

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.

FIGURE 1
 Panel Pal Roto R5

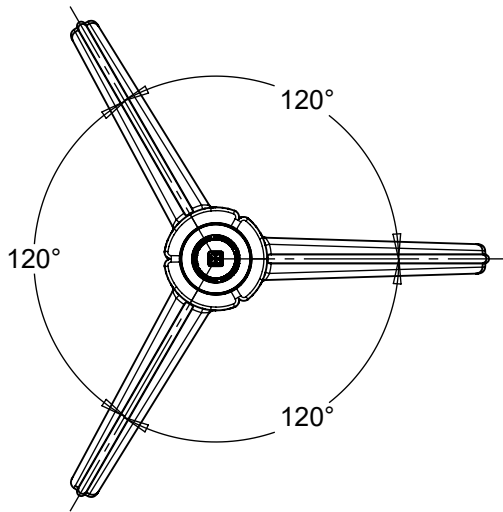


FIGURE 2
 3 Frame Single Post Configuration

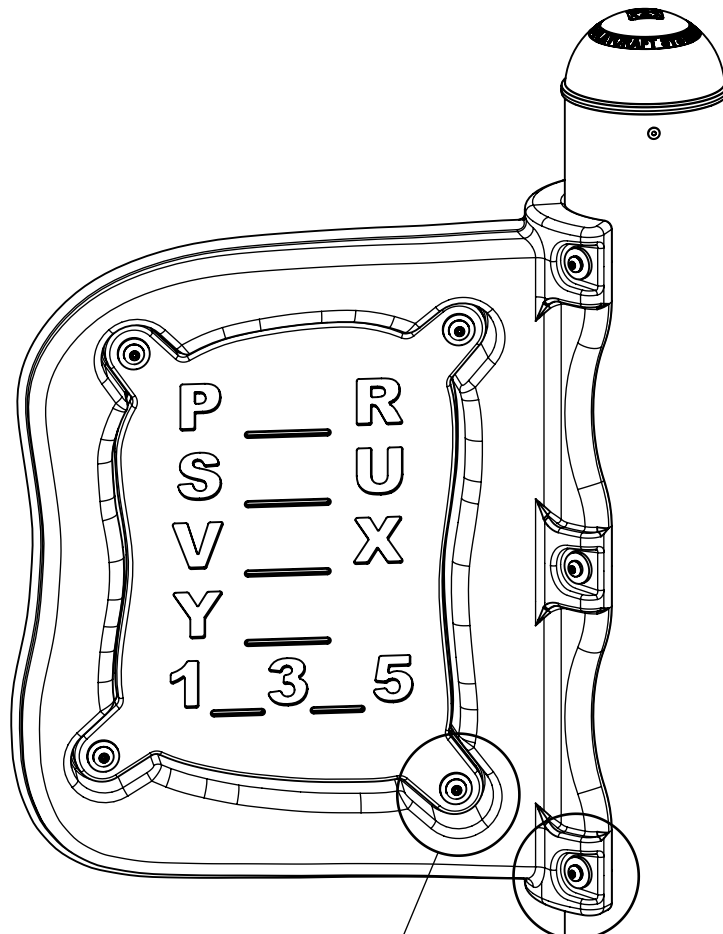


Figure 1.1

Figure 1.2

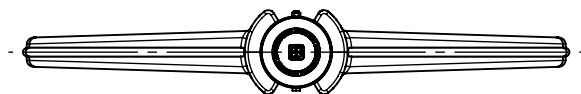


FIGURE 3
 2 Frame Single Post Configuration

Bell Panel

Step 2 (Factory Assembled)

Attach Small Bell and Hammer to Bell Panel Pal as shown in Figure 4. (See Note A)

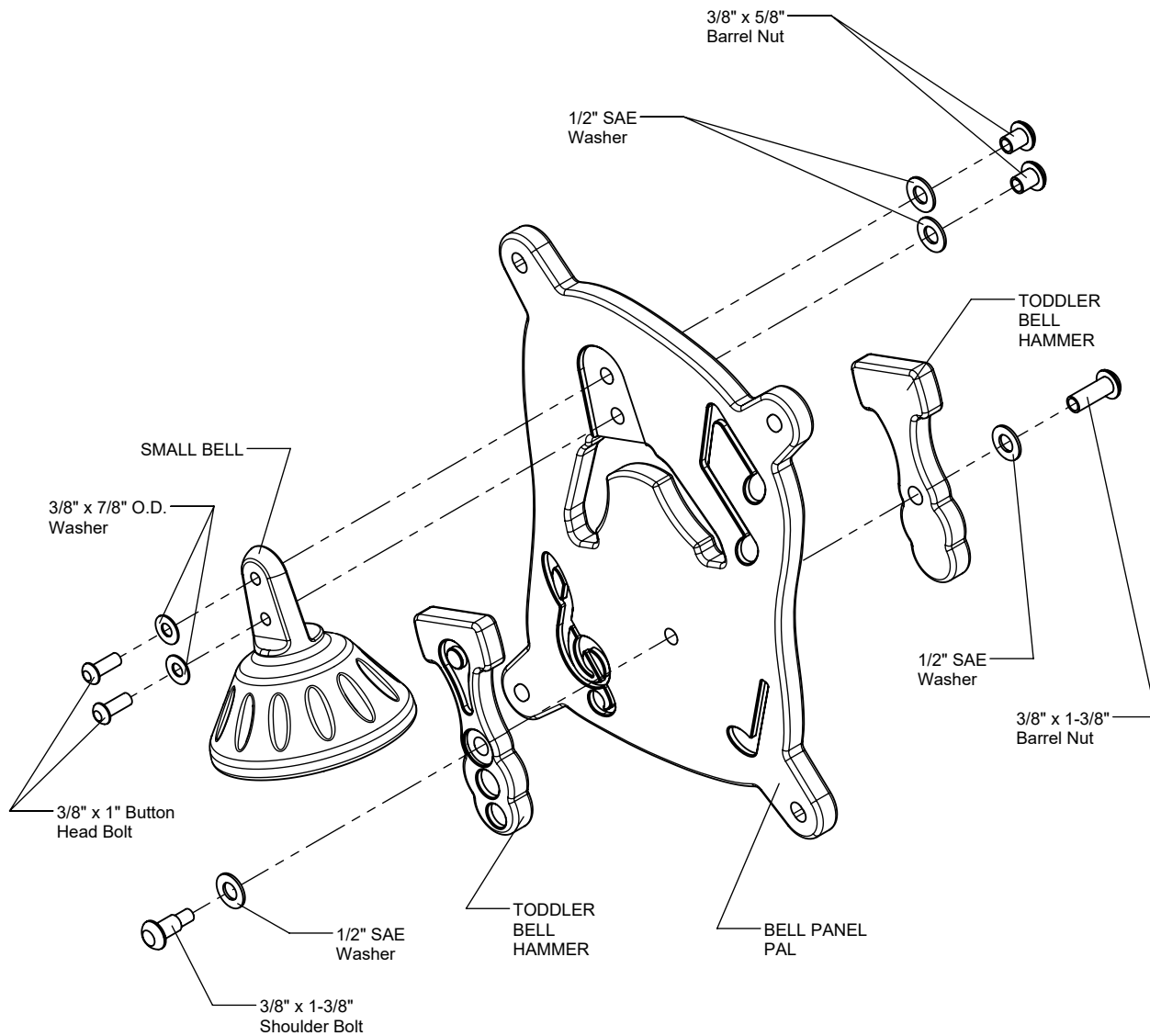


FIGURE 4

Tic-Tac-Toe Panel

Step 3 (Factory Assembled)

Attach Panel Knobs to Panel Pal Tic Tac Toe as shown in Figure 5. (See Note A)

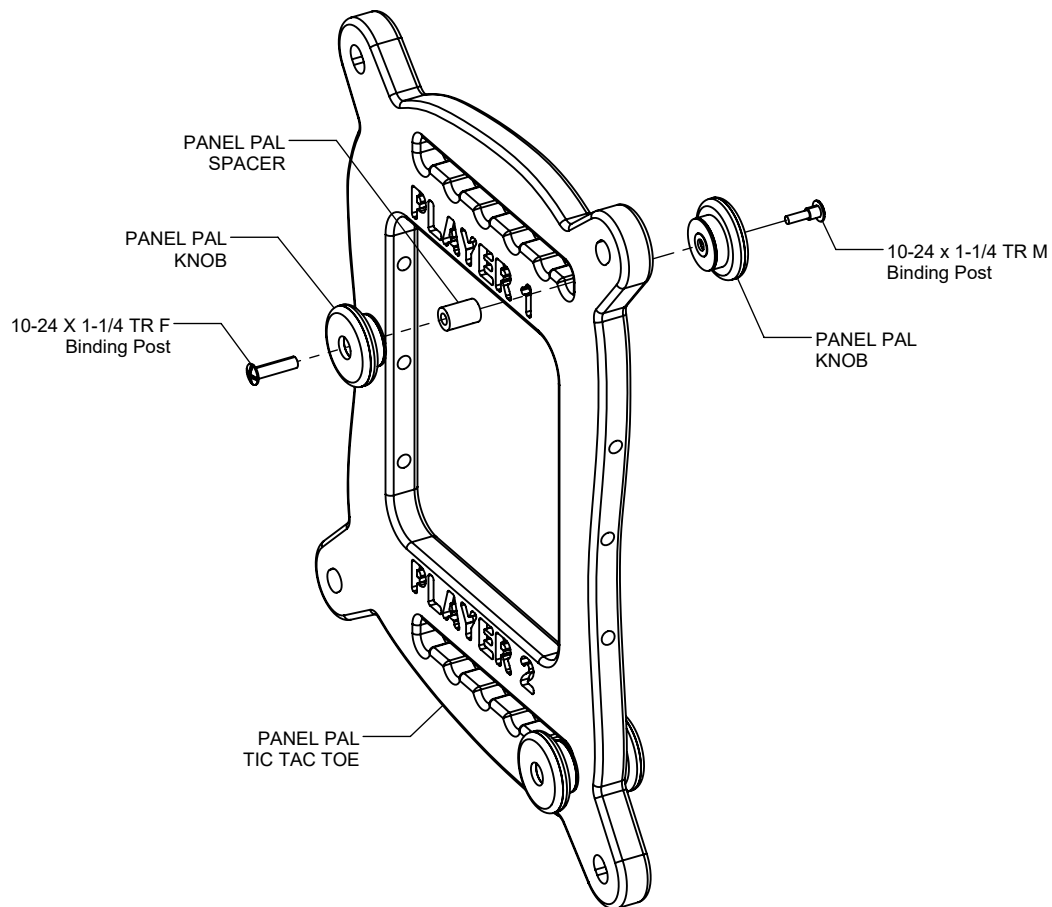


FIGURE 5

Step 4 (Factory Assembled)

Attach Tic Tac Toe Pieces to Panel Pal Tic Tac Toe as shown in Figures 6a and 6b.

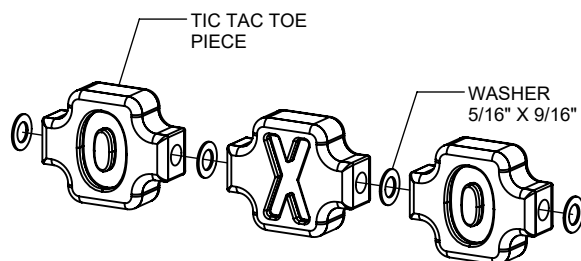


FIGURE 6a

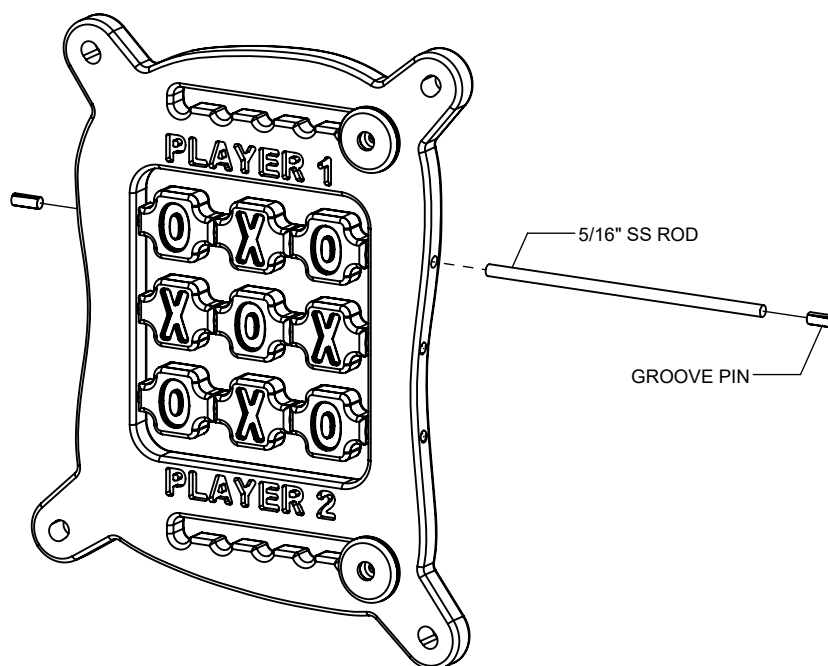


FIGURE 6b

Dialer Panel

Step 5 (Factory Assembled)

Attach Panel Knobs to Panel Pal Dialer as shown in Figure 7. (See Note A)

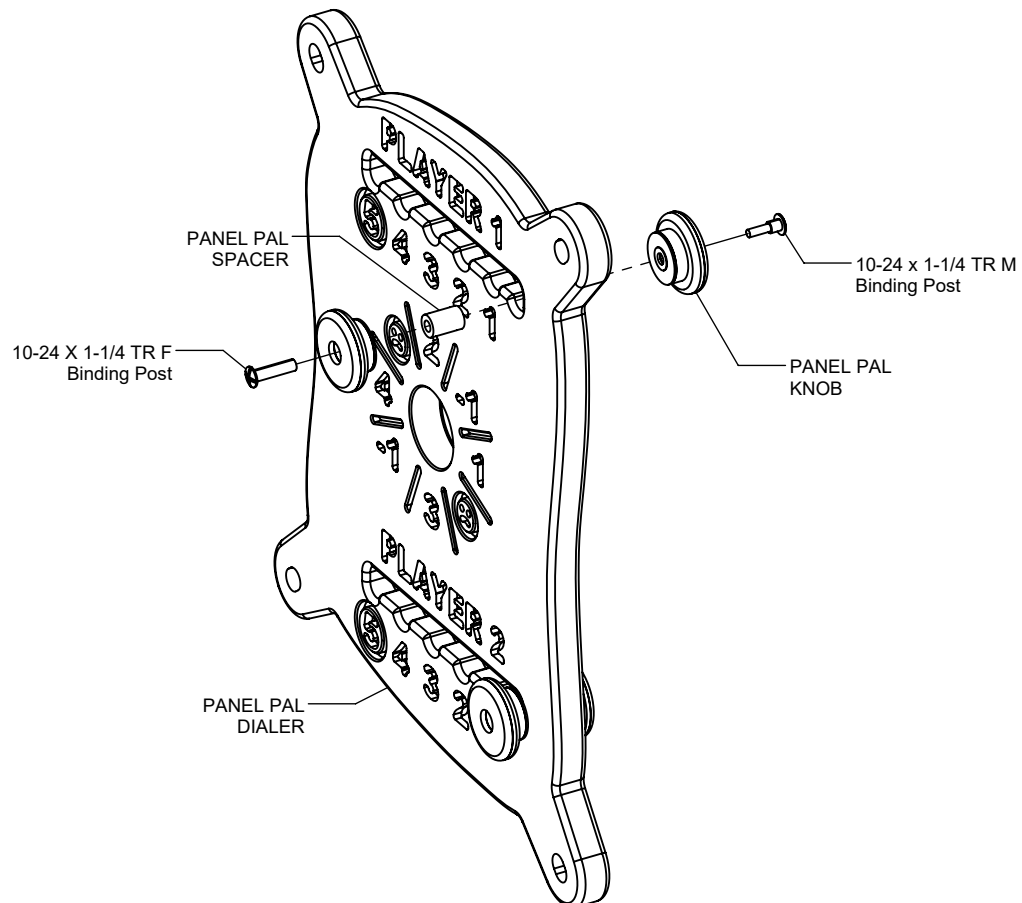


FIGURE 7

Step 6 (Factory Assembled)

Press Roll Pin Slot into Panel Pal Spinner Spacer as shown in Figure 8.



FIGURE 8

Step 7 (Factory Assembled)

Attach Spinner and Spinner Spacer to Panel Pal Dialer as shown in Figure 9. (See Note A)

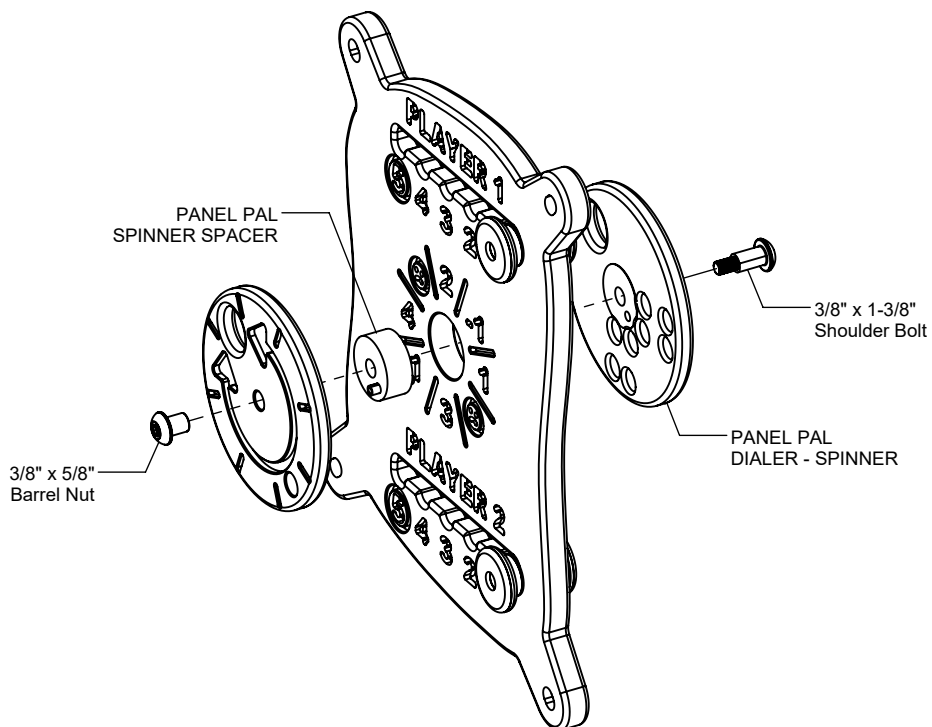


FIGURE 9

Spinner Panel

Step 8 (Factory Assembled)

Attach Spinners to Panel Pal Spinner as shown in Figure 10. (See Note A)

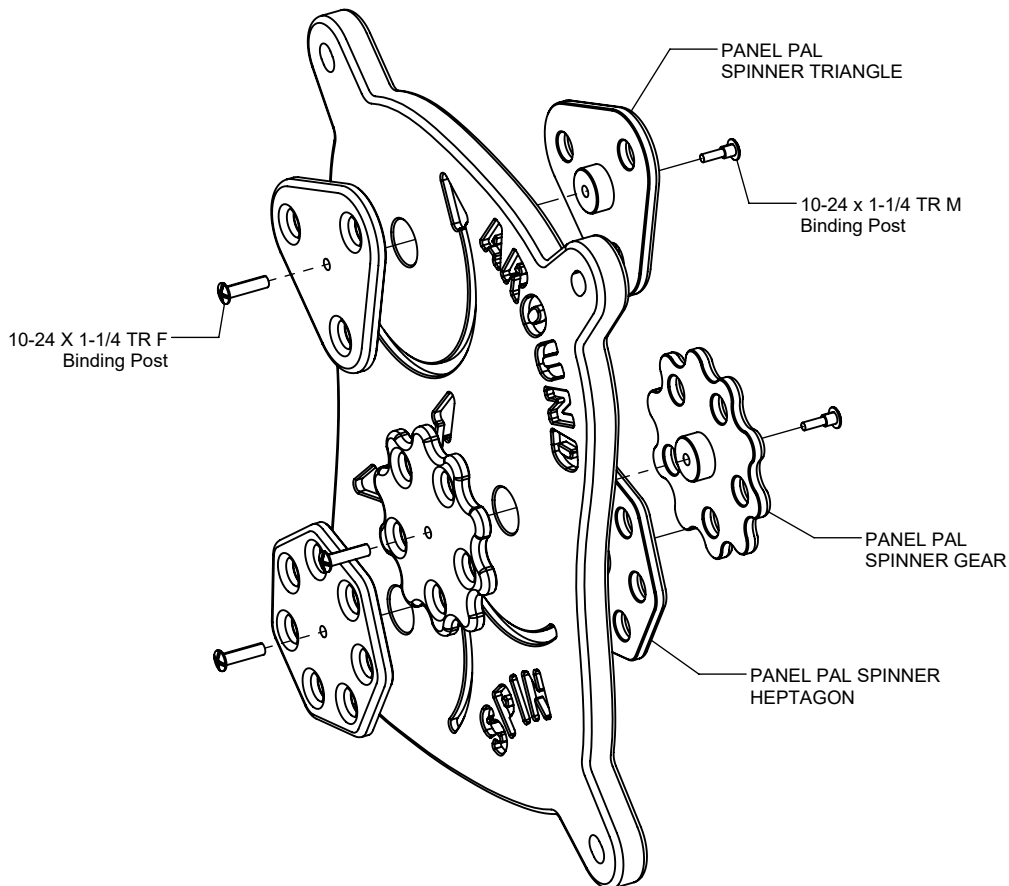


FIGURE 10

Driver Panel

Step 9 (Factory Assembled)

Attach Driver Wheel to Panel Pal Driver as shown in Figure 11. (See Note A)

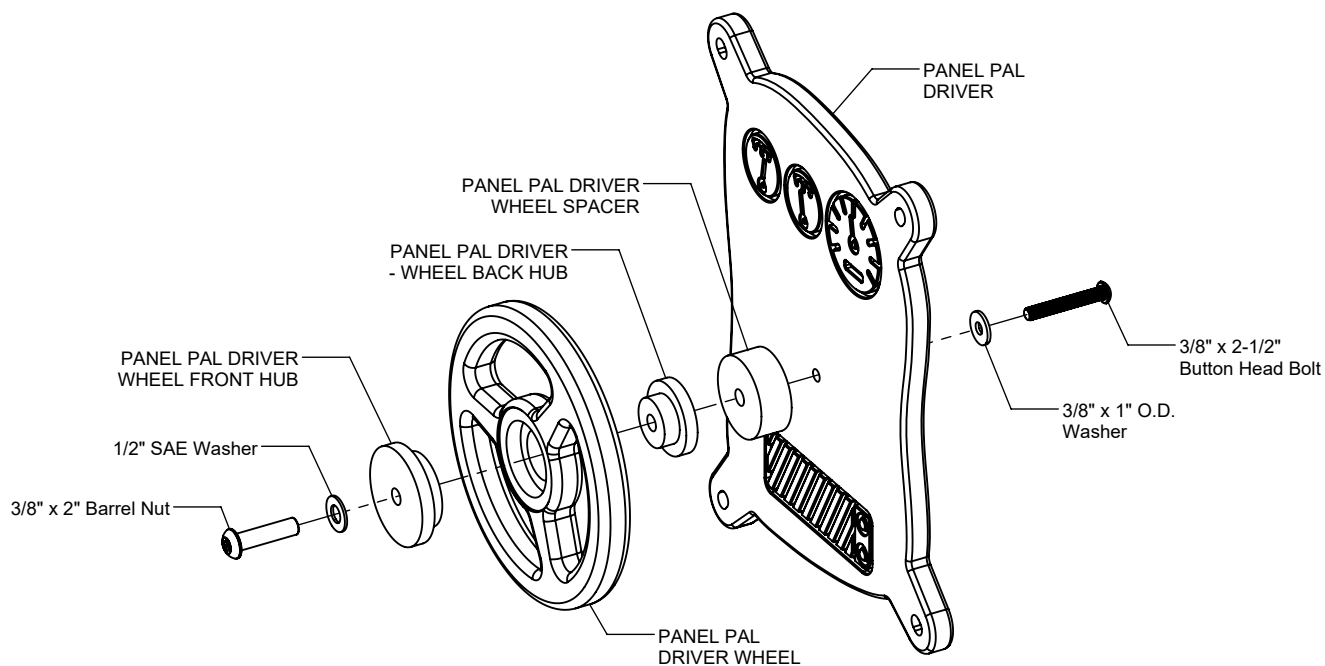


FIGURE 11

Match Panel

Step 10 (Factory Assembled)

Attach Match Pieces to Panel Pal Match as shown.
in Figures 12a and 12b.

Note: Refer to Figure 12b for proper location of
Match Pieces.

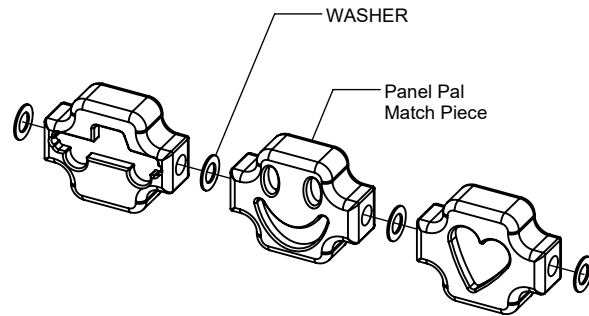


FIGURE 12a

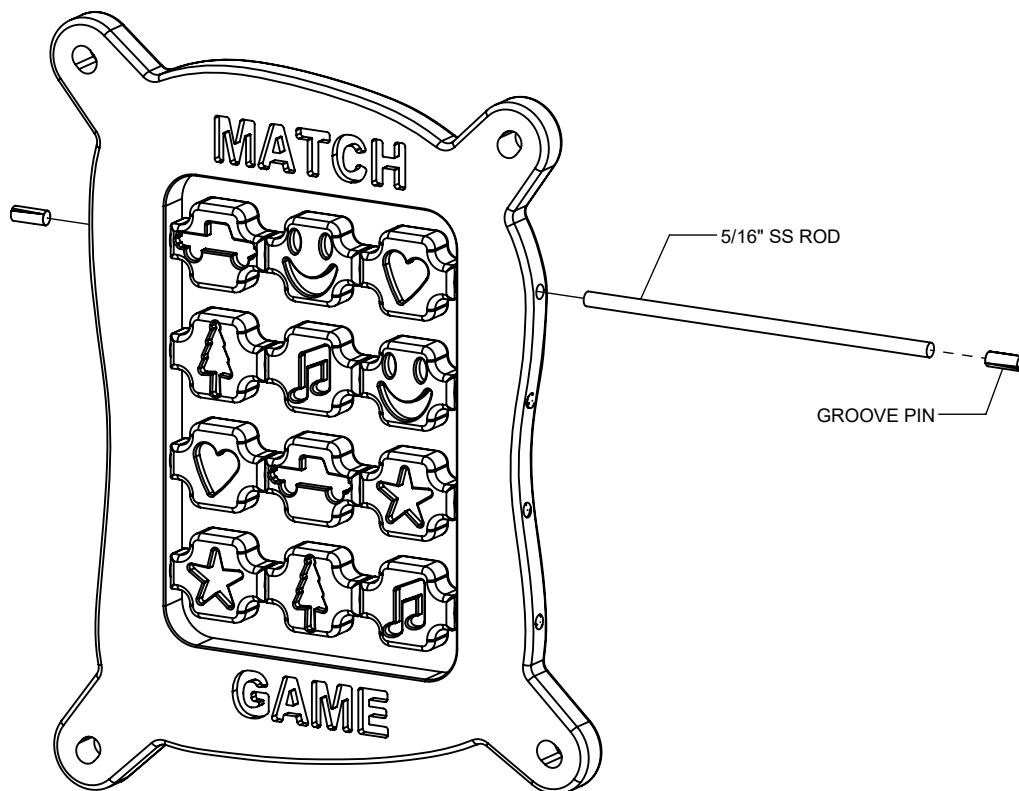


FIGURE 12b

Mirror Panel

Step 11 (Factory Assembled)

Attach Panel Pal Steel Mirror and Panel Pal Mirror Cover Pieces to Panel Pal Roto Mirror as shown in Figure 13. (See Note A)

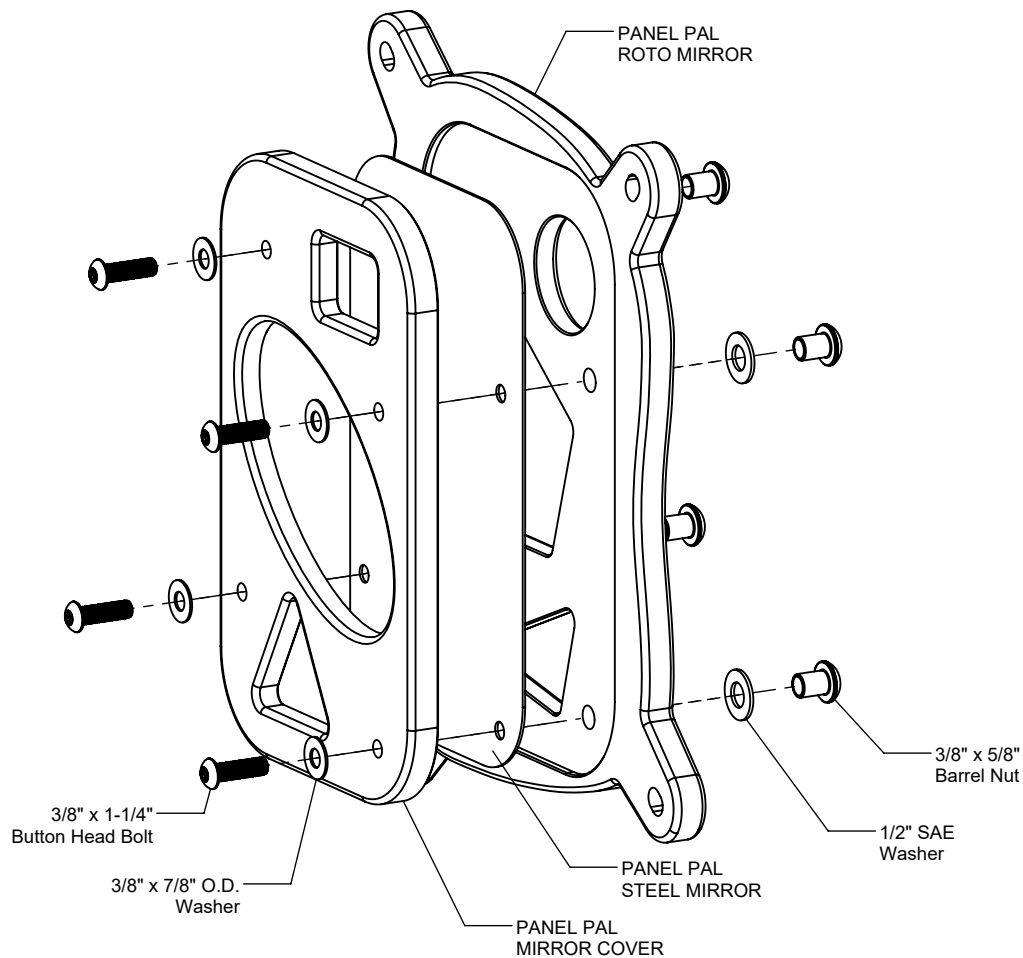


FIGURE 13

Step 12 (Factory Assembled)

Attach Panel Pal Panel to Roto Panel Pal Frame as shown in Figure 1.1. (See Note A)

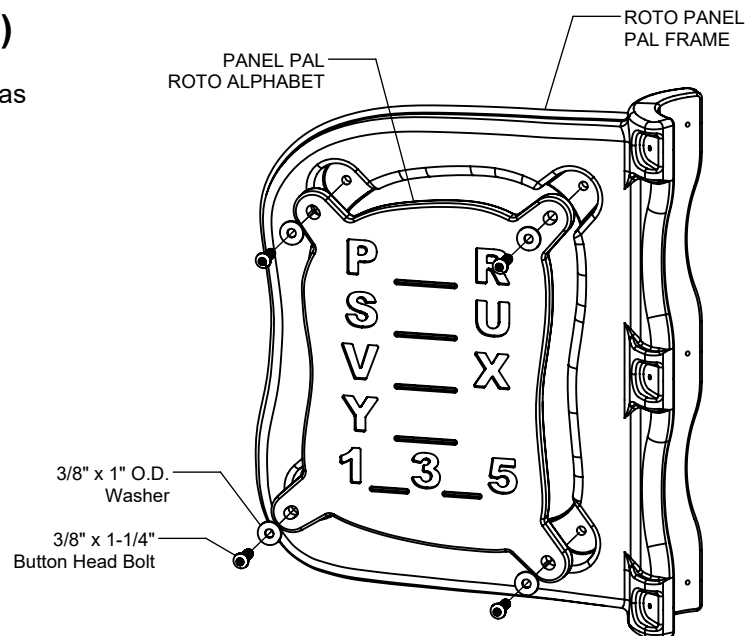


Figure 1.1

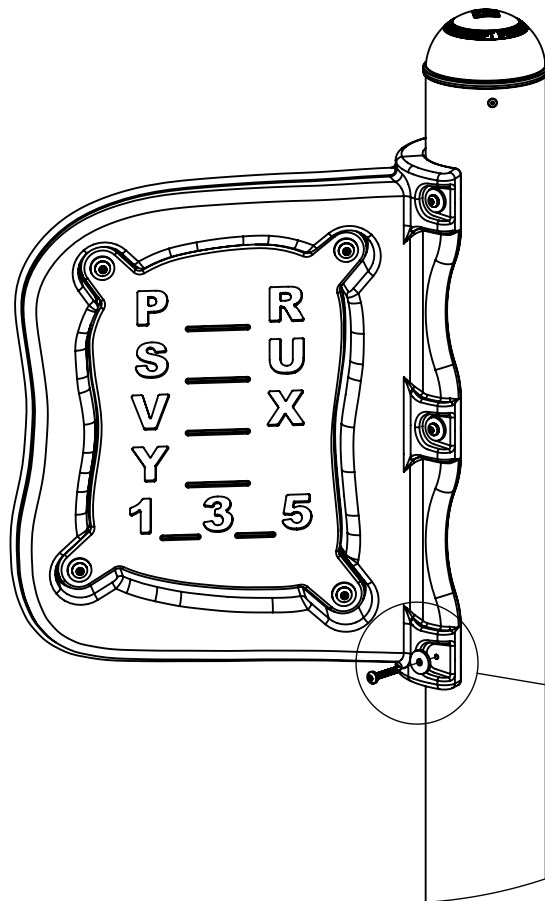


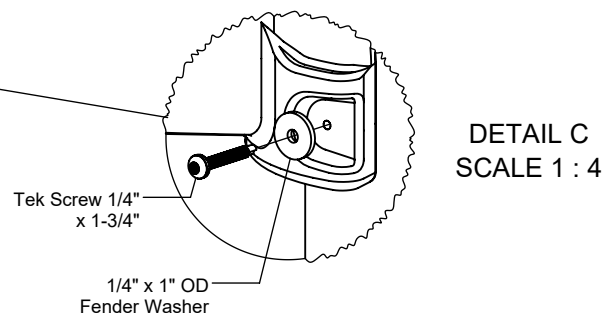
Figure 1.2

Step 13

Attach the Roto Panel Pal Frame to the Post as shown in Figure 1.2. (See Note A)

Step 14

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



PANEL PAL ROTO R5

INSTALLATION INSTRUCTIONS

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Parts List

PART #	DESCRIPTION	QTY
9271082-TR	1/4" x 1-3/4" Tek Screw	6
9321052-THK	Washer Fender 1/4" x 1" OD x .125" thk	6

Assembled Parts Lists

R5-1660 PANEL PAL ROTO ALPHABET

PART #	DESCRIPTION	QTY
DF-7278	Roto Panel Pal Frame	1
EF-0015	Panel Pal Roto Alphabet	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4

R5-1661 PANEL ROTO BELL AND HAMMER

PART #	DESCRIPTION	QTY
DF-7278	Roto Panel Pal Frame	1
EF-0046	PANEL PAL BELL R5	1
EI-0061	Toddler Bell Hammer	2
GE-0005	Small Bell	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9143062-TR	Bolt Shoulder 3/8" x 1-3/8" BH	1
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9333042	Washer Flat 3/8" x 7/8" O.D.	2
9345002	Washer Flat SAE 1/2"	4
9443022-TR	Nut Barrel 3/8" x 5/8" BH	2
9443062-TR	Nut Barrel 3/8" x 1-3/8" BH	1

R5-1663 PANEL PAL ROTO MAZE

PART #	DESCRIPTION	QTY
DF-7278	Roto Panel Pal Frame	1
EF-0007	Panel Pal Roto Maze	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4

R5-1664 PANEL PAL ROTO TIC-TAC-TOE

PART #	DESCRIPTION	QTY
DF-7278	Roto Panel Pal Frame	1
EE-4545-K	Panel Pal - Knob	4
EE-4545-KS	Panel Pal - Knob Spacer	2
EE-4545-PXO	Panel Pal Tic Tac - Part X O	9
EF-7307	Panel Pal Tic Tac Toe	1
581500	5/16" Dia SS Rod	3
581600	Washer 5/16" x 9/16"	12
581700	Groove Pin Type A	6
581800	Binding Post 10-24 X 1-1/4 TR	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4

R5-1665 PANEL PAL ROTO DIALER

PART #	DESCRIPTION	QTY
DF-7278	Roto Panel Pal Frame	1
EE-4545-K	Panel Pal - Knob	4
EE-4545-KS	Panel Pal - Knob Spacer	2
EE-7309-S	Panel Pal Dialer - Spinner	2
EE-7309-SS	Panel Pal Dialer - Spinner Spacer	1
EF-7309	Panel Pal Dialer	1
453213	Roll Pin Slot SPG 1/4 X 1-1/4 SS	1
581800	Binding Post 10-24 X 1-1/4 TR	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9143062-TR	Bolt Shoulder 3/8" x 1-3/8" BH	1
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9443022-TR	Nut Barrel 3/8" x 5/8" BH	1

R5-1666 PANEL PAL ROTO SPINNER

PART #	DESCRIPTION	QTY
DF-7278	Roto Panel Pal Frame	1
EE-4544-G	Panel Pal Spinner - Gear	2
EE-4544-H	Panel Pal Spinner - Heptagon	2
EE-4544-T	Panel Pal Spinner - Triangle	2
EF-7310	Panel Pal Roto Spinner	1
581800	Binding Post 10-24 X 1-1/4 TR	3
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4

R5-1667 PANEL PAL ROTO DRIVER

PART #	DESCRIPTION	QTY
DF-7278	Roto Panel Pal Frame	1
EE-4627-BH	Panel Pal Driver - Wheel Back Hub	1
EE-4627-FH	Panel Pal Driver - Wheel Front Hub	1
EE-4627-W	Panel Pal Driver - Wheel	1
EE-4627-WS	Panel Pal Driver - Wheel Spacer	1
EF-7315	Panel Pal Roto Driver	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	1
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	5
9345002	Washer Flat SAE 1/2"	1
9443092-TR	Nut Barrel 3/8" x 2" BH	1



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Rev B
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Assembled Parts List

R5-1668 PANEL PAL ROTO MATCH		
PART #	DESCRIPTION	QTY
DF-7278	Roto Panel Pal Frame	1
EE-4542-PC	Panel Pal Match - Piece Car	2
EE-4542-PF	Panel Pal Match - Piece Face	2
EE-4542-PH	Panel Pal Match - Piece Heart	2
EE-4542-PN	Panel Pal Match - Piece Note	2
EE-4542-PS	Panel Pal Match - Piece Star	2
EE-4542-PT	Panel Pal Match - Piece Tree	2
EF-7308	Panel Pal Roto Match Game	1
581500	5/16" Dia SS Rod	4
581600	Washer 5/16" x 9/16"	16
581700	Groove Pin Type A	8
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4

R5-1669 PANEL PAL ROTO MIRROR		
PART #	DESCRIPTION	QTY
AE-4741	Panel Pal Mirror Steel	1
DF-7278	Roto Panel Pal Frame	1
EE-4543-C	Panel Pal Mirror - Cover	1
EF-7316	Panel Pal Roto Mirror	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9333042	Washer Flat 3/8" x 7/8" O.D.	4
9345002	Washer Flat SAE 1/2"	4
9443022-TR	Nut Barrel 3/8" x 5/8" BH	4

Specifications

SMALL BELL:

Shall be die-cast using 356.1 aluminum alloy and will have a multi-stage baked-on powder coat finish.

HDPE PARTS (ALL):

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

PANEL PAL ROTO FRAME:

Shall be constructed of UV-stabilized, rotationally molded, linear, low density polyethylene with an average wall thickness of .250".

PANEL PAL MIRROR STEEL:

Shall be fabricated using 16 ga. 304 #8 HPSS.

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.