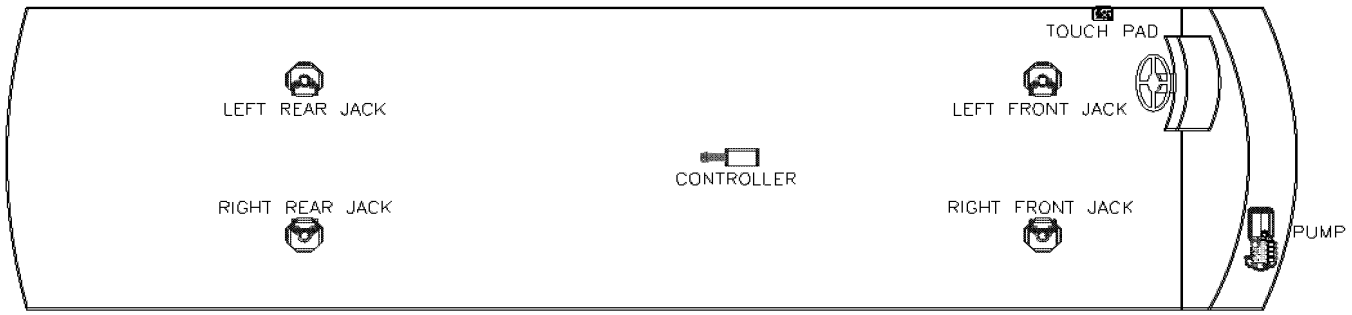
MY2017 VENTANA 3412 3436
STANDARD ON ALL FLOOR PLANS LISTED



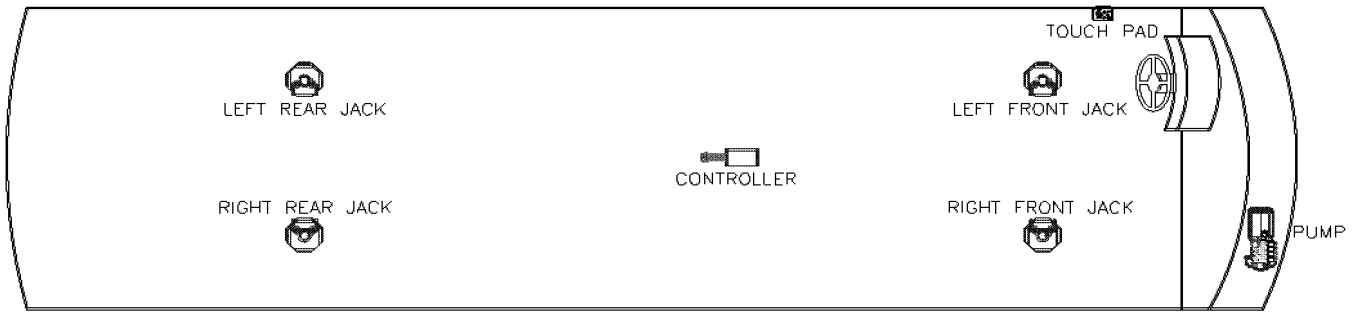
Notes:

Jack assemblies in list include mount plate and hardware. To order a replacement jack assembly, use part number 7214 for a front jack, and 7134 for a rear jack.

On 7/26/16 the system number changed from 8311 to 8311A for 3149A controller.

Item, Length	Description / Location	Qty	Color	Equalizer Part No.
Kit	(Items listed below)	1		8311A
Pump	4-Function, Jacks	1		7837
Jacks(Front)	12,000 lbs, 16" Stroke	2		7835
Jackes(Rear)	17,500 lbs, 18" Stroke	2		7965
Touch Pad	Located to the left of the drivers seat	1		3103
AL Controller	Attached to bottom of structure	1		3149A
Harness	Connects Pump, Controller, & Touch Pad	1		6940
Hose Kit	Complete Set of Hoses	1		7839
Hose, 10'	LR Jack Bottom to RR Jack Bottom	1	Orange/Yellow Stripe	2465
Hose, 10'	LF Jack Bottom to RF Jack Bottom	1	Brown/White Stripe	2465
Hose, 12'	Pump to Jack, Left Front Top	1	Brown Solid	2467
Hose, 12'	Pump to Jack, Right Front Top	1	White Solid	2467
Hose, 14'	Pump to Jack,Right Front Bottom	1	White Stripe	2469
Hose, 30'	Pump to Jack, Left Rear Top	1	Orange Solid	2527
Hose, 30'	Pump to Jack, Right Rear Top	1	Yellow Solid	2527
Hose, 32'	Pump to Jack, Right Rear Bottom	1	Yellow Stripe	2482
Options				
Revisions				

MY2018 VENTANA 3407, 3412, 3436
STANDARD ON ALL FLOOR PLANS LISTED



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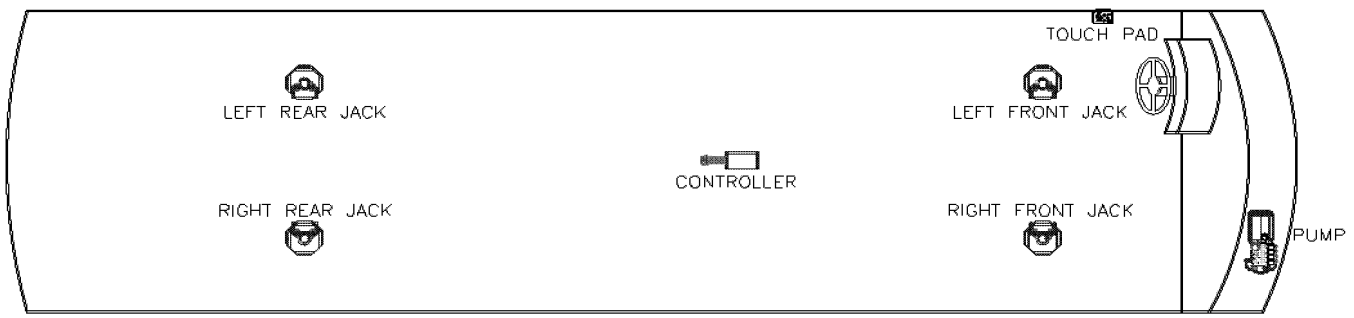
Hose, 32'	Pump to Jack, Right Rear Bottom	1	Yellow Stripe	2482
Options				
Revisions				

MY2019 VENTANA 3407, 3412, 3426
STANDARD ON ALL FLOOR PLANS LISTED



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Options				
Revisions				

MAIN HARNESS #6940

GRAY = 12V+ FOR TWO MINUTES TO DEFLATE AIR SUSPENSION INITIATED BY THE AUTO LEVEL COMMAND.
PURPLE = 12V+ TO INFLATE AIR SUSPENSION INITIATED BY ALL RETRACT COMMAND.

PIN	GAGE	COLOR
1	18	GREY
2	18	PURPLE
3	18	BLACK
4		

PIN	GAGE	COLOR
1		
2	18	BLK/YELLOW
3	18	PINK

INPUT. PARK BRAKE GND WHEN BRAKE ON
INPUT. IGNITION FROM COACH. 12V+ WHEN IGN ON.

KEY PAD #3103

PIN	GAGE	COLOR	
1	18	RED	INPUT. 12V
2	18	BLACK	INPUT. GROUND
3	18	BROWN/WHITE	OUTPUT. DATA
4	18	GRN/WHITE	OUTPUT. DATA

AUTO LEVEL CONTROLLER #3149A

PIN	GAGE	COLOR	
1	18	BROWN/WHITE	INPUT. DATA
2	18	GREEN/WHITE	INPUT. DATA
3	18	RED	OUTPUT. POWER TO KEY PAD
4	18	BLACK	OUTPUT. GND TO KEY PAD
5	18	PINK	INPUT. 12V+ WHEN IGN ON
6	18	BLACK/YELLOW	INPUT. PARK BRAKE GND. SEE NOTES
7	18	PURPLE	OUTPUT 12V+ (SUSPENSION INFLATE)
8	18	GREY	OUTPUT 12V+ (SUSPENSION DEFLATE)
9			

PIN	GAGE	COLOR	
1	12	RED	INPUT 12V+ FROM PUMP (MINIMUM 10.5V)
2	12	BLACK	INPUT GND FROM PUMP
3	18	BROWN	OUTPUT 12V+ TO PUMP VALVE LF
4	18	WHITE	OUTPUT 12V+ TO PUMP VALVE RF
5	18	YELLOW	OUTPUT 12V+ TO PUMP VALVE RR
6	18	ORANGE	OUTPUT 12V+ TO PUMP VALVE LR
7	18	GREEN	OUTPUT 12V+ TO PUMP RETRACT
8	18	BLUE	OUTPUT 12V+ TO PUMP EXTEND
9	18	YELLOW/BLACK	OUTPUT 12V+ TO PUMP PRESSURE SW

BI–ROTATIONAL PUMP #7837

HARNESS 6791BR

PIN	GAGE	COLOR
1	18	ORANGE
2	18	WHITE
3	18	BLUE
4	18	YELLOW
5	18	BROWN
6	18	GREEN
7		
8		
9	18	YELLOW/BLACK

PIN	GAGE	COLOR	
1	18	ORANGE	INPUT. 12V+ TO LEFT REAR VALVE COIL
2	14	WHITE	INPUT. 12V+ TO RIGHT FRONT VALVE COIL
3	18	DARK BLUE	INPUT. 12V+ TO MOTOR EXTEND SOLENOID
4	18	YELLOW	INPUT. 12V+ TO RIGHT REAR VALVE COIL
5	18	BROWN	INPUT. 12V+ TO LEFT FRONT VALVE COIL
6	18	DARK GREEN	INPUT. 12V+ TO MOTOR RETRACT SOLENOID
7			
8			
9	18	YELLOW/BLACK	PRESSURE SW 12V+ OUTPUT

HARNESS 6572

PIN	GAGE	COLOR
B	12	BLACK
A	12	RED

PIN	GAGE	COLOR	
B	12	BLACK	GROUND FROM CHASSIS
A	12	RED	12V+ YELLOW (20A FUSE)

EQUALIZER SYSTEMS MAIN 12V POWER INPUT. FROM PUMP MOTOR SOLENOID AND CHASSIS BATTERIES.

GROUND INPUT FROM CHASSIS CONNECTED TO STUD ON SIDE OF PUMP

NOTES:

THE 12V POWER SOURCE MUST NOT DROP BELOW 10.5 VOLTS MEASURED AT THE YELLOW FUSE WIRE ON THE PUMP OR THE PUMP VALVE COIL BEING ENERGIZED WITH THE METER GROUND ON THE PUMP CASE GROUND.

THE PARK BRAKE INPUT TO THE LEVEL CONTROLLER ARE GROUND INPUTS. IT IS PULLED HIGH TO 12V INTERNALLY THROUGH A RESISTOR. IT IS LOOKING FOR AN ACTIVE LOW INPUT SIGNAL. WHEN THE PARK BRAKE IS ON, IT'S SENDING A GROUND TO THE PARK BRAKE INPUT OF THE LEVEL CONTROLLER.

Equalizer
55169 COUNTY ROAD 3
ELKHART, IN 46515

#	REVISIONS	BY:	DATE:

UNLESS OTHERWISE SPECIFIED:
TOLERANCES:
.XXX ± 0.010
.XX ± 0.010
.X ± 0.030
ANG. ± 1/2°
REMOVE ALL BURRS AND SHARP EDGES .015 MAX

TITLE: AUTO LEVEL SCHEMATIC			USED ON: NEWMAR–VENTANA LE & VENTANA
SIZE: A	SCALE: 1: 1	MATERIAL:	
DRW BY: SJ	DATE: 7/26/16	SYSTEMS: 8244A–8245A–8282A–8311A–8642A–8643A–8749A	
APP'D BY: —	DATE: —	PAGE: 1 OF 1	DWG NO.: P8244A / REV: —

Purge Instructions for Newmar Systems

This procedure must be performed with the initial installation & running of the hydraulic system, and following installation of the pump assembly and jacks. This procedure applies only to the MH-4 systems that are equipped with the Bi-rotational pump. All electrical and hose connections must be completed before the purging process. **You Must Follow this Procedure Strictly. Any Deviation from the Process will cause the purging process to become difficult and time consuming.**

1) Fill the reservoir with Dexron ATF.

2) Attach a hose with coupler to the quick disconnect fitting on the end of the manifold. Place the end of the hose into a clean container. During the initial run of the pump this hose will have air coming out of it with the possibility of a little residual fluid from the retract side of the system.

3) Run the pump to extend the jacks. Maintain the fluid level in the reservoir ¼ to ½ full. Do not allow the reservoir to run empty. If jack(s) will not fully extend, crack loose the upper hose(s) at the jack(s) and run the pump to extend until air is expelled. **Use Caution-hydraulic fluid will be under high pressure.** Retighten the hoses and complete the extensions of the jacks. Maintain the fluid level as described above.

4) Remove the hose and coupler from the quick disconnect fitting attached to the manifold.

5) Run the pump to retract the jacks. Maintain the fluid level as above. Do not fill the reservoir to full until after the legs are fully retracted.

6) **IMPORTANT**-If fluid in reservoir appears to be aerated (foaming), allow unit to rest until foam dissipates (approx. 5-10 minutes).

7) Fully extend and retract jacks a minimum of 3 times. Allow any foam in the reservoir to dissipate before each run. Keep the fluid level above ¼ to ½ at all times.

8) After final runs, with jacks fully retracted, add fluid up to the fill line.

Additional Notes Regarding Purging

- The reservoir fluid level will be the greatest when all jacks are fully retracted: the fluid level will be lowest when all jacks are fully extended.

- Never allow the reservoir to go empty. Maintain the fluid level at least ¾ full when the jacks are retracted.

- Being patient helps. IT does no good to run the pump and try to move the jacks when the reservoir is full of foam. Pumping foam will only reintroduce air into the system and will prolong the process unnecessarily.

- We want the air out. Allowing the air to dissipate through the reservoir and maintaining the reservoir fluid level will get things working faster.