

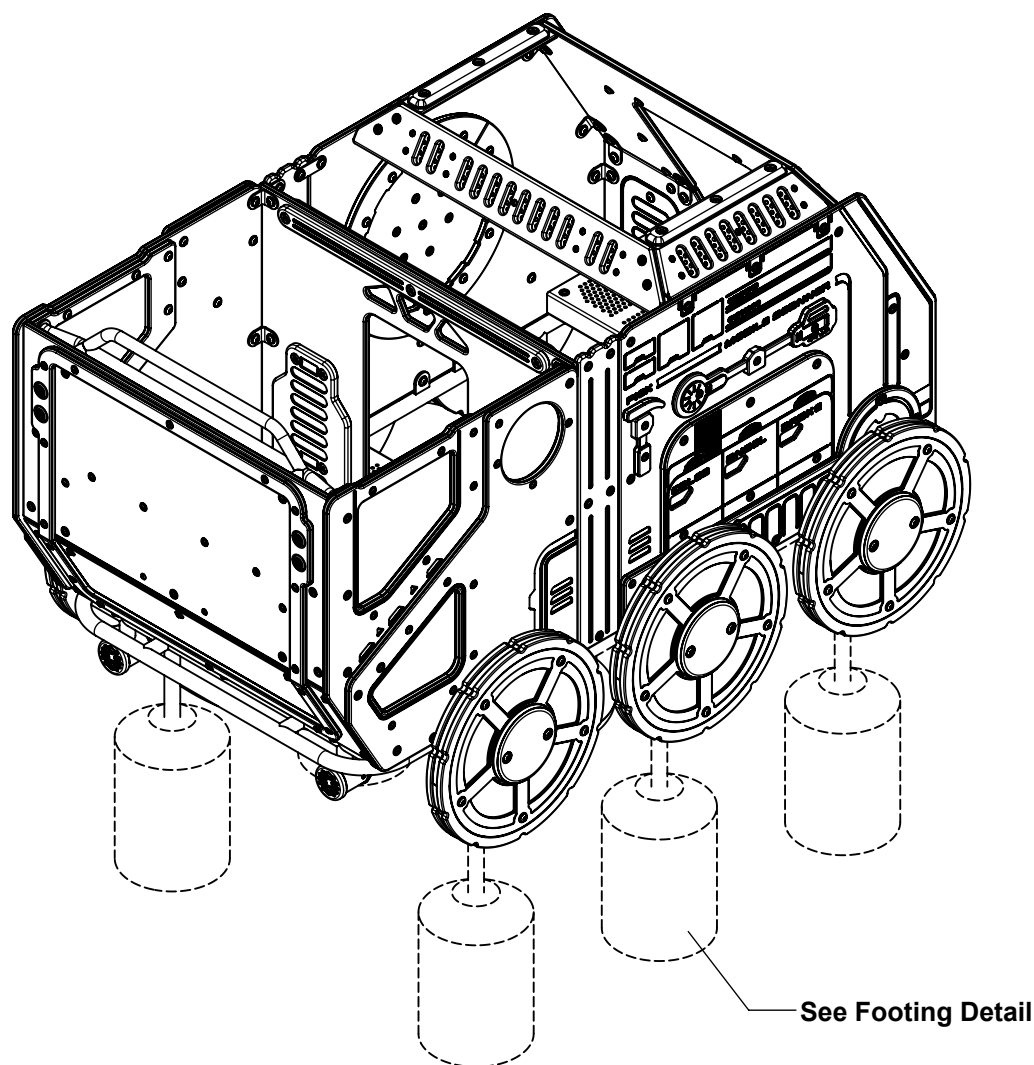
IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Lunar Rover



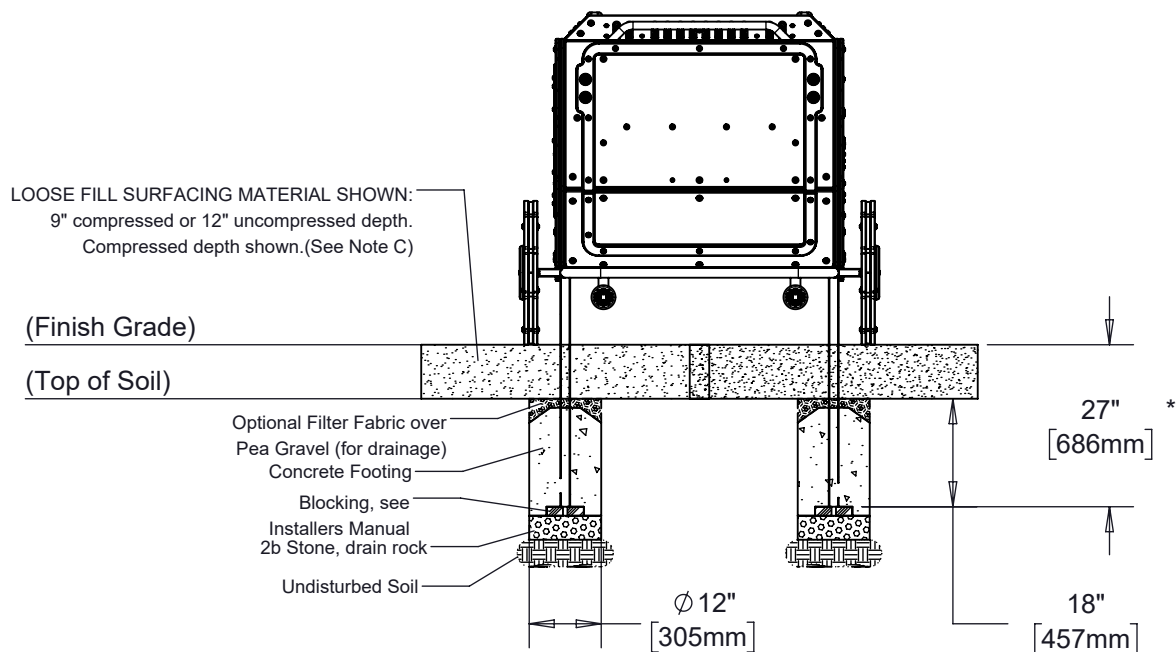
Step 1

Refer to Footing Layout and mark footing hole locations. Dig (6) Ø 12" footing holes. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required. Additionally, half foot deck heights will require 6" deeper footing holes.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

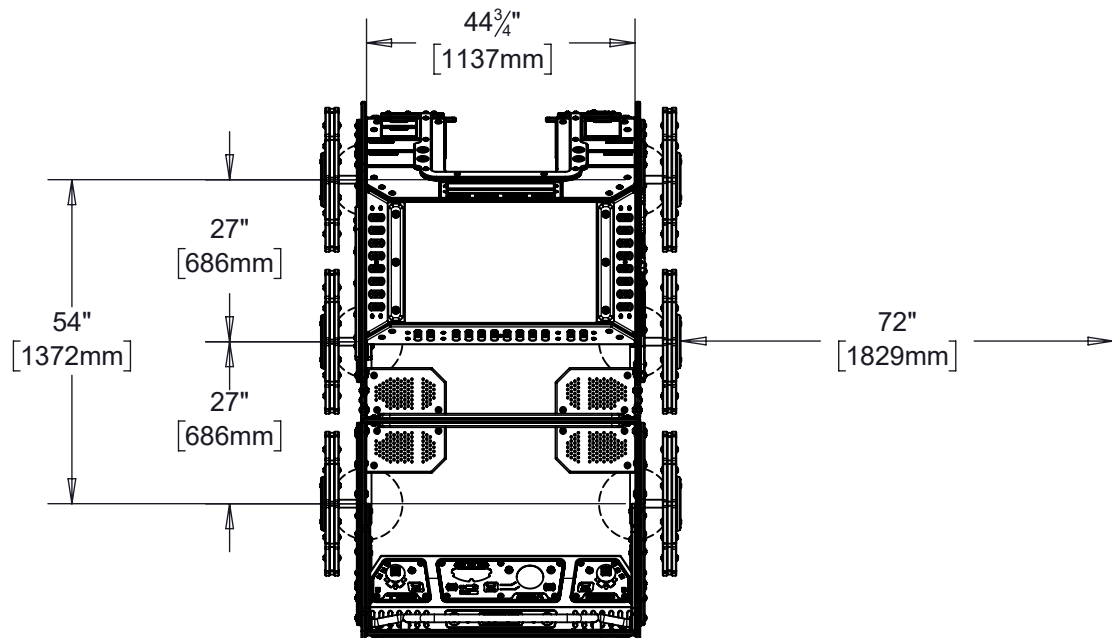
Footing Detail



Top View - Footing Layout
72" [1829mm] Use Zone Recommended

Refer to current ASTM 1487 standards.

The Use Zone for Stationary Play equipment shall be no less than 72" [1829mm] in all directions from the perimeter of the play structure.



Step 2 (Factory Assembled)

Attach Lunar Rover Forward Left Panel Trim and Inserts to Lunar Rover Forward Left Panel as shown in Figure 2. (See Note A)

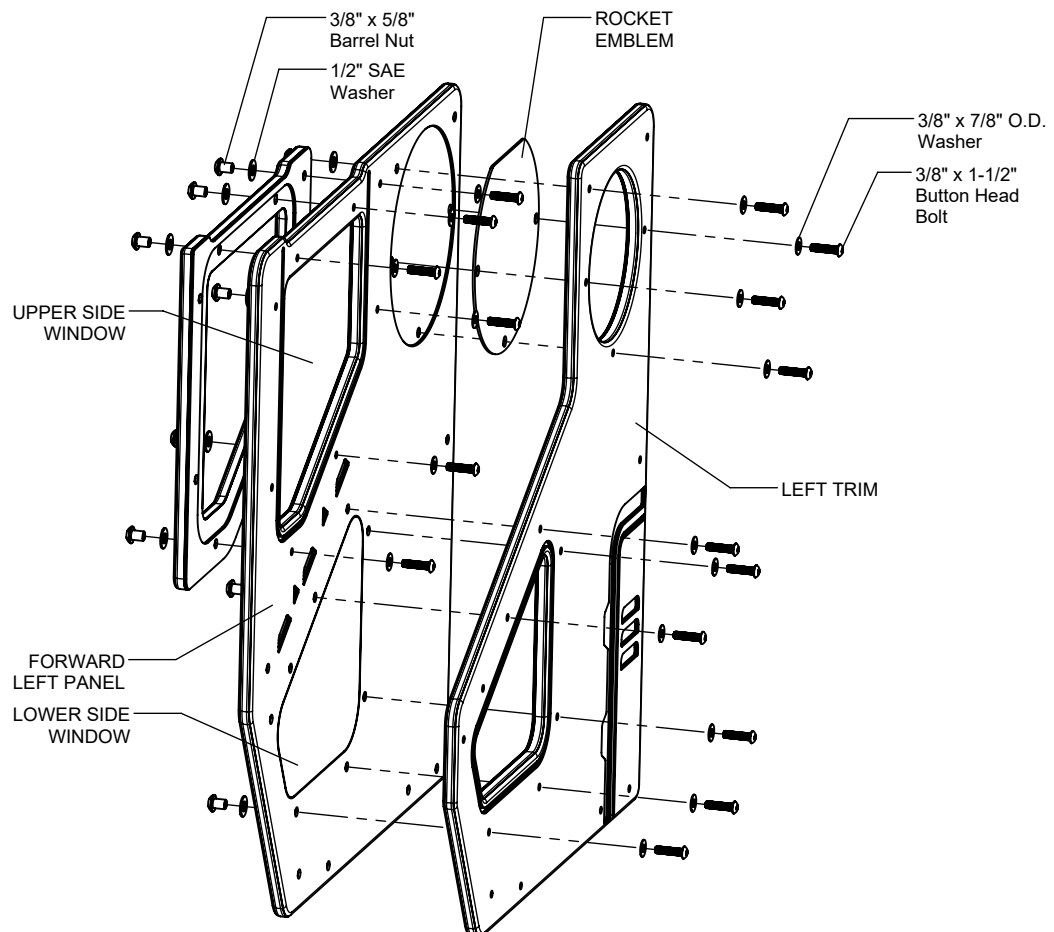


FIGURE 2

Step 3 (Factory Assembled)

Attach Lunar Rover Forward Right Panel Trim-Inserts and Roll Bar to Lunar Rover Forward Right Panel as shown in Figure 3. (See Note A)

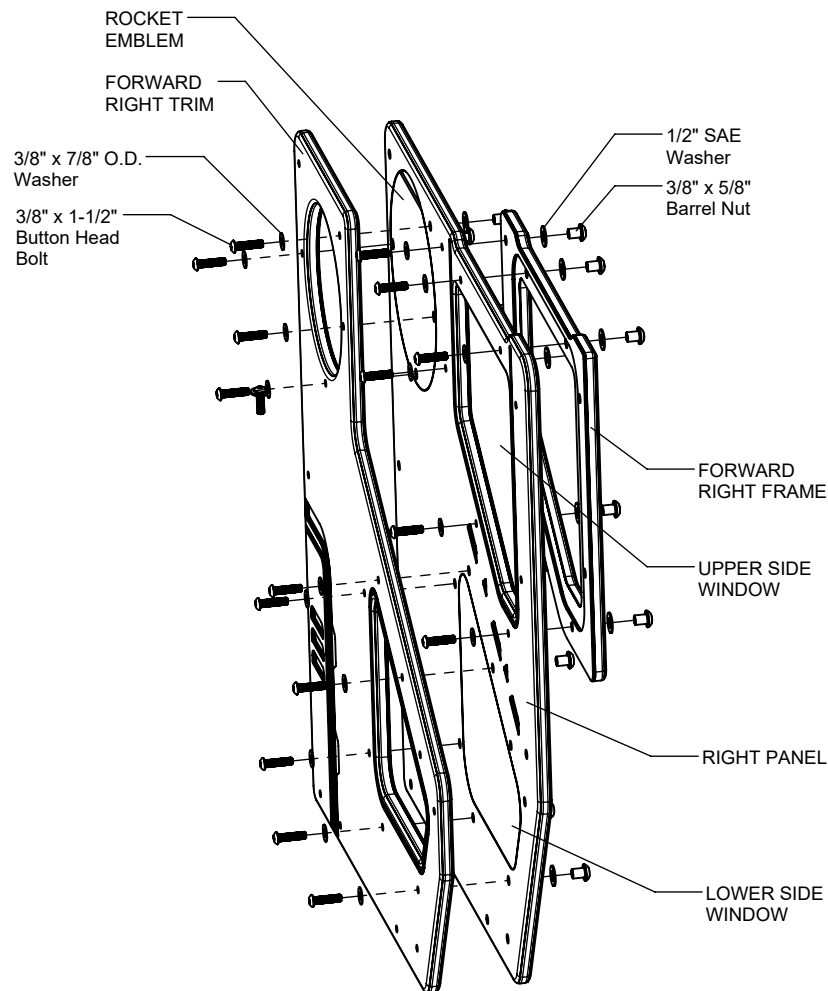


FIGURE 3

Step 4 (Factory Assembled)

Attach Lunar Rover Back Left Panel Trim and Inserts to Lunar Rover Back Left Panel as show in Figure 4. (See Note A)

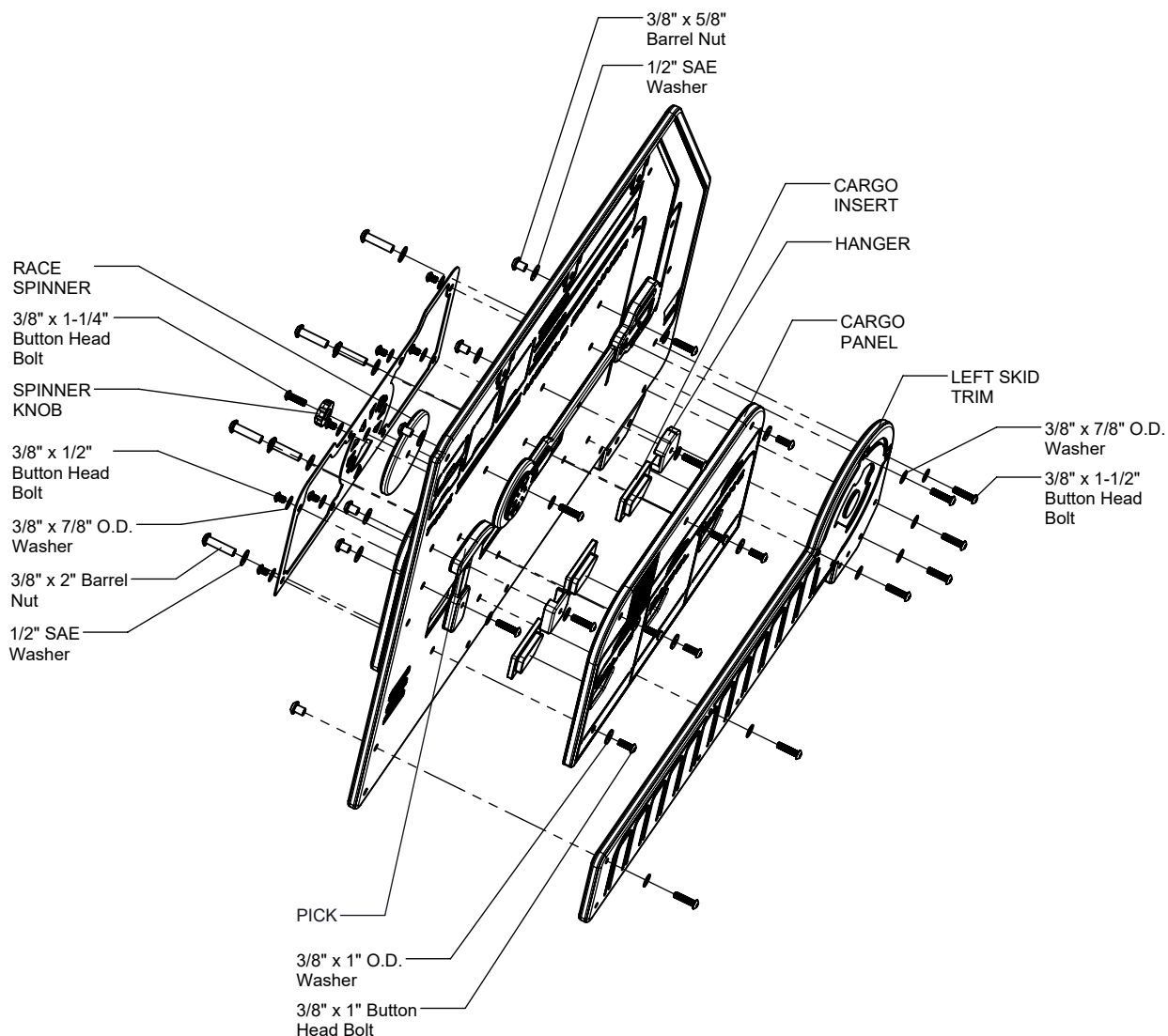


FIGURE 4

Step 5 (Factory Assembled)

Attach Lunar Rover Back Right Panel Trim and Inserts to Lunar Rover Back Right Panel as show in Figure 5. (See Note A)

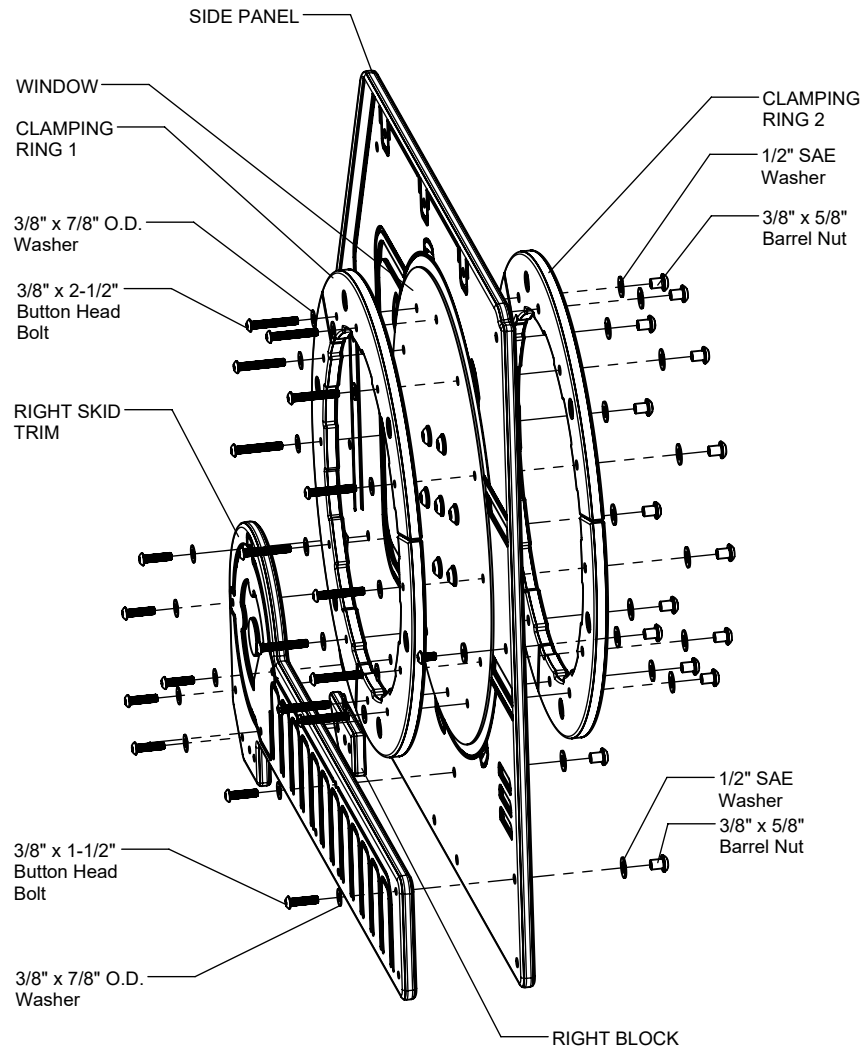


FIGURE 5

Step 6 (Factory Assembled)

Attach Lunar Rover Dashboard Panel Trim and Inserts to Lunar Rover Dashboard as shown in Figure 6. (See Note A)

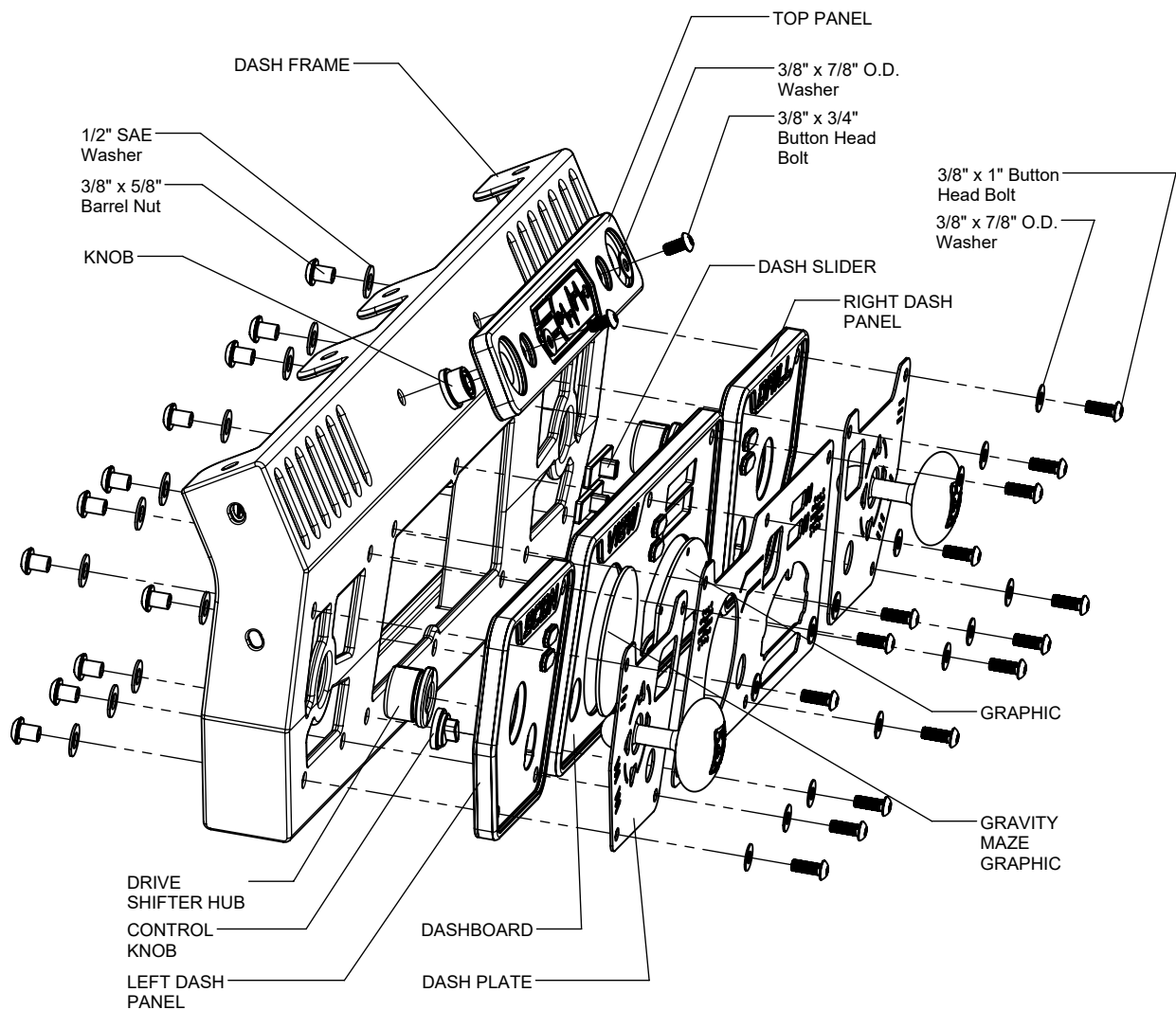


FIGURE 6

Step 7 (Factory Assembled)

Attach Reinforcers & Seat backs to Lunar Rover Partition Panel as shown in Figure 7. (See Note A)

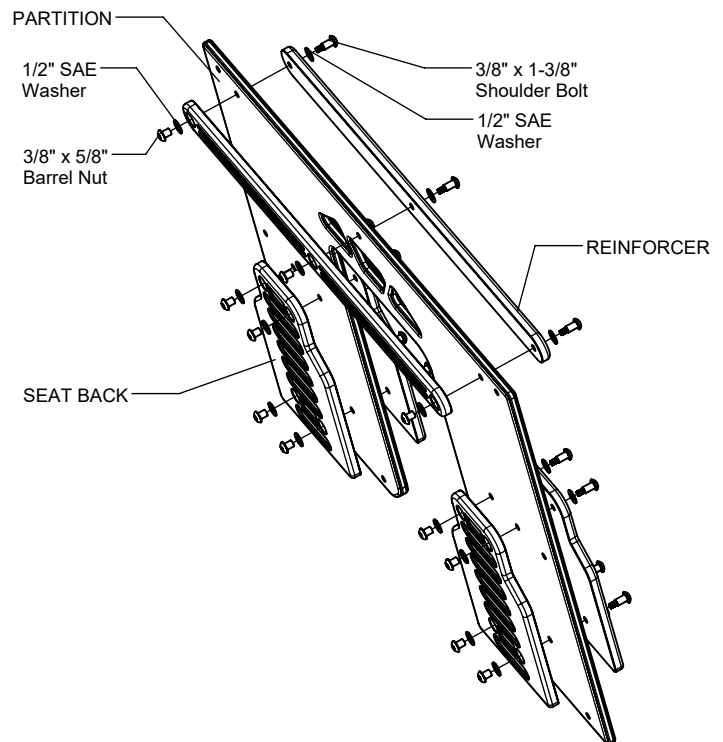


FIGURE 7

Step 8 (Factory Assembled)

Attach Lunar Rover Arch Panel Trim and Inserts to Lunar Rover Arch Panel as show in Figure 8. (See Note A)

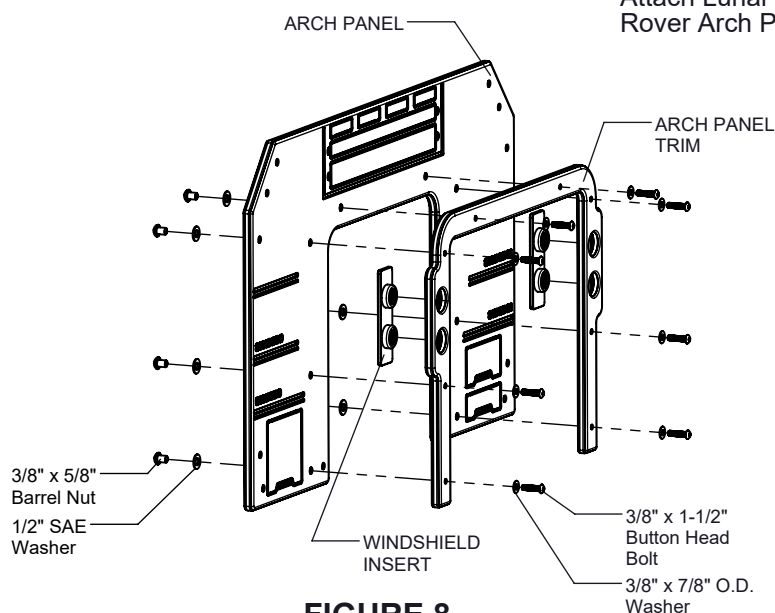


FIGURE 8

Step 9 (Factory Assembled)

Attach Left Spinner Frame & Inserts to Lunar Rover Back Left Seat Panel as show in Figure 9. (See Note A)

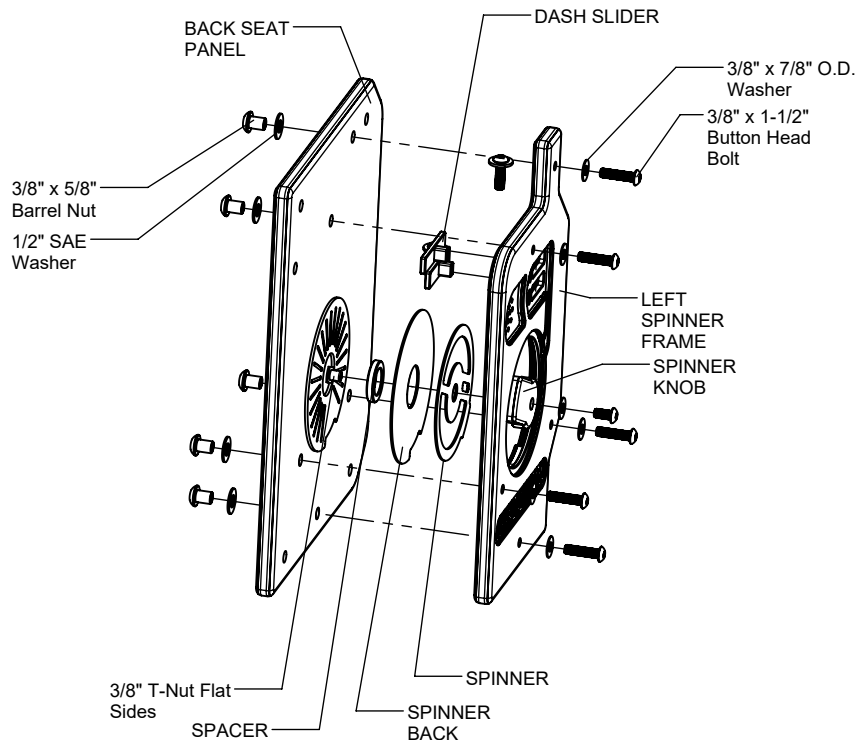


FIGURE 9

Step 10 (Factory Assembled)

Attach Lunar Rover Back Right Seat Panel Trim and Inserts to Lunar Rover Back Right Seat Panel as show in Figure 10. (See Note A)

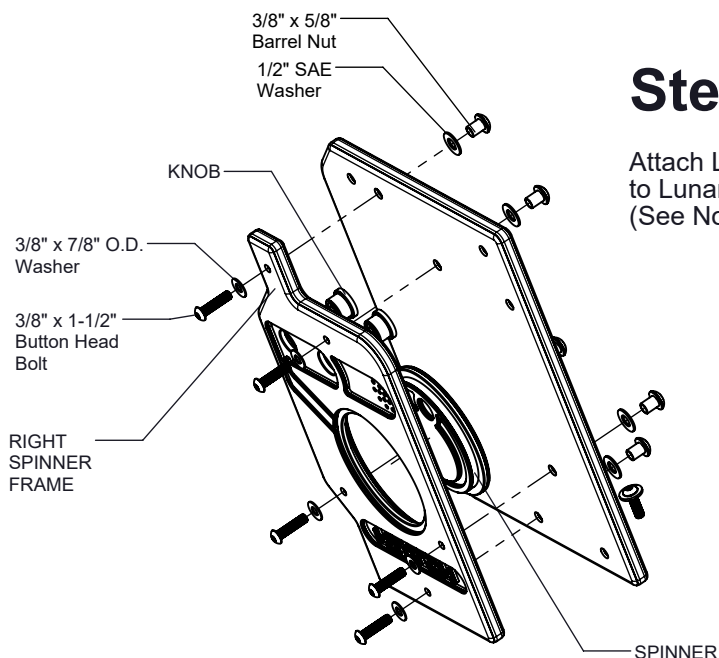


FIGURE 10

Step 11 (Factory Assembled)

Attach Lunar Rover Front Frame Light Covers to Lunar Rover Front Frame as shown in Figure 11. (See Note A)

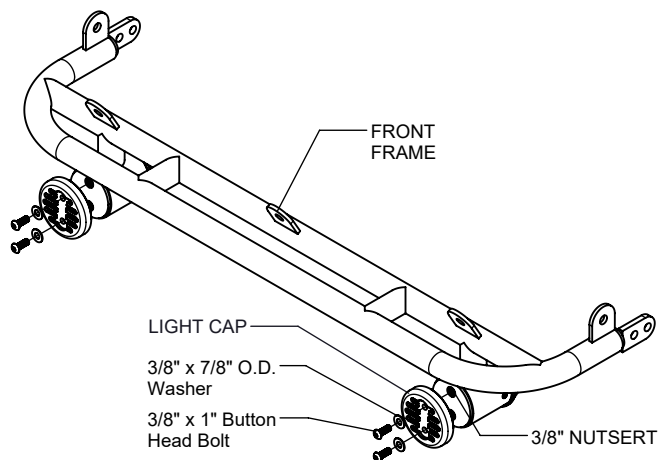


FIGURE 11

Step 12 (Factory Assembled)

Attach Lunar Rover Left Roof Trim and Inserts to Lunar Rover Left Roof Brace as shown in Figure 12. (See Note A)

NOTE: Same assembly for Lunar Rover Right Roof Brace

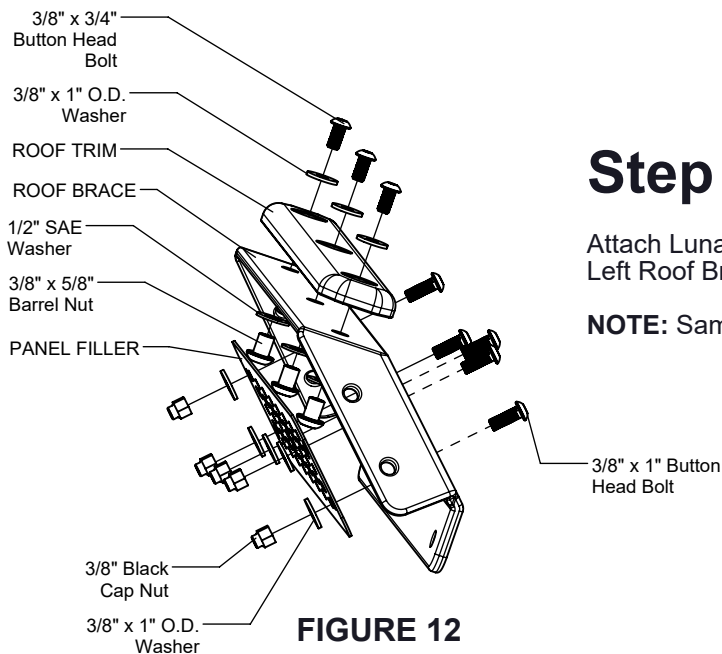


FIGURE 12

Step 13 (Factory Assembled)

Attach Lunar Rover Roof Panel Insert to Lunar Rover Roof Panel as shown in Figure 13. (See Note A)

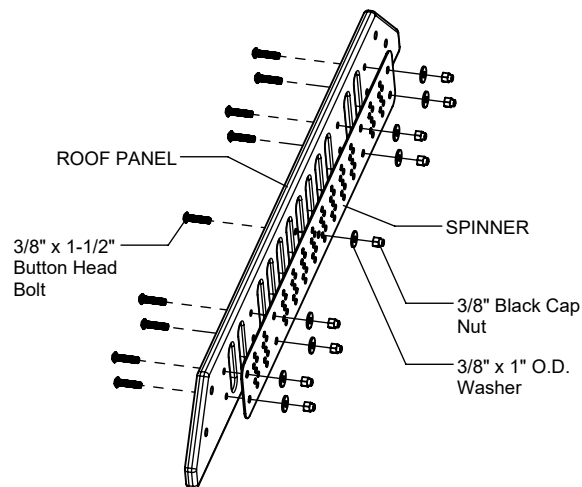


FIGURE 13

Step 14 (Factory Assembled)

Attach Lunar Rover Lower Windshield Trim-Inserts and brackets to Lunar Rover Lower Windshield Panel as shown in Figure 14. (See Note A)

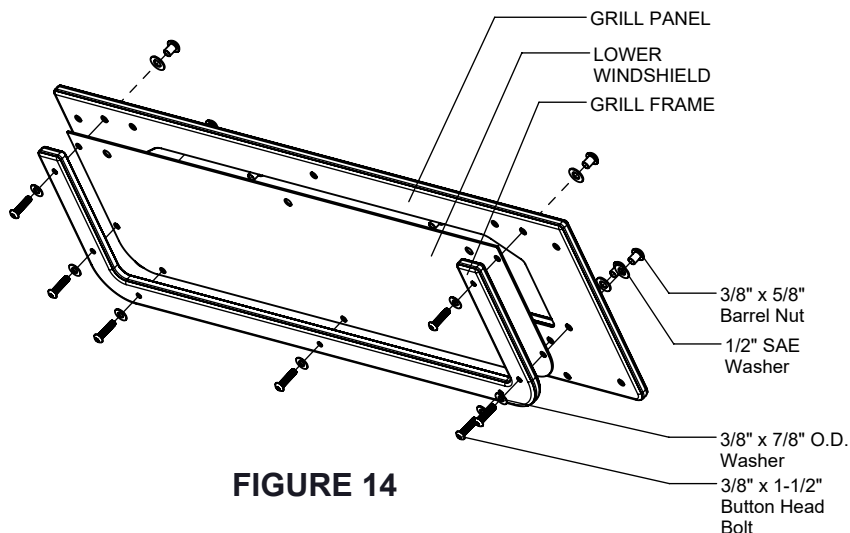


FIGURE 14

Step 15 (Factory Assembled)

Attach Lunar Rover Windshield Trim and Inserts to Lunar Rover Windshield Panel as shown in Figure 15. (See Note A)

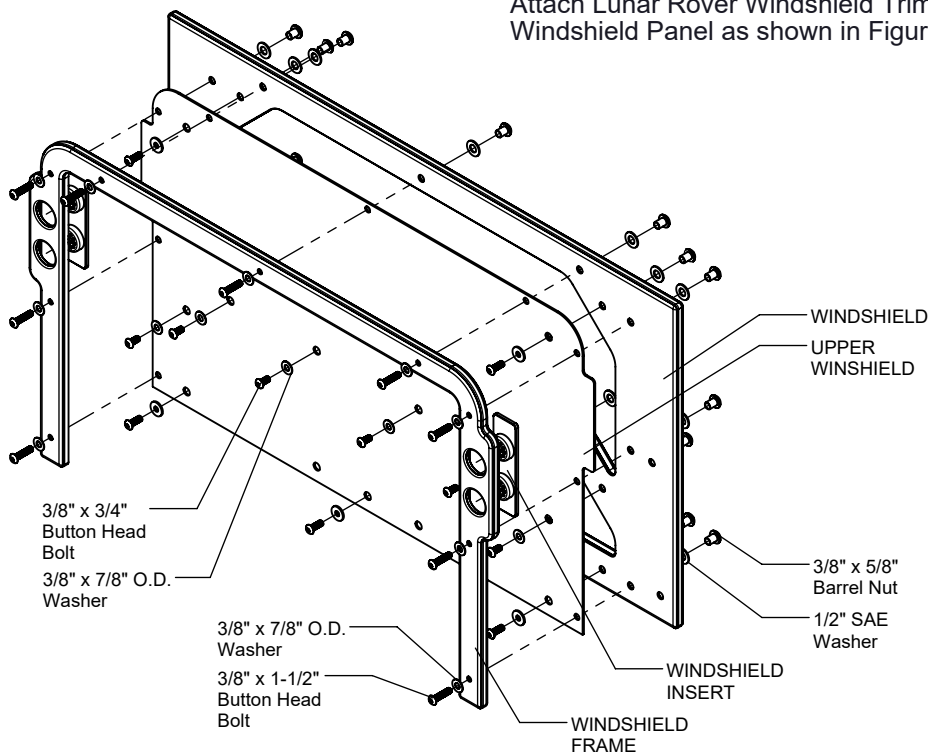


FIGURE 15

Step 16 (Factory Assembled)

Attach Lunar Rover Tire Inserts to Lunar Rover Tire Panel as show in Figure 16. (See Note A)

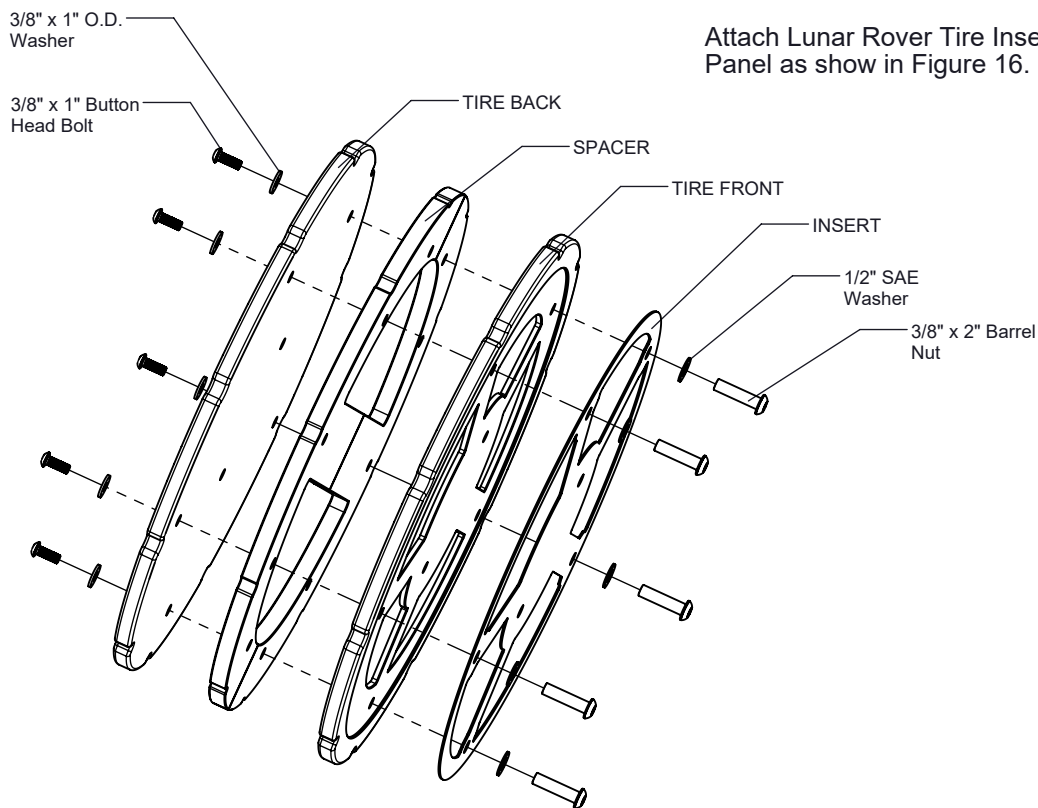


FIGURE 16

Step 17

Attach Lunar Rover Expansion Panel Brackets to Lunar Rover Expansion Panel as shown in Figure 17.

NOTE: Mirror Assembly for oppisite side.

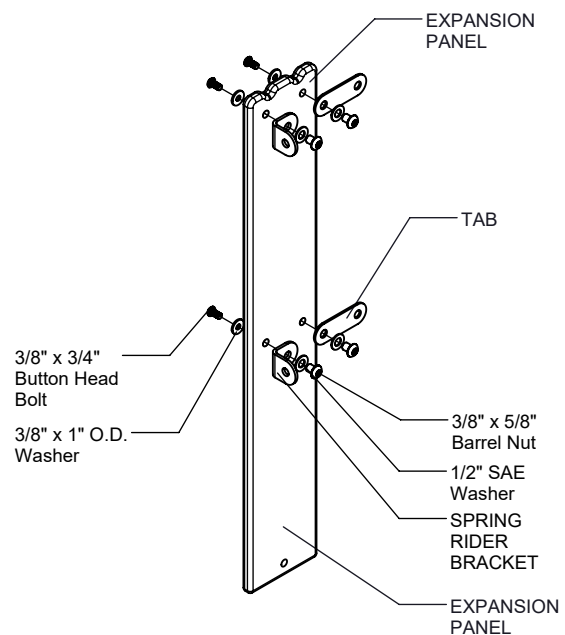


FIGURE 17

Step 18

Attach Lunar Rover Front Frame to Lunar Rover Side Frame as shown in Figure 18.
(See Note A)

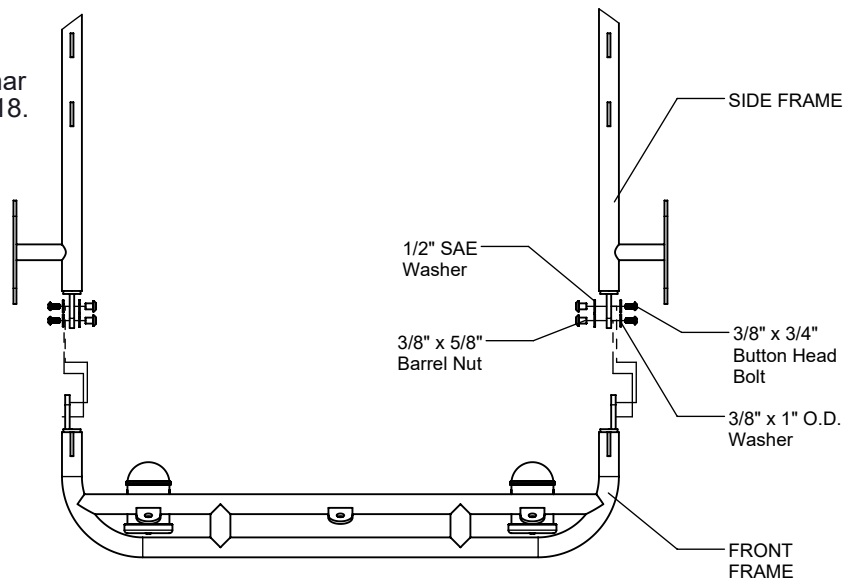


FIGURE 18

Step 19

Attach Lunar Rover Forward Left Panel to Lunar Rover Side Frame Panel as shown in Figure 19. (See Note A)

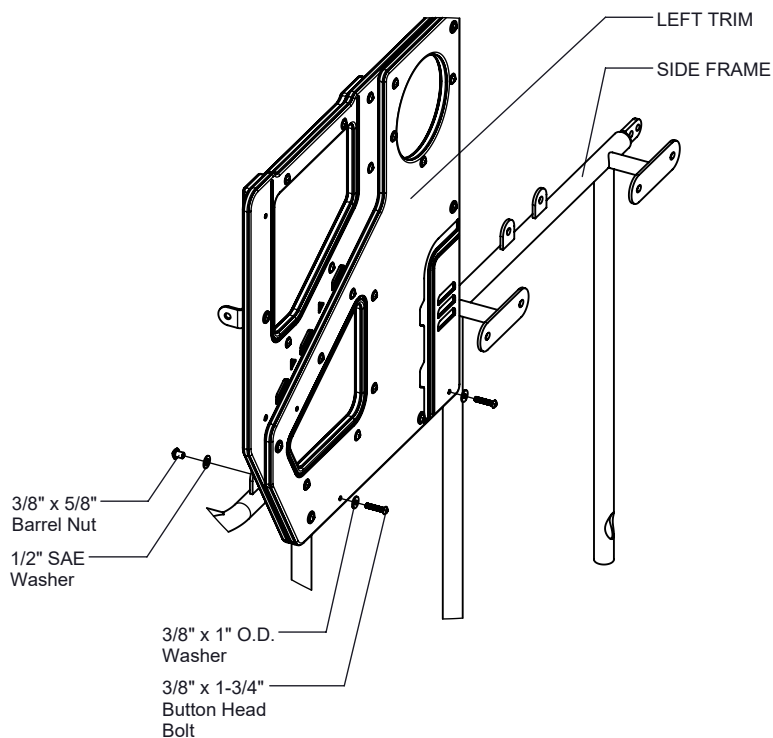


FIGURE 19

Step 20

Attach Lunar Rover Lower Windshield to Lunar Rover Front Frame and Left Forward Panel as show in Figure 20. (See Note A)

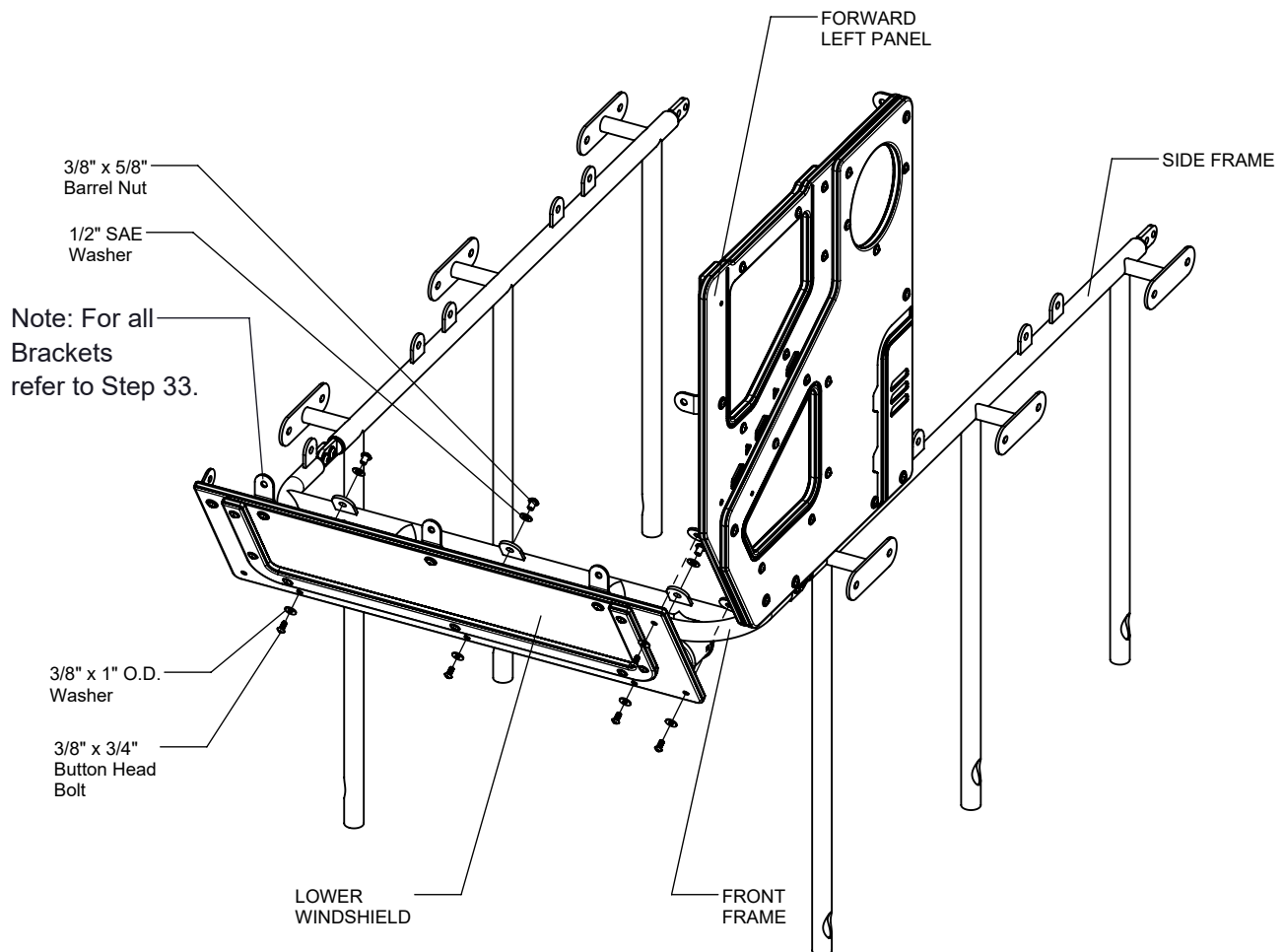


FIGURE 20

Step 21

Attach Moon Rover Forward Left Panel and Roll Bar to Moon Rover Side Frame as show in Figure 21. (See Note A)

Note: For all
Brackets
refer to Step 33.

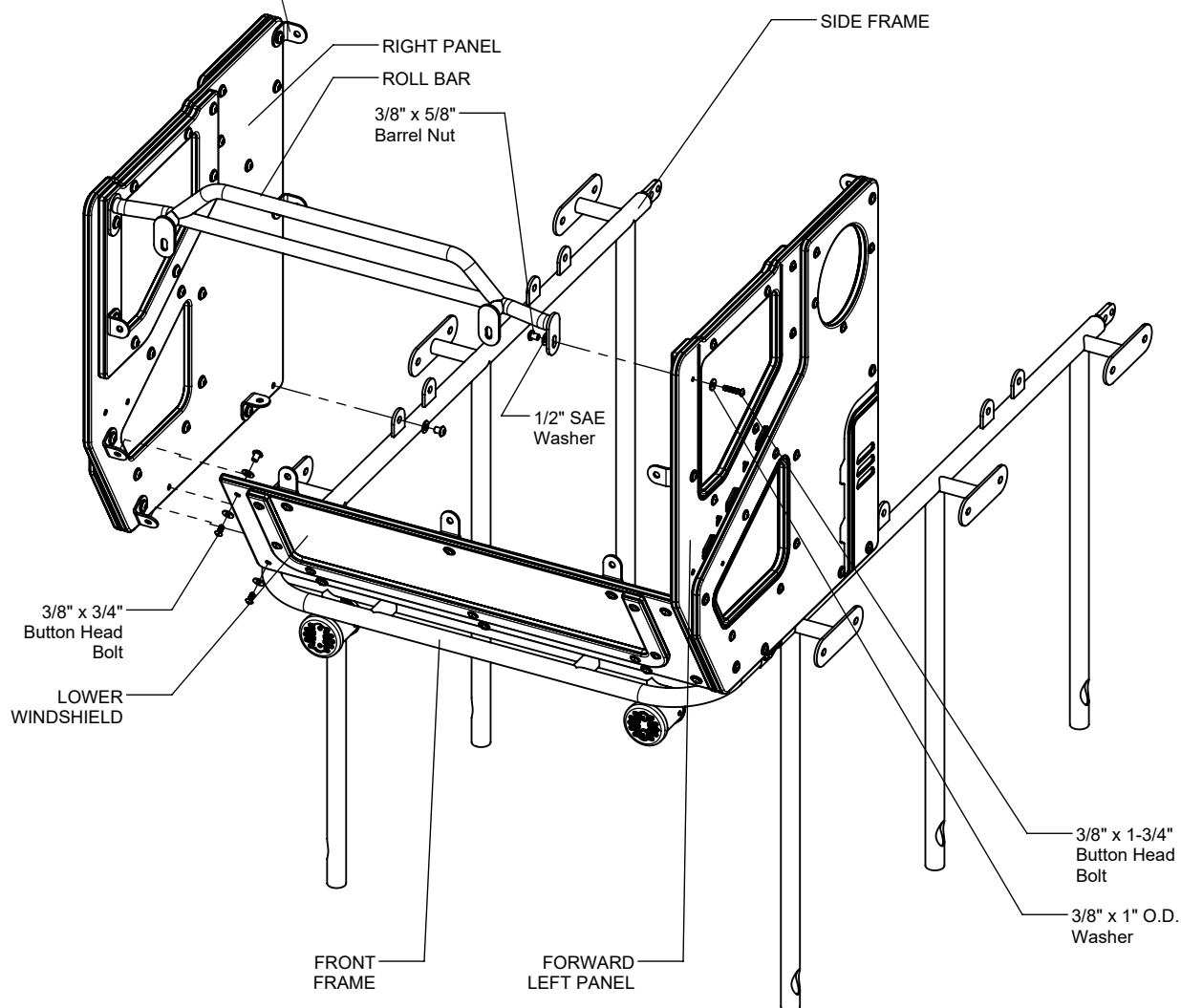


FIGURE 21

Step 22

Attach Lunar Rover Upper Windshield to Lunar Rover Lower Windshield, Forward Side Panels & Roll Bar as shown in Figure 22.
(See Note A)

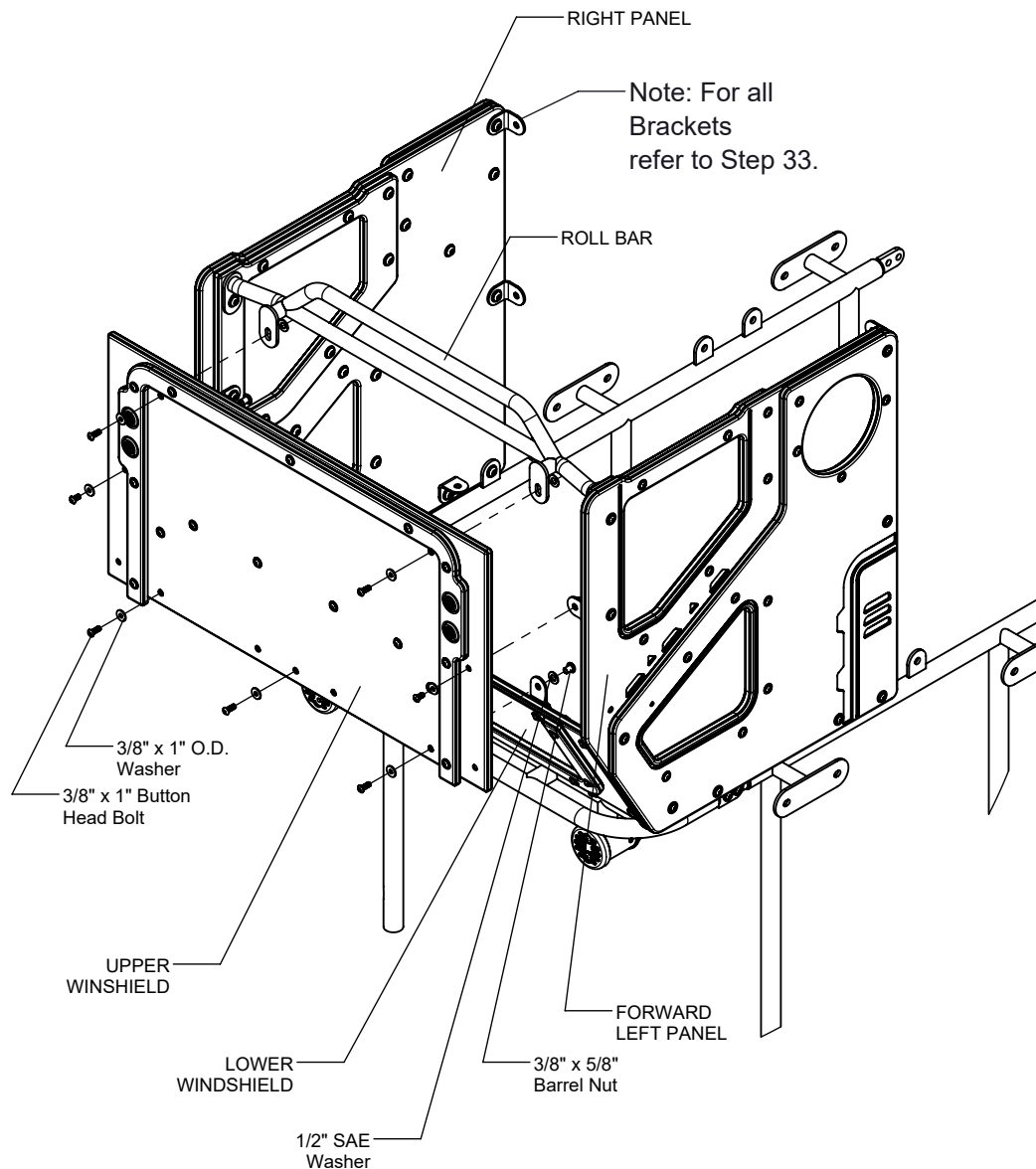
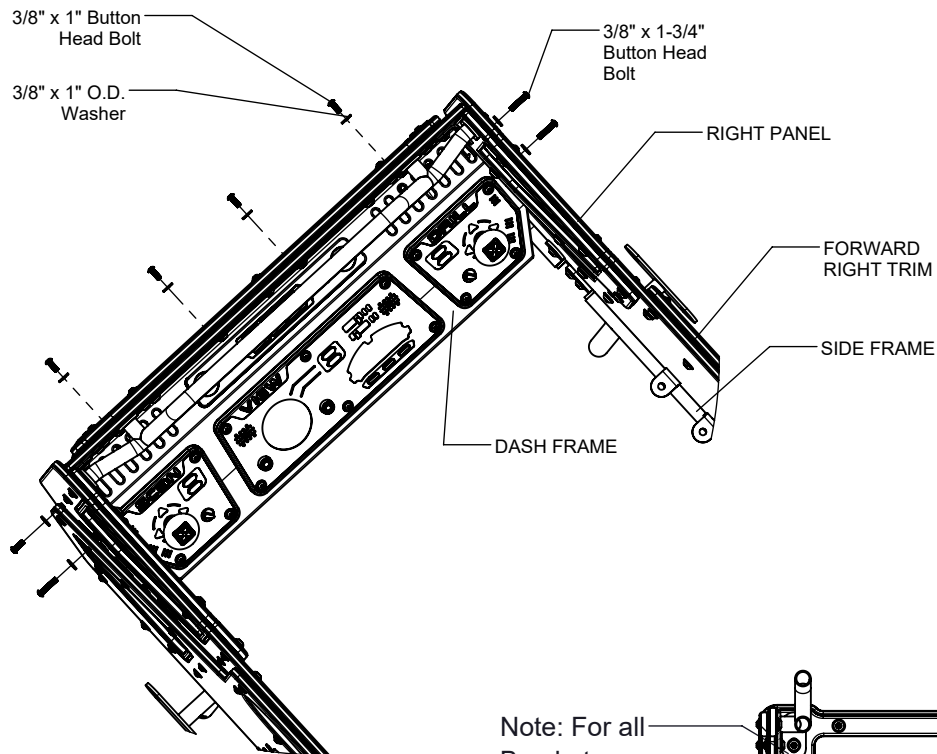


FIGURE 22

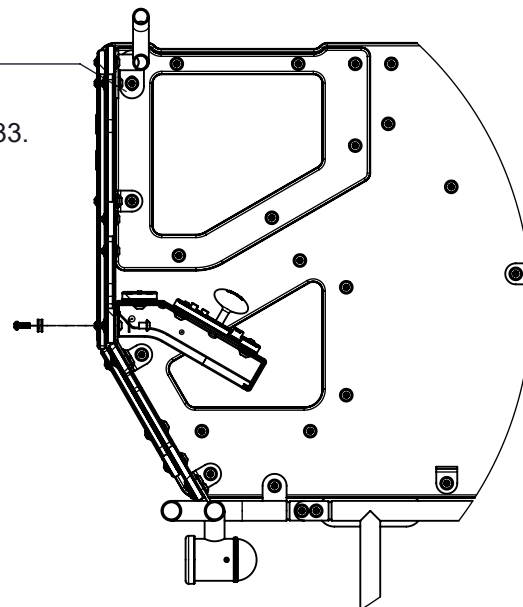
Step 23

Attach Lunar Rover Dashboard to Upper Windshield and Forward Side Panels as shown in Figure 23. (See Note A)

NOTE: Some fastening hardware not shown



Note: For all
Brackets
refer to Step 33.



SECTION VIEW

FIGURE 23

Step 24

Attach Lunar Rover Partition Panel and Expansion Panels to Lunar Rover Forward Panels and Side Frames as shown in Figure 24. (See Note A)

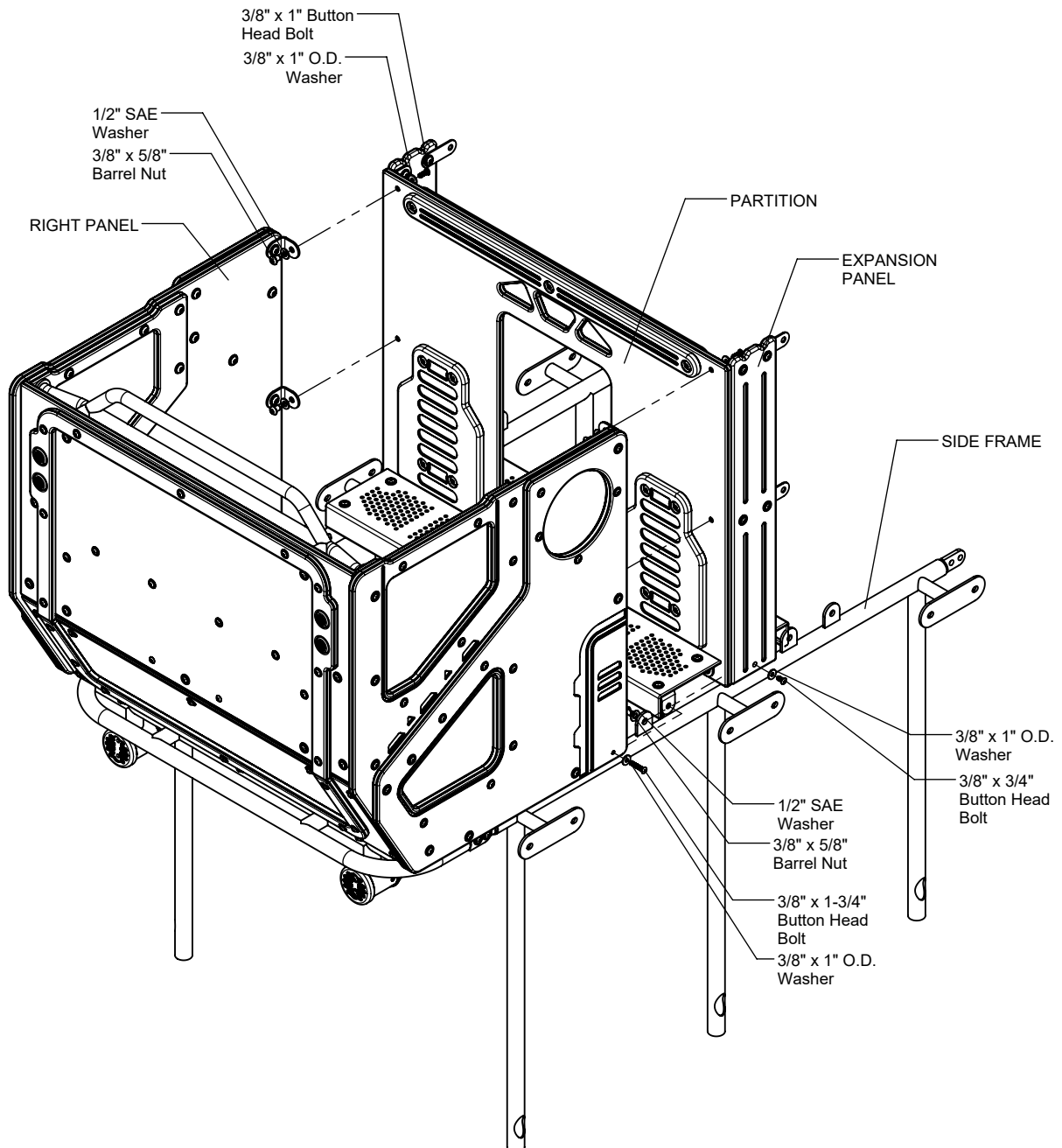


FIGURE 24

Step 25

Attach Lunar Rover Left Rear Panel to Lunar Rover Expansion Panels and Side Frames as show in Figure 25.
(See Note A)

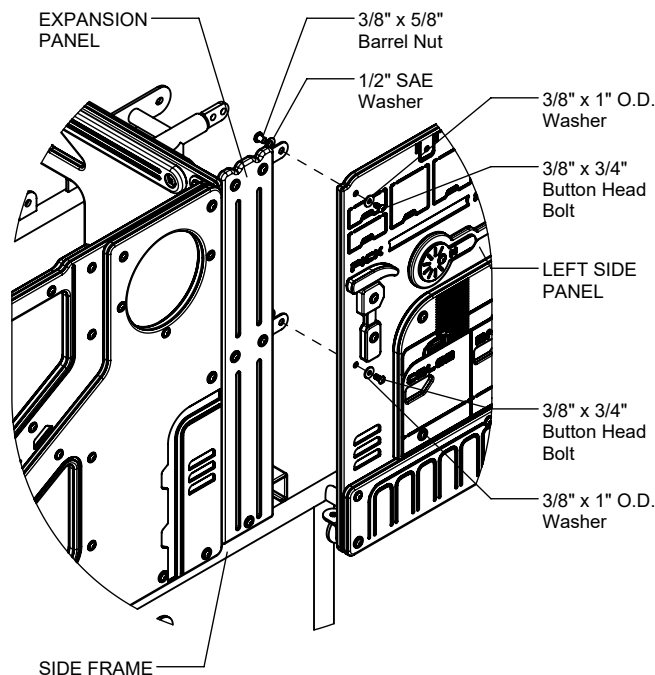


FIGURE 25

Step 26

Attach Lunar Rover Right Rear Panel to Lunar Rover Expansion Panels and Side Frames as show in Figure 26. (See Note A)

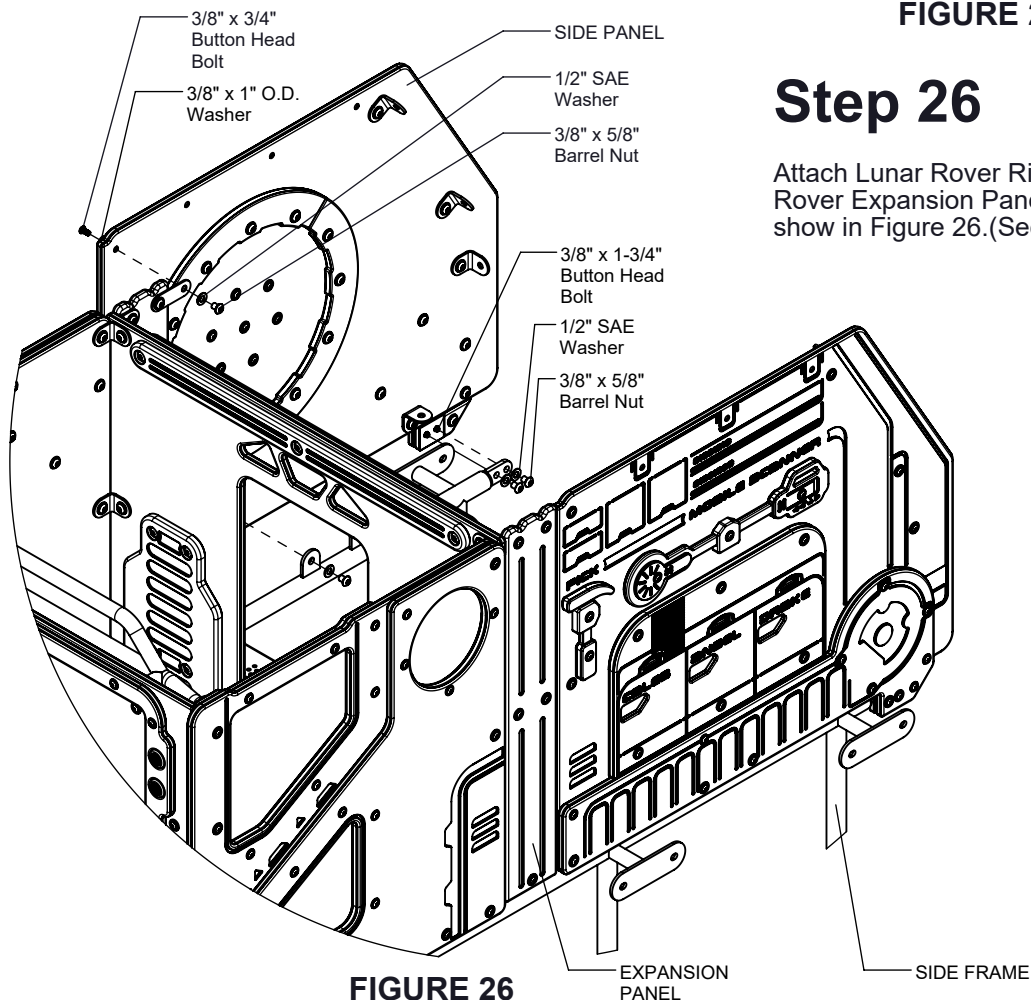


FIGURE 26

Step 27

Attach Lunar Rover Right & Left Rear Seat Panels to Lunar Rover Rear Panels and Side Frames as shown in Figure 27. (See Note A)

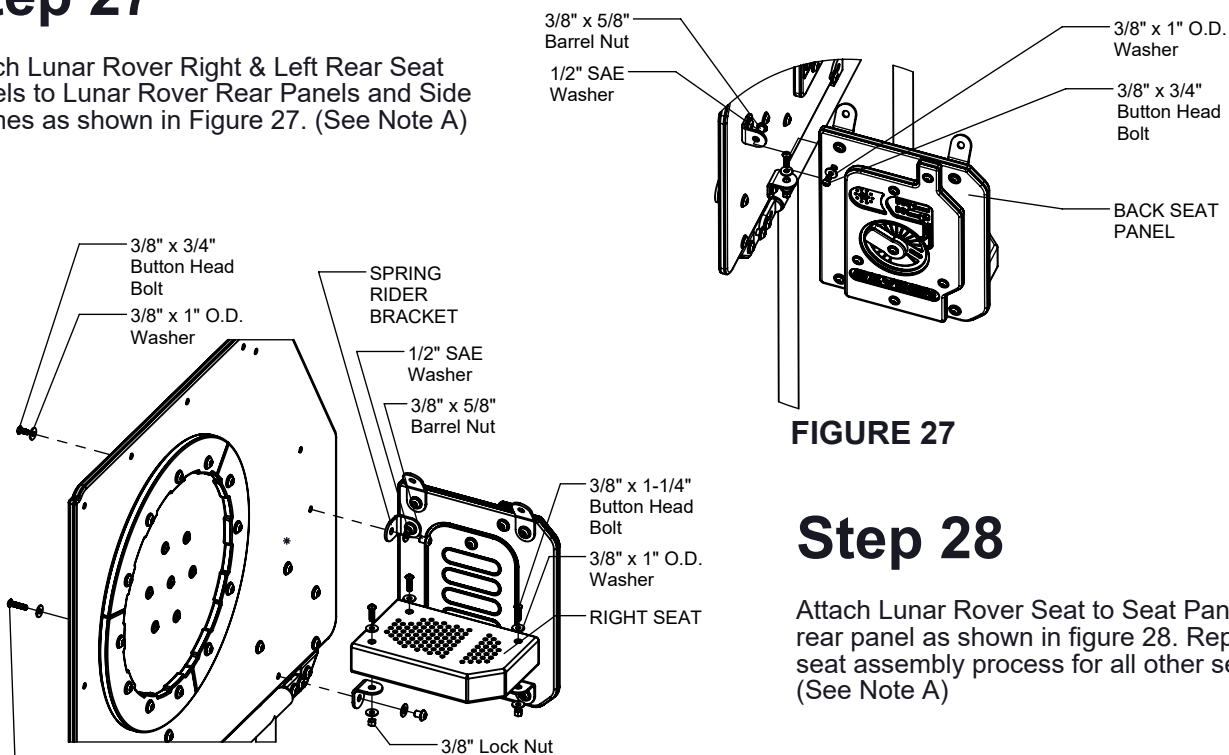


FIGURE 27

Step 28

Attach Lunar Rover Seat to Seat Panel to rear panel as shown in figure 28. Repeat seat assembly process for all other seats. (See Note A)

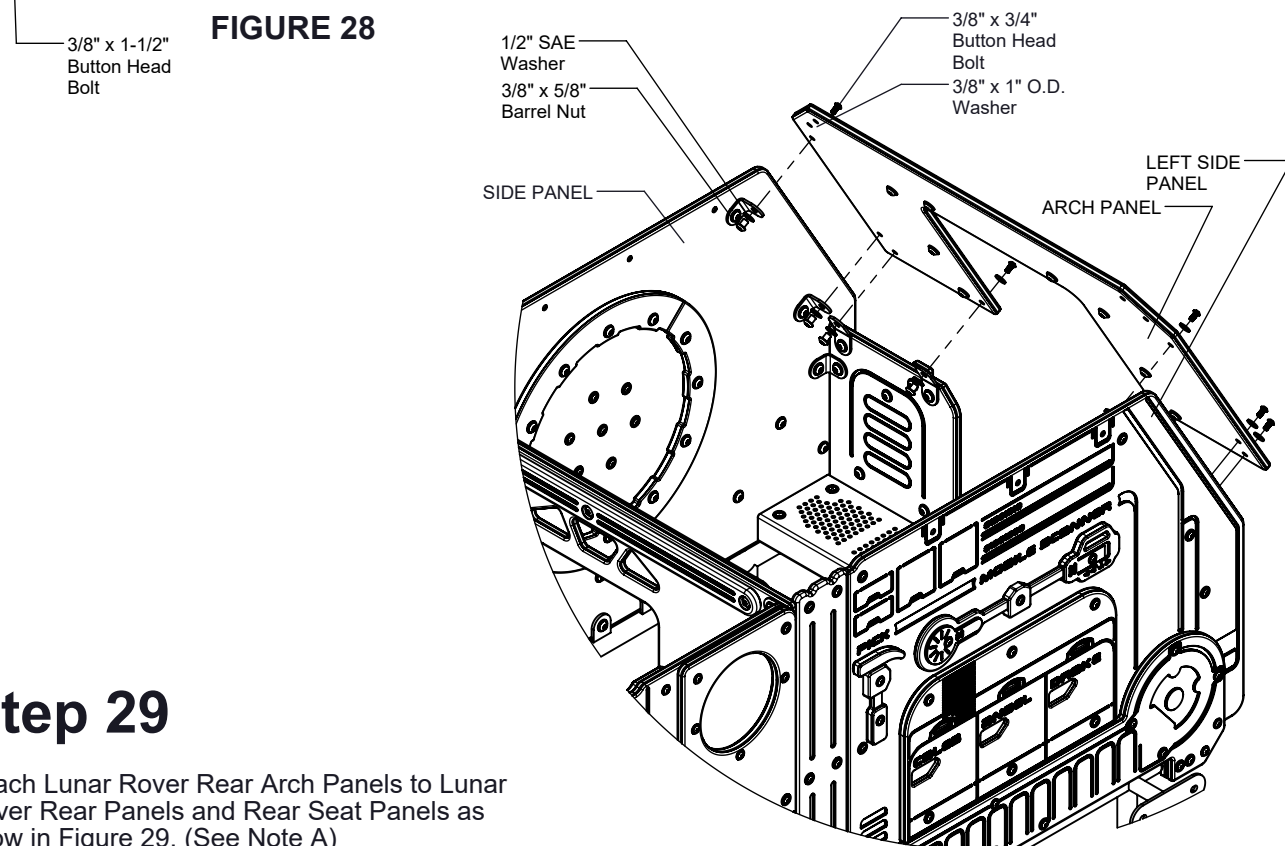


FIGURE 29

Step 29

Attach Lunar Rover Rear Arch Panels to Lunar Rover Rear Panels and Rear Seat Panels as show in Figure 29. (See Note A)

Step 30

Attach Lunar Rover Rear Right and Left Roof Brace Panels to Lunar Rover Rear Panels as show in Figure 30.
(See Note A)

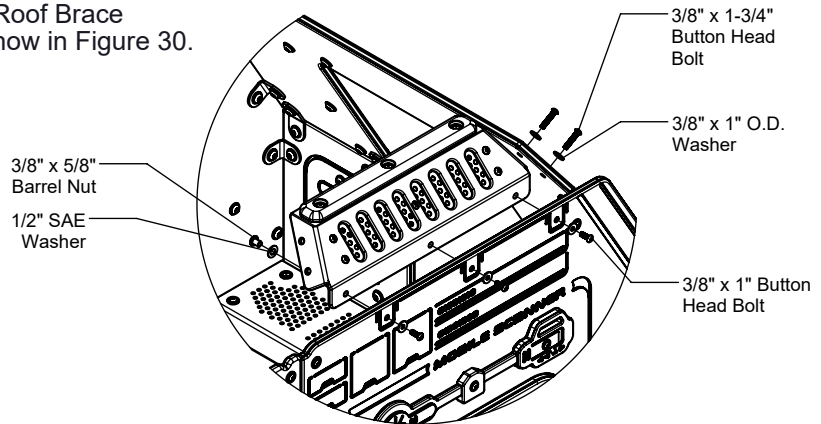


FIGURE 30

Step 31

Attach Lunar Rover Roof Brace Panel to Lunar Rover Rear Panels and Roof Braces as shown in Figure 31.
(See Note A)

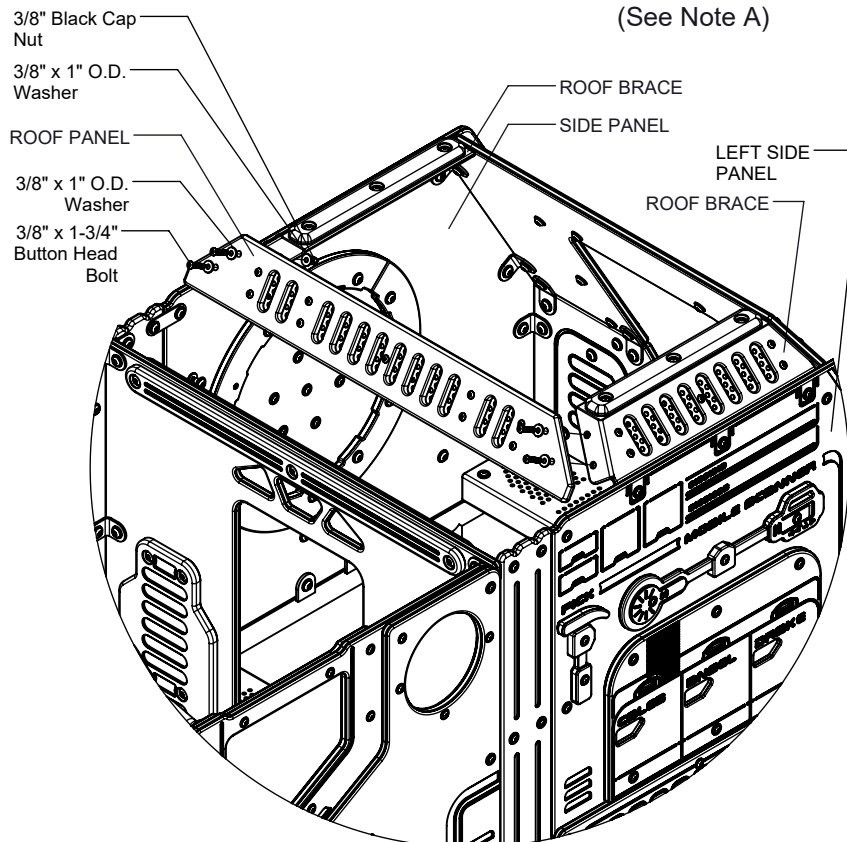


FIGURE 31

Step 32

Attach Lunar Rover Tire Panel to Lunar Rover Side Frames as shown in Figure 32. (See Note A)

NOTE: Attach all Tire Panels the same way.

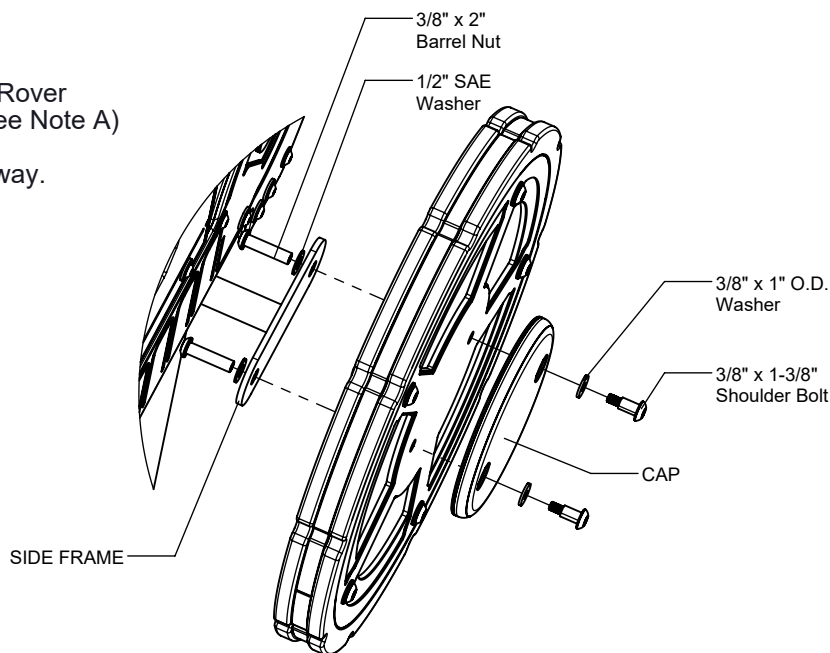


FIGURE 32

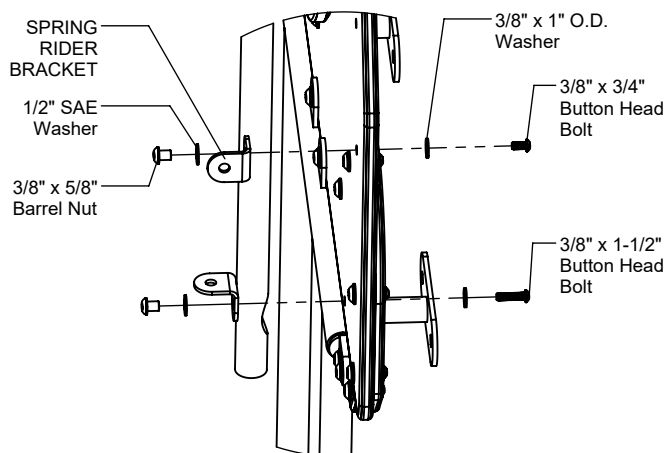


FIGURE 33

Step 33

Attach Brackets to Lunar Rover Panels as needed. Note the different length hardware for different thicknesses in panels as shown in Figure 33. (See Note A)

Step 34

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 35

Plumb and level entire component. Pour concrete into footing hole(s). Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 36

Place required protective surfacing under and around Lunar Rover. (See Note C)

LUNAR ROVER INSTALLATION INSTRUCTIONS

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Assembled Parts List

Part #	DESCRIPTION	QTY.
579000	5/8" Nylon Pinball	10
AE-0737	Command Console Spinner	1
AE-0738	Command Console Spinner Back	1
AE-0903	Lunar Rover Tire Insert	6
AE-0904	Lunar Rover Side Dash Plate	2
AE-0905	Lunar Rover Dash Plate	1
AE-0906	Lunar Rover Roof Panel Filler	1
AE-0907	Lunar Rover Roof Panel Filler	2
AE-0908	Circuit Race Cover	1
AE-4930	Sailboat Tab	2
CE-0908	Lunar Rover Dash Frame	1
CE-0911	Lunar Rover Roof Brace	2
EE-0394	Rocket Gravity Maze Graphic	1
EE-0398	Rocket Emblem Graphic	2
EE-0428	Navigation Console Spinner	1
EE-0430-SP	Command Console Spinner Spacer	1
EE-0431	Command Console Spinner Knob	1
EE-0480-DS	Dash Slider	4
EE-0481	Astro Rider Graphic	1
EE-0558	Lunar Rover Tire Front	6
EE-0559	Lunar Rover Tire Spacer	12
EE-0561	Lunar Rover Arch Panel	1
EE-0562	Lunar Rover Left Side Panel	1
EE-0563	Lunar Rover Right Side Panel	1
EE-0564	Lunar Rover Cargo Panel	1
EE-0565	Lunar Rover Grill Panel	1
EE-0566	Lunar Rover Forward Left Panel	1
EE-0567	Lunar Rover Left Back Seat Panel	1
EE-0568	Lunar Rover Left Block	1
EE-0569	Lunar Rover Forward Left Frame	1
EE-0570	Lunar Rover Left Skid Trim	1
EE-0571	Lunar Rover Forward Left Trim	1
EE-0572	Lunar Rover Mobile Scanner	1
EE-0573	Lunar Rover Partition	1
EE-0574	Lunar Rover Pick	1
EE-0575	Lunar Rover Forward Right Panel	1
EE-0576	Lunar Rover Right Back Seat Panel	1
EE-0577	Lunar Rover Right Block	1
EE-0578	Lunar Rover Forward Right Frame	1
EE-0579	Lunar Rover Right Skid Trim	1
EE-0580	Lunar Rover Forward Right Trim	1
EE-0581	Lunar Rover Roof Panel	1
EE-0582	Lunar Rover Windshield	1
EE-0583	Lunar Rover Lower Side Window	2
EE-0584	Lunar Rover Lower Windshield	1
EE-0585	Lunar Rover Spinner Cover	1
EE-0586	Lunar Rover Upper Side Window	2
EE-0587	Lunar Rover Upper Windshield	1
EE-0588	Lunar Rover Light Cap	2
EE-0589	Lunar Rover Windshield Insert	4
EE-0591	Lunar Rover Reinforcer	2
EE-0592	Lunar Rover Roof Trim	2

Part #	DESCRIPTION	QTY.
EE-0593	Lunar Rover Arch Panel Trim	1
EE-0594	Lunar Rover Display Panel	1
EE-0595	Lunar Rover Grill Frame	1
EE-0596	Lunar Rover Left Dash Panel	1
EE-0597	Lunar Rover Left Spinner Frame	1
EE-0598	Lunar Rover Right Dash Panel	1
EE-0599	Lunar Rover Right Spinner Frame	1
EE-0600	Lunar Rover Top Panel	1
EE-0601	Lunar Rover Windshield Frame	1
EE-0602	Lunar Rover Dashboard	1
EE-0603	Lunar Rover Knob	6
EE-0604	Lunar Rover Control Knob	2
EE-0605	Lunar Rover Hanger	2
EE-0606	Lunar Rover Seat Back	4
EE-0607	Lunar Rover Cargo Insert	3
EE-0608	Lunar Rover Spinner Knob	1
EE-0609	Circuit Race Spinner	1
EE-0610	Circuit Race Knob	2
EE-0621	Lunar Rover Tire Back	6
EE-4291	Pin Ball Panel Window	2
EG-8161-C	Pin Ball Circle Deflector	2
EG-8161-CP	Pin Ball Center Deflector	1
EG-8161-CR1	Pin Ball Clamping Ring 1	3
EG-8161-CR2	Pin Ball Clamping Ring 2	3
EG-8161-R	Pin Ball Rotator	1
EG-8161-S	Pin Ball Square Deflector	2
EG-8161-T	Pin Ball Triangle Deflector	2
FS-PC1056-FF	Lunar Rover Front Frame	1
GG-8135	Post Cap R3.5 Dome	2
IE-0086	Drive Shifter	2
IE-0087	Drive Shifter Hub	2
452302	T-Nut 3/8" with Spikes	9
452303	T-Nut 3/8" Flat Sides (Roto)	1
455110	Nutsert 3/8 x .690	4
481000	Roller Bearing 1/2"x1-3/8"x7/16" thick	6
564000	Flange Bearing	12
9103012-TR	Bolt Button Head 3/8" x 1/2"	8
9103032-TR	Bolt Button Head 3/8" x 3/4"	37
9103052-TR	Bolt Button Head 3/8" x 1"	78
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	9
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	106
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	7
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	12
9143062-TR	Bolt Shoulder 3/8" x 1-3/8" BH	11
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	189
9333042	Washer Flat 3/8" x 7/8" O.D.	132
9345002	Washer Flat SAE 1/2"	231
9413002	Nut Lock 3/8"	8
9413162-BLK	Nut Lock 3/8" w/ Black Cap	26
9443022-TR	Nut Barrel 3/8" x 5/8" BH	184
9443092-TR	Nut Barrel 3/8" x 2" BH	36
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	4



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Parts List

Part #	DESCRIPTION	QTY.
BE-4466	Spring Rider Bracket	39
BE-4466-30	Spring Rider Bracket 30°	7
CE-0909	Lunar Rover Left Seat	3
CE-0910	Lunar Rover Right Seat	3
EE-0560	Lunar Rover Tire Cap	6
EE-0590	Lunar Rover Expansion Panel	2
FS-PC1056-RB	Lunar Rover Rollbar	1
FS-PC1056-SF	Lunar Rover Side Frame	2
9103032-TR	Bolt Button Head 3/8" x 3/4"	25
9103052-TR	Bolt Button Head 3/8" x 1"	21
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	14
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	28
9143062-TR	Bolt Shoulder 3/8" x 1-3/8" BH	12
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	121
9345002	Washer Flat SAE 1/2"	78
9413002	Nut Lock 3/8"	14
9413162-BLK	Nut Lock 3/8" w/ Black Cap	8
9443022-TR	Nut Barrel 3/8" x 5/8" BH	66
9443092-TR	Nut Barrel 3/8" x 2" BH	12

Specifications

LUNAR ROVER DASH, ROOF BRACE & SEATS:

Shall be fabricated using punched, formed and welded 12 gauge sheet steel, reinforcing cross members, and gussets. The Decks & Steps shall be Play-Tuff™ coated after fabrication.

LUNAR ROVER PANELS, SEATS, & TIRE SETS:

Shall be made from high density 3/4" sheet plastic specially formulated for optimum UV stability and color retention.

LUNAR ROVER SIDE FRAME:

Shall be fabricated using 1.660" O.D. 11 gauge steel tubing with welded 3/16" thick steel mounting tab. The Moon Rover side frame shall have a multi-stage baked-on powder coat finish.

LUNAR ROVER FRONT FRAME:

Shall be fabricated using 1.660" O.D. 11 gauge steel tubing with welded 3.5" O.D. 11 gauge steel tubing, 3/16" & 1/4" steel tabs. The Moon Rover Front Frame shall have a multi-stage baked-on powder coat finish.

SPRING RIDER BRACKET & CASTLE TAB:

Shall be precision laser-cut and formed from 3/16" thick sheet steel. The Spring Rider Bracket and Castle Tab shall have a multi-stage baked-on powder coat finish.

DRIVE SHIFTER:

Shall be machined from \varnothing 3-3/4" high strength aluminum alloy. The Drive Shifter shall have a multi-stage baked-on powder coat finish.

WHEEL INSERT & MOON ROVER ACCENT PIECES:

Shall be precision laser-cut from 14 gauge sheet steel. The Wheel Insert shall have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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