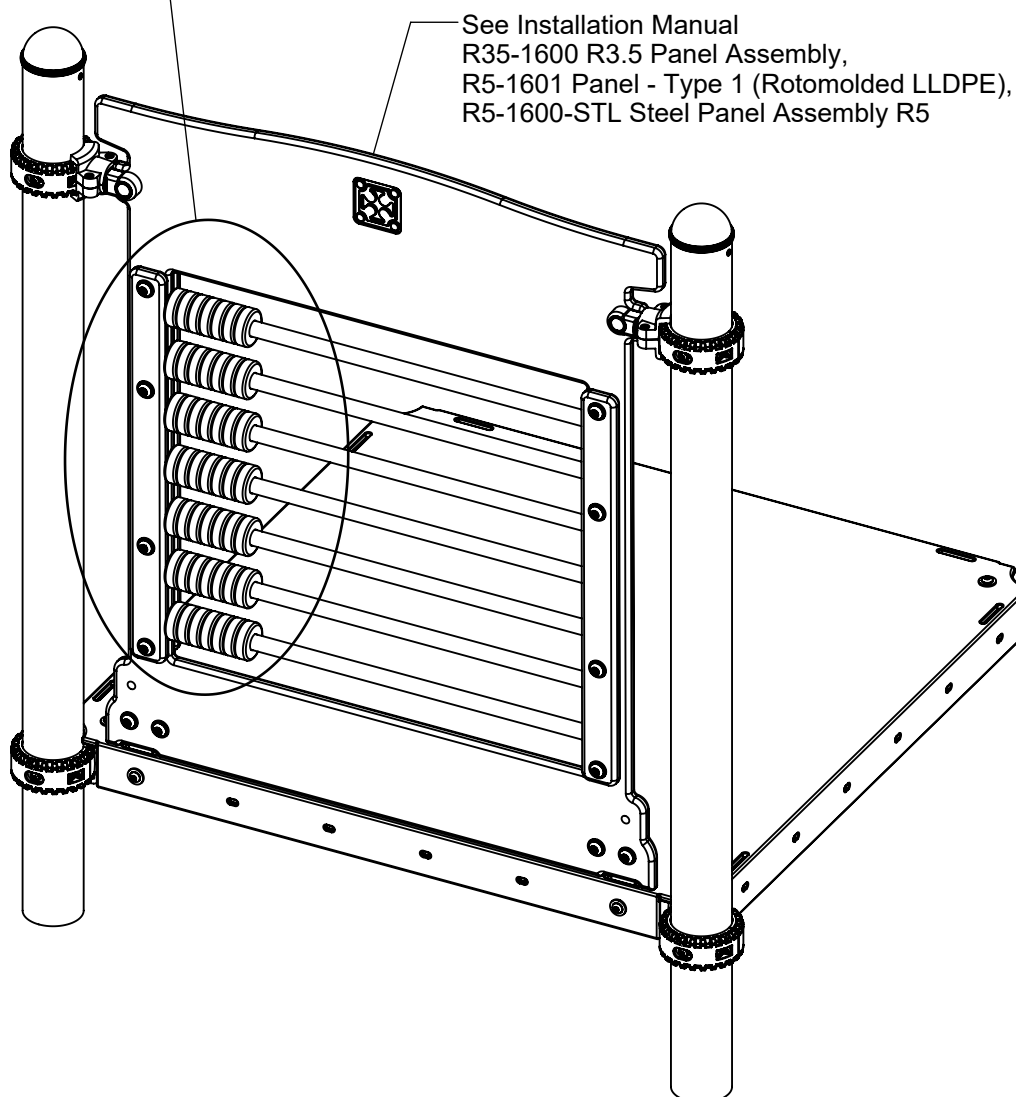# IMPORTANT NOTES: Read First

(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) Refer to Installation Manual for R35-1600 R3.5 Panel Assembly, R5-1601 Panel - Type 1 (Rotomolded LLDPE) and R5-1600-STL Steel Panel Assembly R5 installation instructions.

FIGURE 1
Abacus Panel

Figure 1.1

See Installation Manual
R35-1600 R3.5 Panel Assembly,
R5-1601 Panel - Type 1 (Rotomolded LLDPE),
R5-1600-STL Steel Panel Assembly R5

NOTE: Abacus Panel R35 shown. Other configurations will vary slightly, but does not affect assembly.

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R35 ABACUS PANEL

Step 1 (Factory Assembled)

Place (7) Abacus Panel Beads onto each Activity Panel Tube 28.5" and attach to Abacus Panel as shown in Figure 1.1. (See Note A)

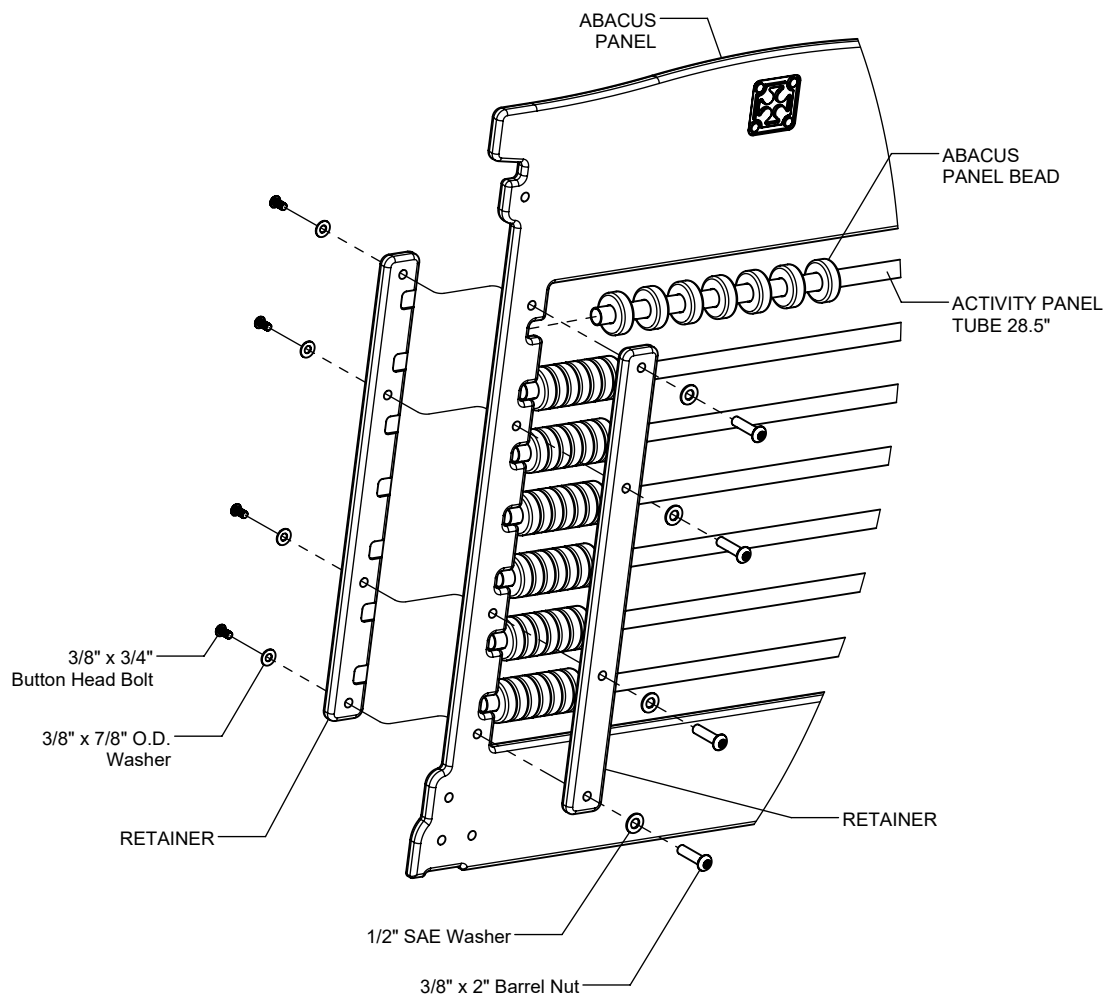**NOTE:** See assembly instruction R35-1600 R3.5 Panel Assembly for complete deck mount or ground mount assembly.

ABACUS PANEL

ABACUS PANEL BEAD

ACTIVITY PANEL TUBE 28.5"

3/8" x 3/4" Button Head Bolt

3/8" x 7/8" O.D. Washer

RETAINER

RETAINER

1/2" SAE Washer

3/8" x 2" Barrel Nut

Figure 1.1

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R5 ABACUS PANEL

Step 2 (Factory Assembled)

Attach Bracket to Roto Panel as shown in Figure 2 (See Note A). Match drill holes through Bracket into Roto Panel as shown in Figure 3 to allow for Activity Panel Tube 29" to pass through.
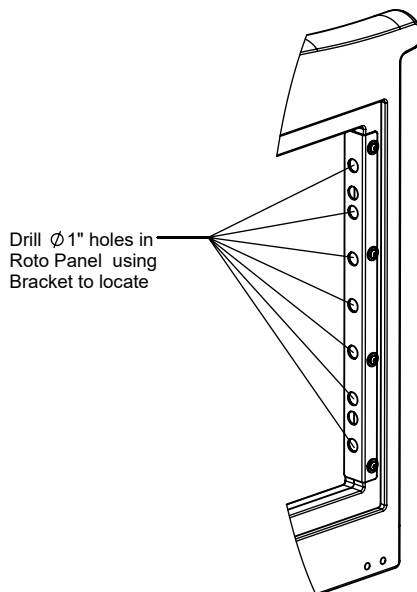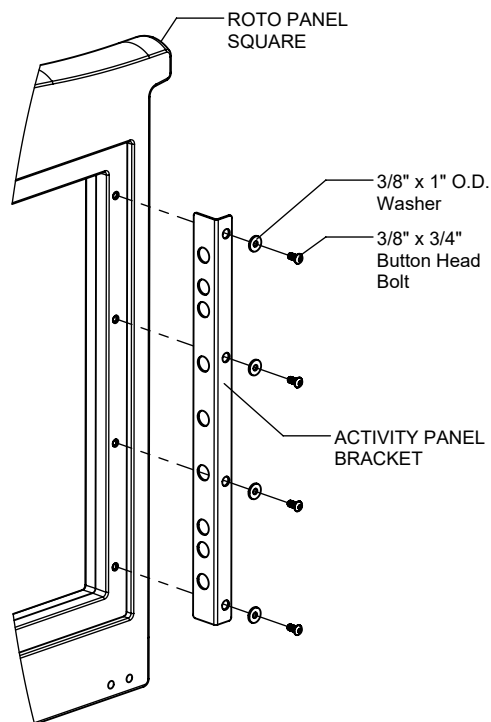
ROTO PANEL SQUARE

3/8" x 1" O.D. Washer

3/8" x 3/4" Button Head Bolt

ACTIVITY PANEL BRACKET

FIGURE 2

Drill Ø 1" holes in Roto Panel using Bracket to locate

FIGURE 3

Step 3 (Factory Assembled)

Place (7) Abacus Panel Beads onto each Activity Panel Tube of Abacus Tube Weldment and attach to Abacus Panel as shown in Figure 4. (See Note A)

NOTE: See assembly instruction R5-1601 Panel - Type 1 (ROTOMOLDED LLDPE) for complete deck mount or ground mount assembly.
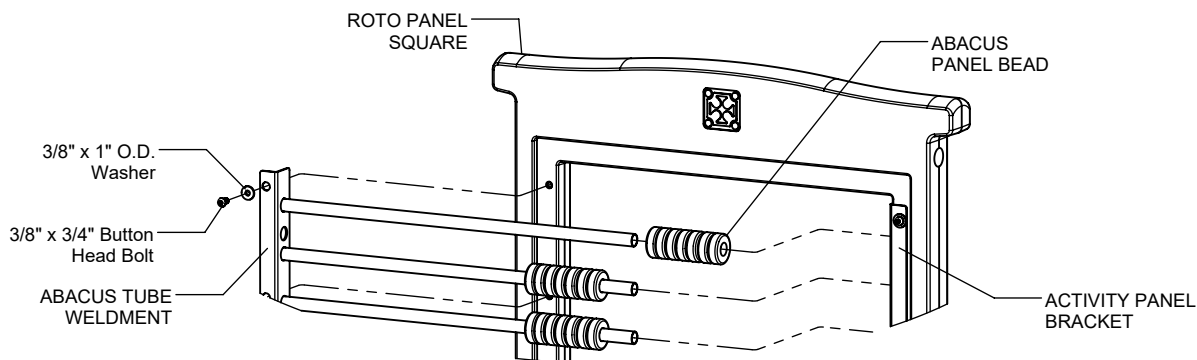
ROTO PANEL SQUARE

ABACUS PANEL BEAD

3/8" x 1" O.D. Washer

3/8" x 3/4" Button Head Bolt

ABACUS TUBE WELDMENT

ACTIVITY PANEL BRACKET

FIGURE 4

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R5 STEEL ABACUS PANEL

Step 4 (Factory Assembled)

Place (7) Abacus Panel Beads onto each Activity Panel Tube 29.5" and attach to Abacus Panel as shown in Figure 5. (See Note A)

NOTE: See assembly instruction R5-1600-STL Steel Panel Assembly R5 for complete deck mount or ground mount assembly.
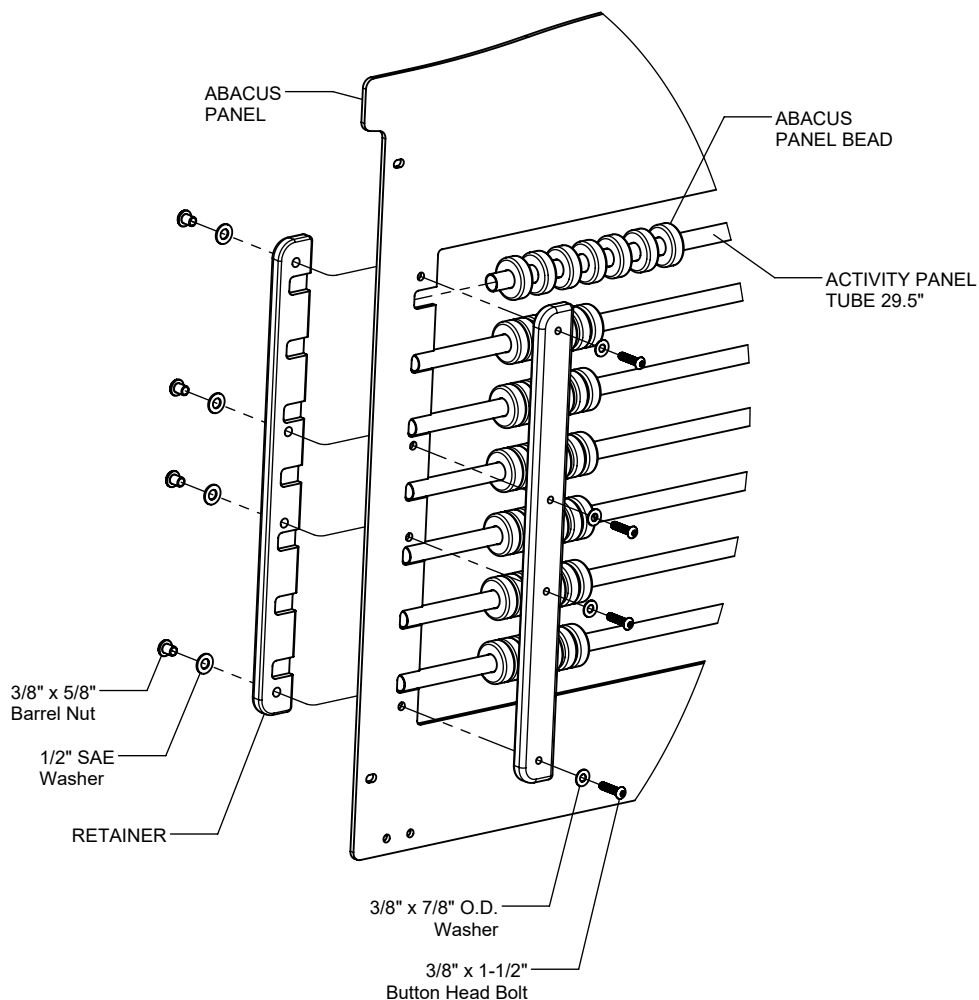
ABACUS PANEL

ABACUS PANEL BEAD

ACTIVITY PANEL TUBE 29.5"

3/8" x 5/8" Barrel Nut

1/2" SAE Washer

RETAINER

3/8" x 7/8" O.D. Washer

3/8" x 1-1/2" Button Head Bolt

FIGURE 5

Step 5

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

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Assembled Parts List

ABACUS PANEL R35

PART #	DESCRIPTION	QTY
EG-8127-R	Abacus Panel R3.5 Retainer	4
EG-8172	Abacus Panel R3.5	1
EG-8173	Abacus Panel Bead R3.5	49
LE-0075-2850	Activity Panel Tube 28.5"	7
9103032-TR	Bolt Button Head 3/8" x 3/4"	8
9333042	Washer Flat 3/8" x 7/8" O.D.	8
9345002	Washer Flat SAE 1/2"	8
9443092-TR	Nut Barrel 3/8" x 2" BH	8

ABACUS PANEL R5

PART #	DESCRIPTION	QTY
BE-4053	Activity Panel Bracket	1
DF-7108-S	Roto Panel Square	1
EG-8173	Abacus Panel Bead R3.5	49
FS-1627	Abacus Panel Weldment Tube R5	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	8

STEEL ABACUS PANEL R5

PART #	DESCRIPTION	QTY
AF-0670	Steel Abacus Panel R5	1
EF-0356-BRET	Steel Abacus Panel Back Retainer R5	2
EF-0356-FRET	Steel Abacus Panel Front Retainer R5	2
EG-8173	Abacus Panel Bead R3.5	49
LE-0075-2950	Activity Panel Tube 29.5"	7
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333042	Washer Flat 3/8" x 7/8" O.D.	8
9345002	Washer Flat SAE 1/2"	8
9443022-TR	Nut Barrel 3/8" x 5/8" BH	8

Specifications

ABACUS PANEL R35, ABACUS PANEL RETAINER & ABACUS PANEL BEAD:
Shall be made from high density 3/4" sheet plastic specially formulated for optimum UV stability and color retention.

ABACUS ROTO PANEL R5:
Shall be constructed of UV-stabilized, rotationally molded, linear, low density polyethylene with an average wall thickness of .250"

STEEL R5 ABACUS PANEL:
Shall be precision cut from 1/4" sheet steel and will have a multi-stage baked-on powder coat finish.

PANEL BRACKET:
Shall be fabricated using 3/16" sheet steel and will have a multi-stage baked-on powder coat finish.

ACTIVITY PANEL TUBE:
Shall be fabricated using 0.75" galvanized EMT 18 ga. steel tubing and will 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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