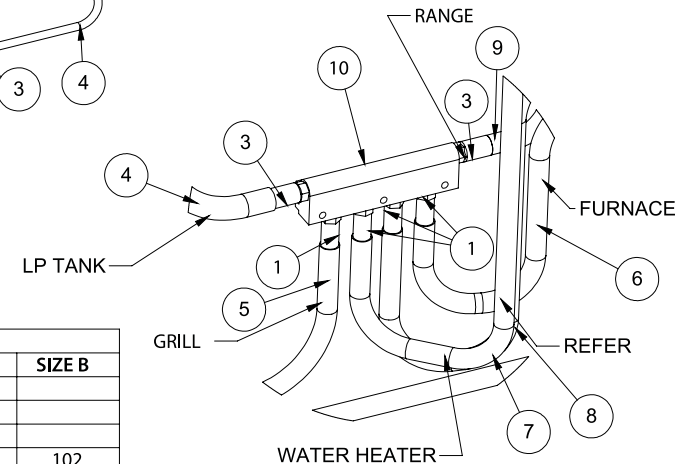
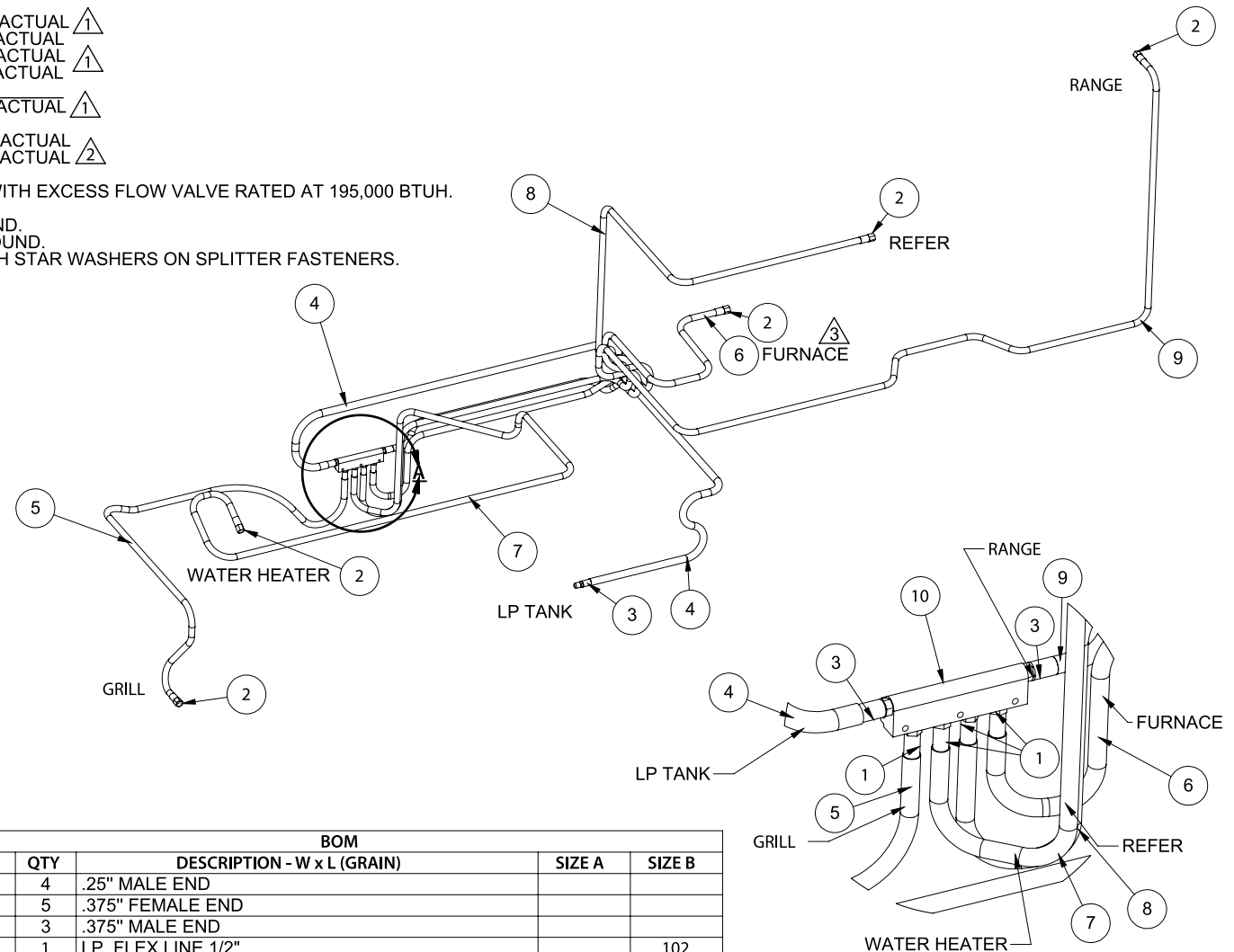
TDW0838-02: 04/15/2019

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NOTES:

1. 1/2" ID AND 3/8" ID RUBBER MANIFOLD USED.
2. MANIFOLD CONNECTED TO GAS SUPPLY BY A LISTED 1/2" I.D. FLEXIBLE CONNECTOR.
3. MANIFOLD CONNECTED TO APPLIANCES BY 3/8" I.D. FLEXIBLE CONNECTORS.
4. 3/8" FLAIR COPPER FITTINGS USED.
5. MAXIMUM DEVELOPED LENGTH: USA=264" & CSA=264"
6. THIS SYSTEM SIZED BY TESTING ACCORDING TO LATEST ANSI A119.2 / NFPA 1192 CODE.
7. REFERENCE TEST REPORT:
7. APPLIANCE INPUT RATINGS:
 - WATER HEATER: 10,000 BTUH ACTUAL $\triangle 1$
 - REFRIGERATION: 1,500 BTUH ACTUAL
 - RANGE: 28,100 BTUH ACTUAL $\triangle 1$
 - FURNACE: 35,000 BTUH ACTUAL
 - GRILL 12,000 BTUH ACTUAL $\triangle 1$
 - TOTAL 86,600 BTUH ACTUAL $\triangle 1$
- OPTIONAL WATER HEATER: +32,000 BTUH ACTUAL $\triangle 2$
- OPTIONAL TOTAL: 118,600 BTUH ACTUAL $\triangle 2$
8. ORDER OF APPLIANCES MAY VARY.
9. L/P TANK REGULATOR IS A LISTED TWO STAGE WITH EXCESS FLOW VALVE RATED AT 195,000 BTUH.
10. GROUND CLEARANCE:
 - 18" FROM BOTTOM OF L/P TANK TO GROUND.
 - 6 1/2" FROM BOTTOM FRONT AXLE TO GROUND.
11. LP MANIFOLD IS GROUNDED TO FRAME THROUGH STAR WASHERS ON SPLITTER FASTENERS.



BOM				
NO	QTY	DESCRIPTION - W x L (GRAIN)	SIZE A	SIZE B
1	4	.25" MALE END		
2	5	.375" FEMALE END		
3	3	.375" MALE END		
4	1	LP, FLEX LINE 1/2"		102
5	1	LP, FLEX LINE 3/8"		72
6	1	LP, FLEX LINE 3/8"		90
7	1	LP, FLEX LINE 3/8"		108
8	1	LP, FLEX LINE 3/8"		114
9	1	LP, FLEX LINE 3/8"		162
10	1	SPLITTER_6 WAY		

A.C.E. 33.1

Propane Manifold, Gas Refrigerator

Model Year 2022

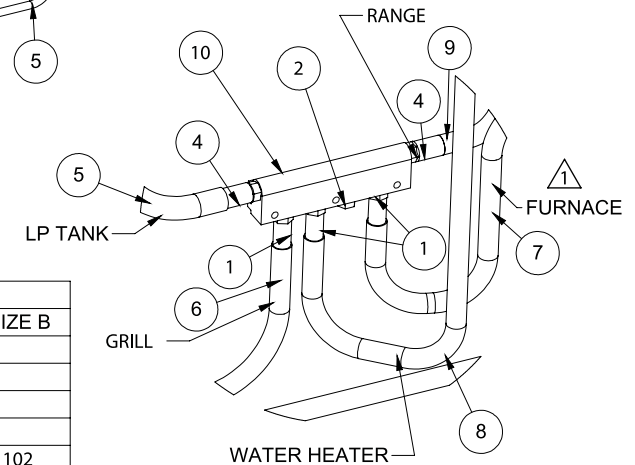
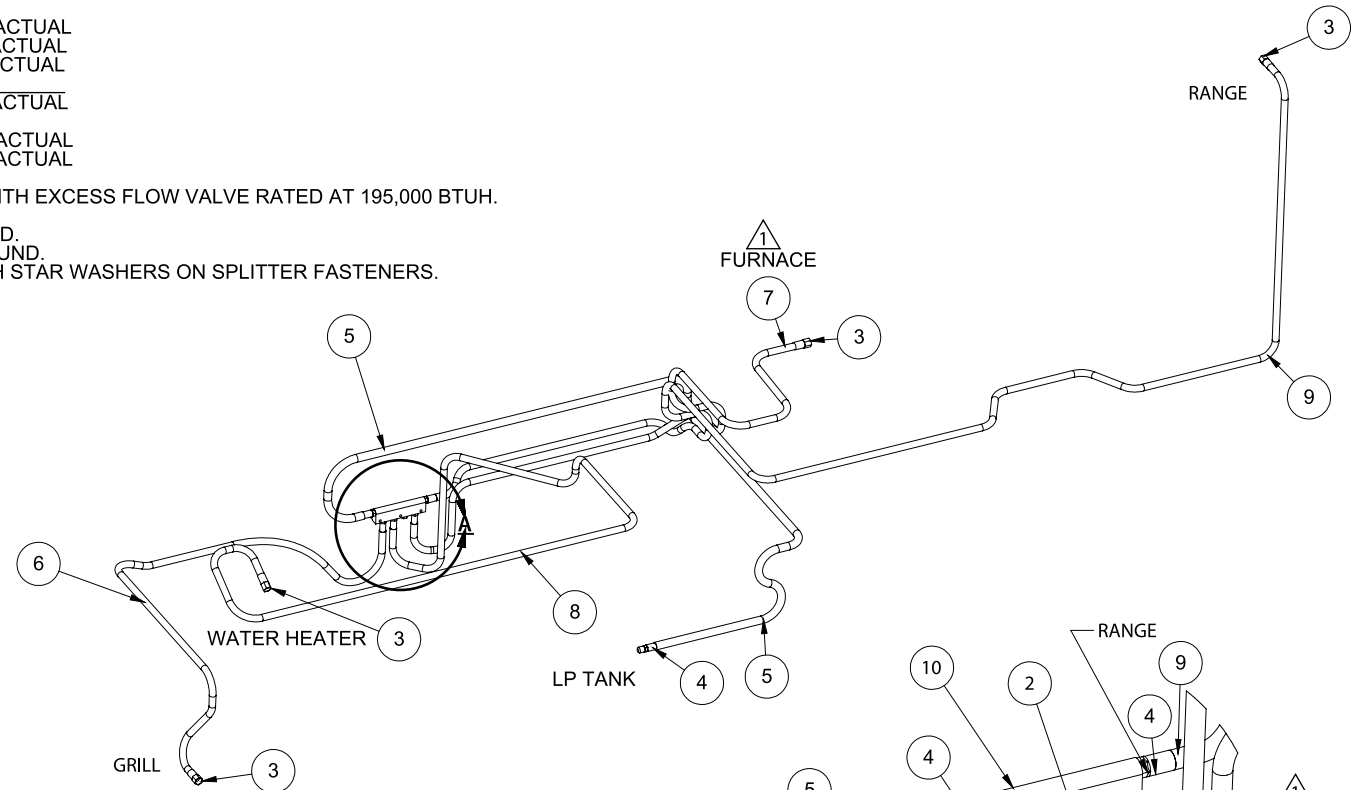
TLP0706-03: 12/30/2020

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NOTES:

1. 1/2" ID AND 3/8" ID RUBBER MANIFOLD USED.
2. MANIFOLD CONNECTED TO GAS SUPPLY BY A LISTED 1/2" I.D. FLEXIBLE CONNECTOR.
3. MANIFOLD CONNECTED TO APPLIANCES BY 3/8" I.D. FLEXIBLE CONNECTORS.
4. 3/8" FLAIR COPPER FITTINGS USED.
5. MAXIMUM DEVELOPED LENGTH: USA=264" & CSA=264"
6. THIS SYSTEM SIZED BY TESTING ACCORDING TO LATEST ANSI A119.2 / NFPA 1192 CODE.
7. REFERENCE TEST REPORT:
APPLIANCE INPUT RATINGS:
 - WATER HEATER: 10,000 BTUH ACTUAL
 - RANGE: 28,100 BTUH ACTUAL
 - FURNACE: 35,000 BTUH ACTUAL
 - GRILL 12,000 BTUH ACTUAL
 - TOTAL 85,100 BTUH ACTUAL
- OPTIONAL WATER HEATER: +32,000 BTUH ACTUAL
- OPTIONAL TOTAL: 117,100 BTUH ACTUAL
8. ORDER OF APPLIANCES MAY VARY.
9. L/P TANK REGULATOR IS A LISTED TWO STAGE WITH EXCESS FLOW VALVE RATED AT 195,000 BTUH.
10. GROUND CLEARANCE:
 - 18" FROM BOTTOM OF L/P TANK TO GROUND.
 - 6 1/2" FROM BOTTOM FRONT AXLE TO GROUND.
11. LP MANIFOLD IS GROUNDED TO FRAME THROUGH STAR WASHERS ON SPLITTER FASTENERS.



BOM				
NO	QTY	DESCRIPTION - W x L (GRAIN)	SIZE A	SIZE B
1	3	.25" MALE END		
2	1	.25" MALE END_CAP		
3	4	.375" FEMALE END		
4	3	.375" MALE END		
5	1	LP, FLEX LINE 1/2"		102
6	1	LP, FLEX LINE 3/8"		72
7	1	LP, FLEX LINE 3/8"		90
8	1	LP, FLEX LINE 3/8"		108
9	1	LP, FLEX LINE 3/8"		162
10	1	SPLITTER_6 WAY		

A.C.E. 33.1

Propane Manifold, Elect. Refrigerator

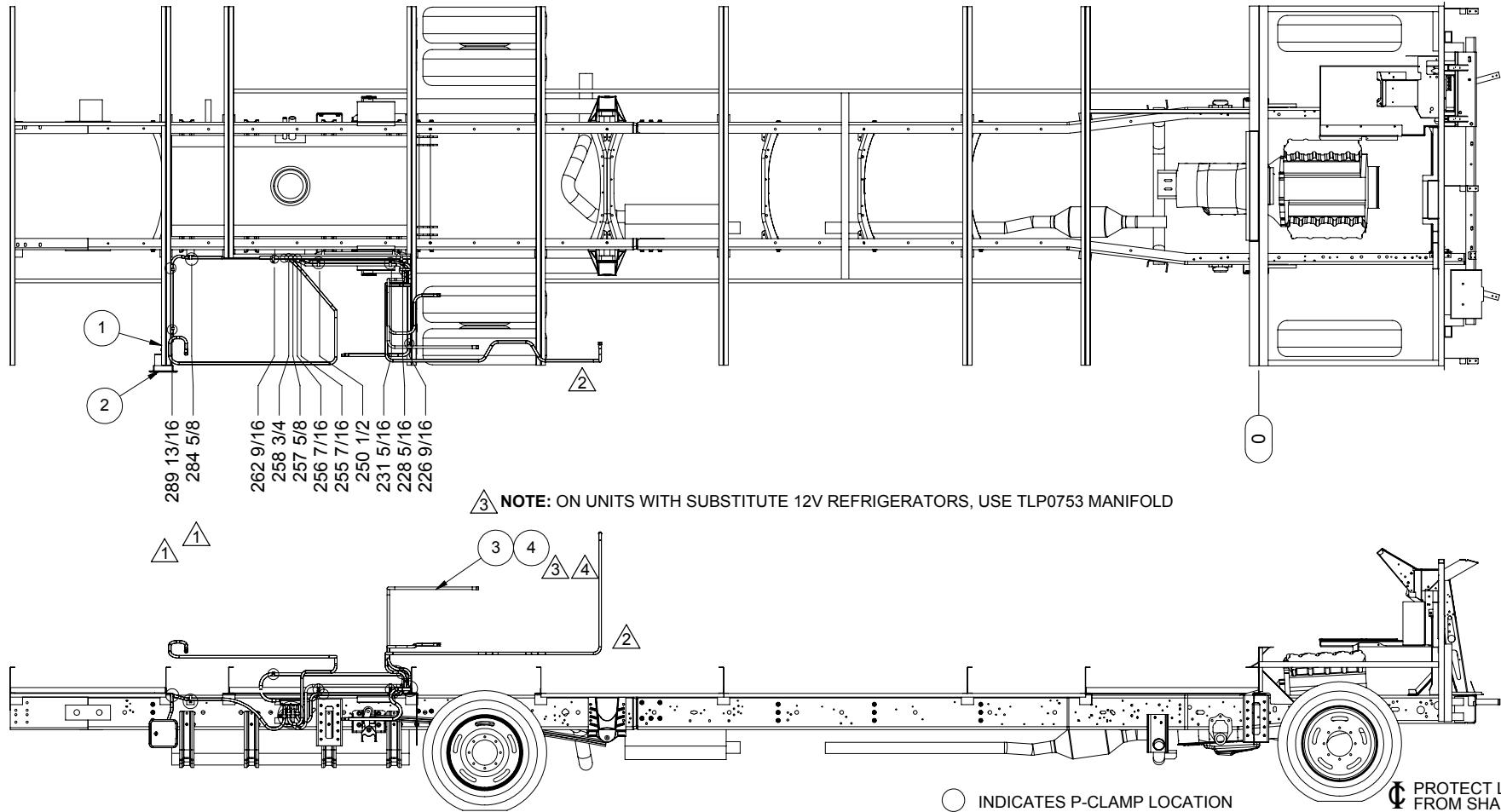
Model Year 2022

TLP0753-01: 12/30/2020

1 of 1

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BOM				
NO	QTY	DESCRIPTION - W x L (GRAIN)	SIZE A	SIZE B
1	1	ANGLE, SUPPORT (TFM5007)		
2	1	AUXILIARY LP PORT		
3	1	MANIFOLD, FLEXIBLE LP (TLP0706)		
4	1	MANIFOLD, FLEXIBLE LP (TLP0753)		
5	16	P-CLAMP		
6	1	P-Clamp Large		
7	2	STAR Lock Washer .25		



A.C.E. 33.1

Propane Layout

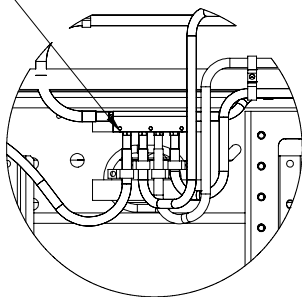
Model Year 2022

TLP0532-04: 12/30/2020

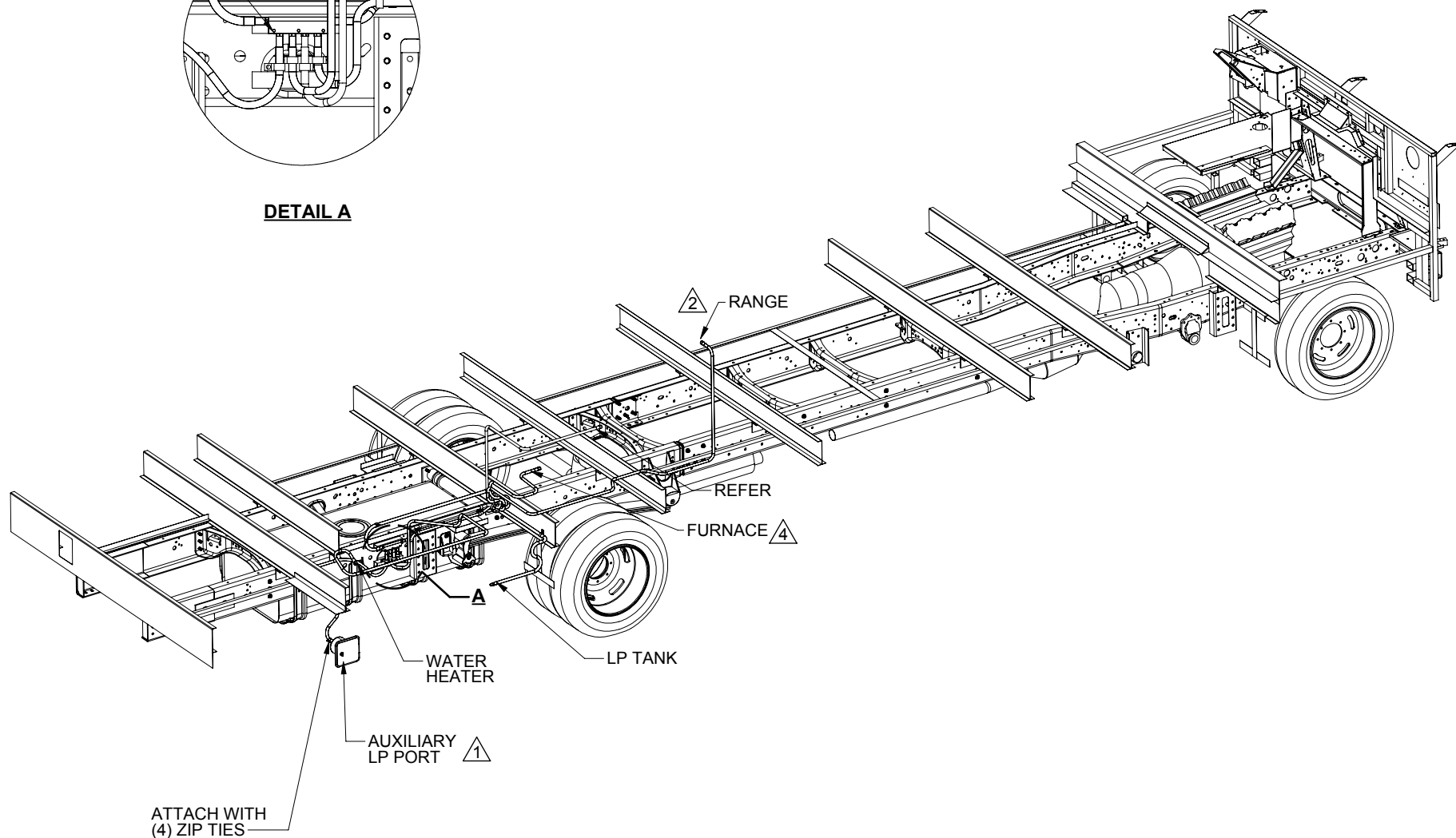
1 of 2

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ADD (2) STAR WASHERS
ON (2) FASTENERS
BETWEEN SPLITTER &
STRUCTURAL MEMBER



DETAIL A



A.C.E. 33.1

Propane Layout

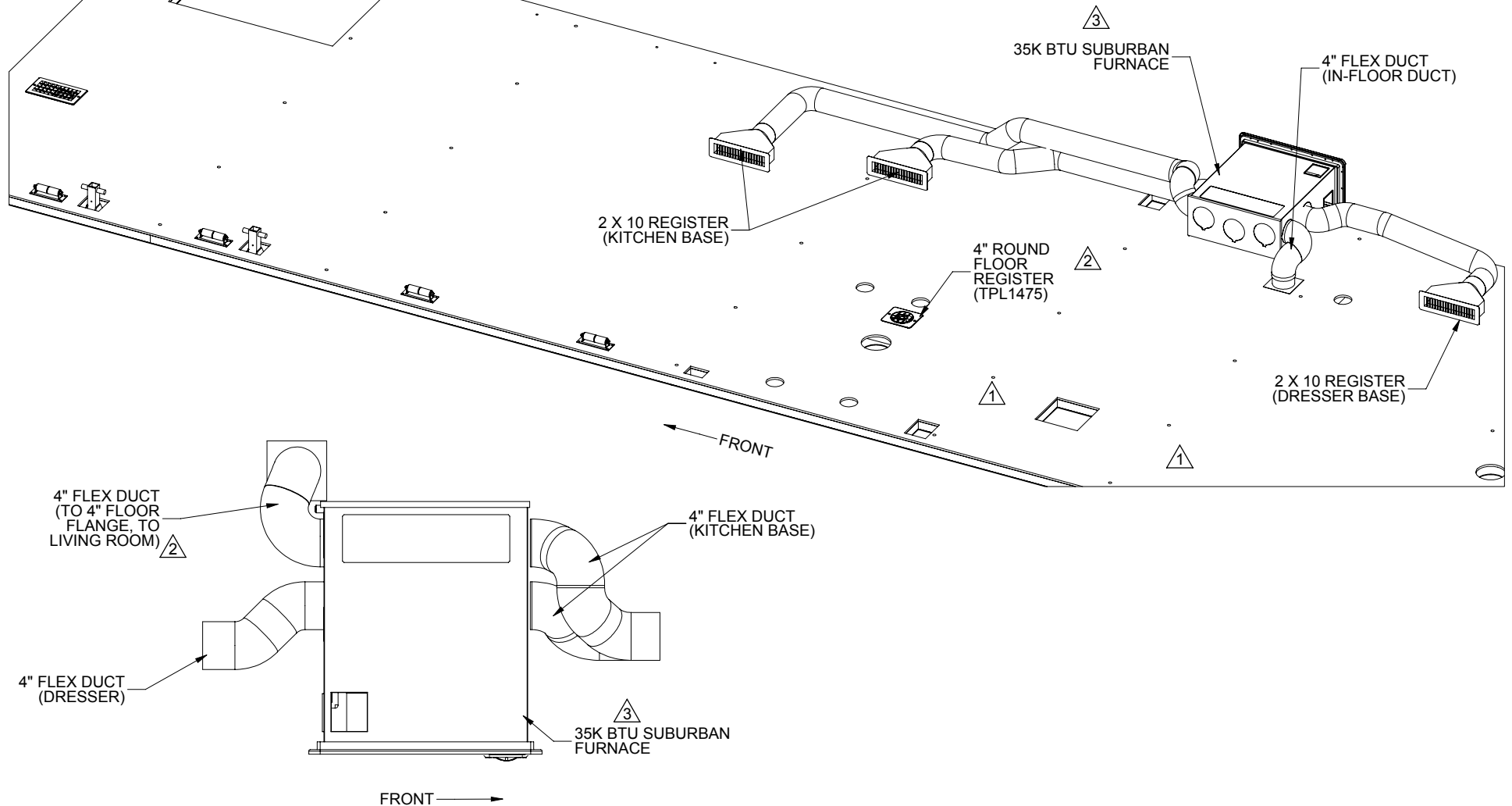
Model Year 2022

TLP0532-04: 12/30/2020

2 of 2

⚠ PROTECT LP LINES
FROM SHARP EDGES

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A.C.E. 33.1

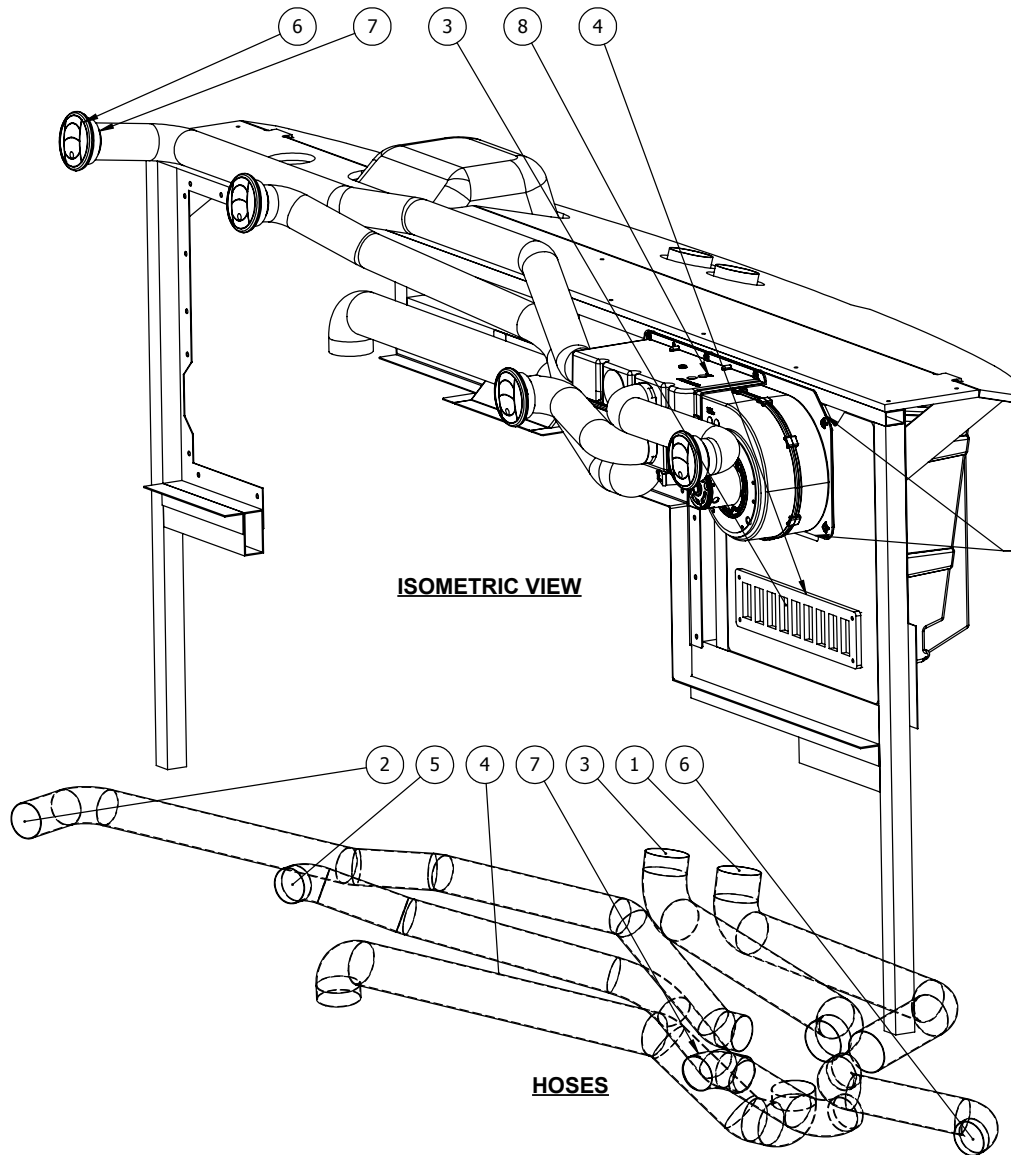
Heating Layout

Model Year 2022

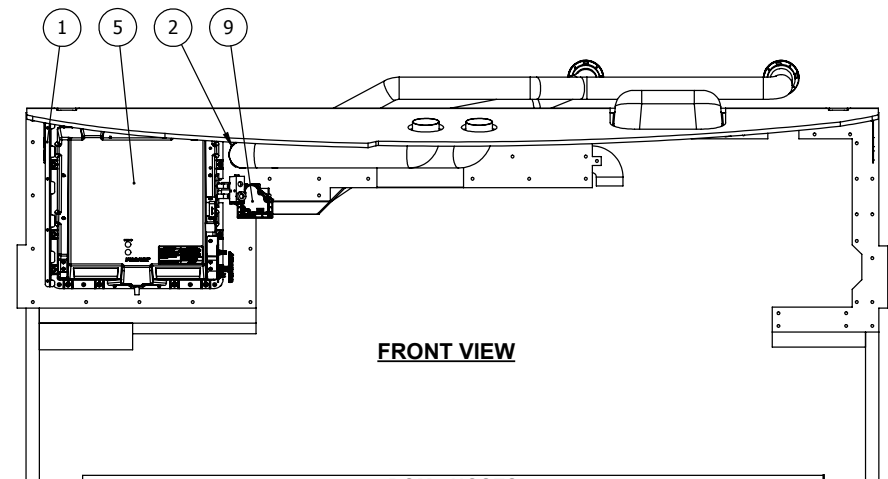
THL0240-03: 12/30/2020

1 of 1

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BOM		
NO	QTY.	DESCRIPTION
1	2	BRACKET, AC MNTG Z (0368856)
2	2	COLLAR, 3.0 DIA (0368859)
3	1	FILTER, INTAKE DASH AC (0368858)
4	1	GRILL, RETURN AIR, 4 X 16 (0368857)
5	1	HEATER, AC EVAP ASSEMBLY (0368865)
6	4	LOUVER, 2.5 DOMED (0368863)
7	4	LOUVER, INSERT, 2.5 BASE LONG (0368861)
8	1	PLENUM, BLOWER, AIR BOX ASSY (0451761)
9	1	VALVE, WATER ASSEMBLY (0368855)



BOM - HOSES			
NO	QTY	DESCRIPTION	LENGTH
1	1	HOSE, 3 IN DIA DUCT (0368853)	32.61
2	1	HOSE, 2.5 IN DIA DUCT (0368854)	62.69
3	1	HOSE, 3 IN DIA DUCT (0368853)	30.66
4	1	HOSE, 3 IN DIA DUCT (0368853)	43.39
5	1	HOSE, 2.5 IN DIA DUCT (0368854)	37.80
6	1	HOSE, 2.5 IN DIA DUCT (0368854)	16.35
7	1	HOSE, 2.5 IN DIA DUCT (0368854)	13.11

A.C.E. 33.1

Dash Heating

Model Year 2022

THL0285-01: 10/12/2020

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