





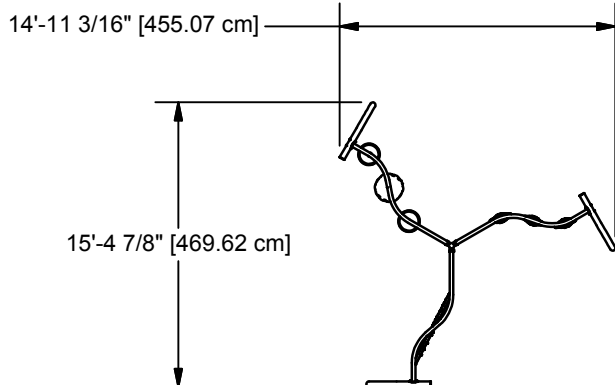
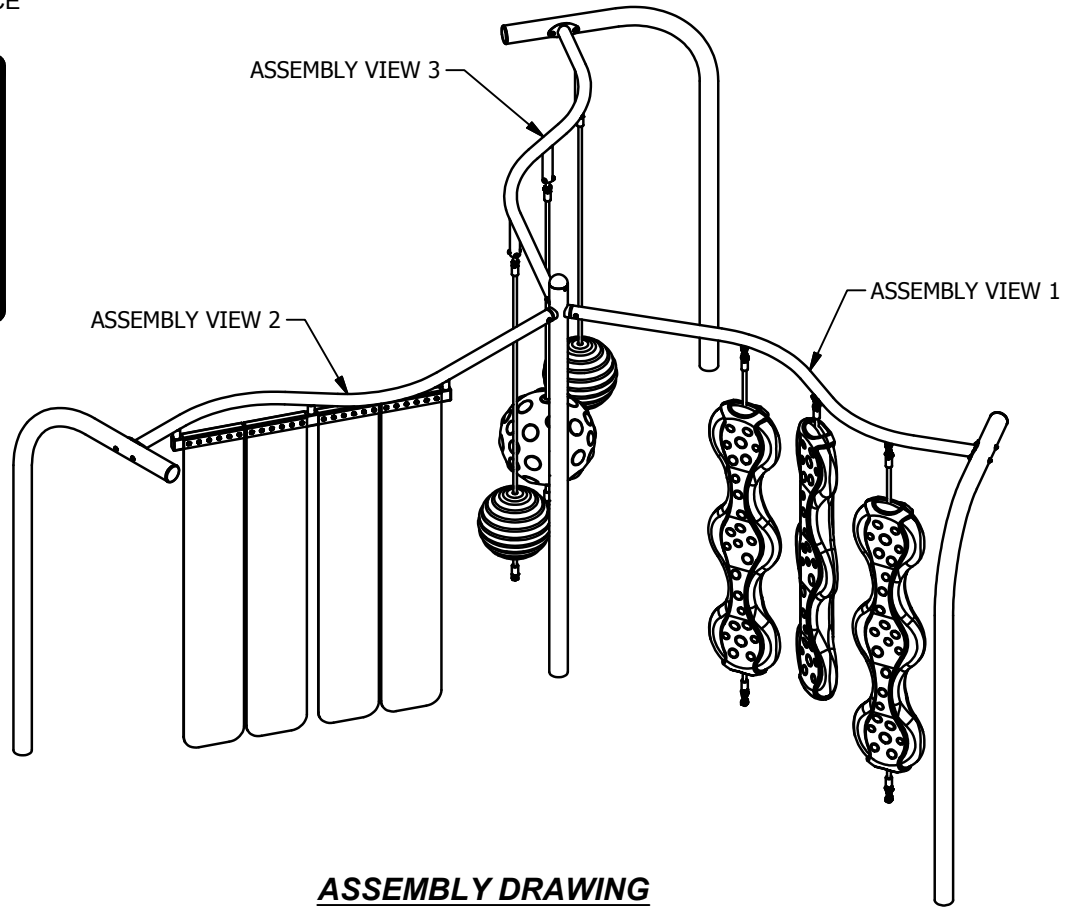
A PLAYCORE Company
1-800-235-2440

3260

SENSORY WHIRLPOOL

ISSUED/REVISED: 2/14/2017

-  = INSTALLATION DETAIL
-  = PARTS LIST REFERENCE



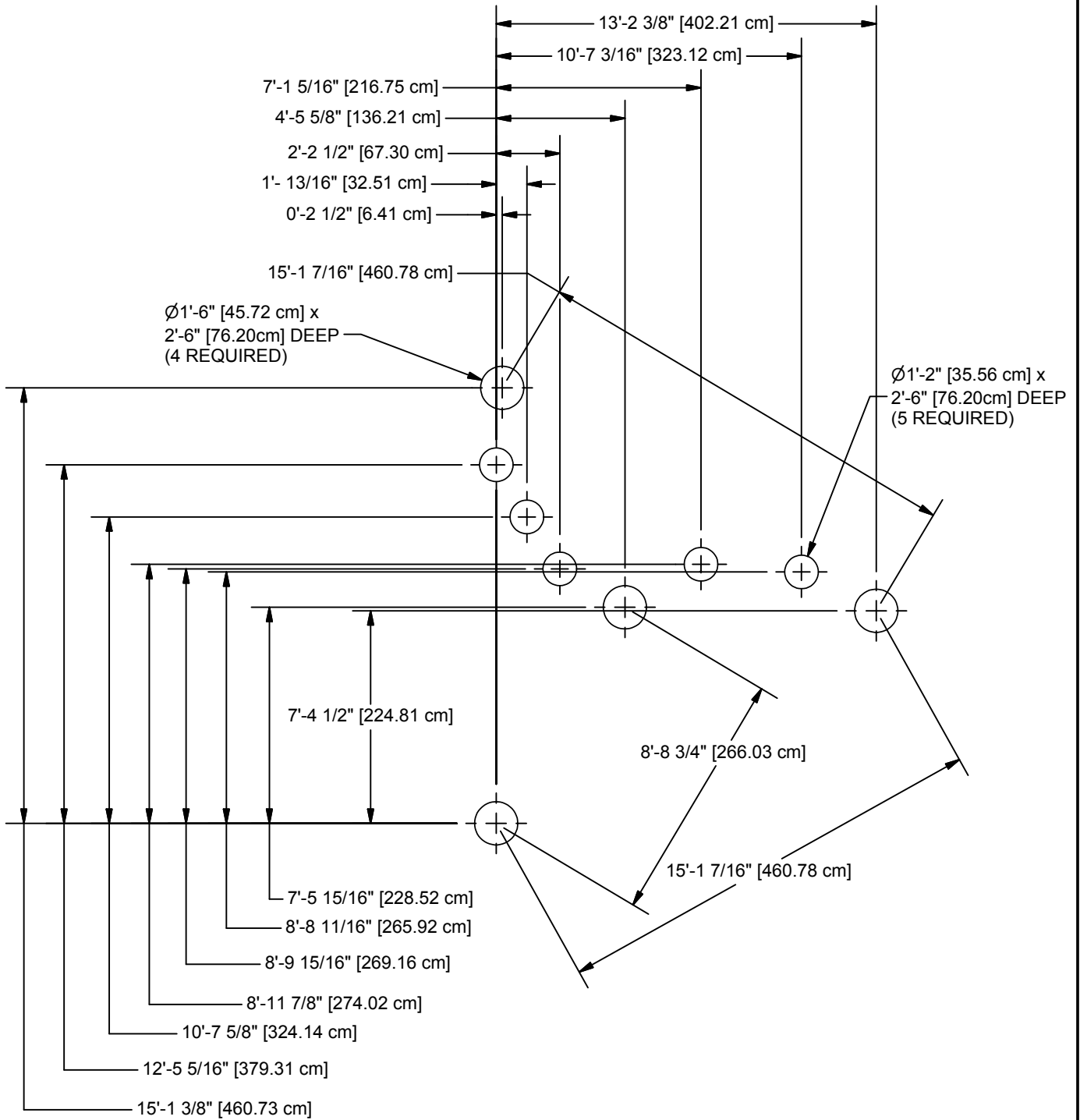
TOP VIEW

Parts List			
REF.	DESCRIPTION	QTY	PART NUMBER
1	CENTER UPRIGHT 3 SOCKET	1	314090
2	SENSORY WATER DROP TOP RAIL ASS'Y	1	313927
3	MACHINED CAP	3	313933
4	18" SENSORY WATER DROP	1	313731
5	14" SENSORY WATER DROP	2	313732
6	CANTILEVERED UPRIGHT	3	313757
7	SENSORY WASH TOP RAIL ASS'Y	1	313820
8	GREEN CURTAIN	2	313911
9	RED CURTAIN	2	313910
10	MOUNTING PLATE	8	313825
11	SENSORY WATERFALL HORIZONTAL/SOCKET TOP RAIL	1	314078
12	SENSORY WATERFALL ASS'Y (TETHERED)	2	313902
13	SENSORY WATERFALL	1	313737
14	3 1/2" MOLDED CAP	3	212340
	HARDWARE COMPLETE	1	212767
	1/4" BARREL NUT	11	804809*
	5/16" x 1/2" S.S. SHOULDER BOLT	11	802740*
	5/16" x 2" P.B.H.C.S. w/PATCH	24	812046*
	5/16" STAINLESS STEEL BARREL NUT	24	804813*
	5/16" LOCK WASHER	24	817330*
	3/8" x 1/2" P.B.H.C.S. w/PATCH	9	812049*
	3/8" x 2" P.B.H.C.S. w/PATCH	3	812055*
	3/8" x 3 1/2" P.B.H.C.S. w/PATCH	6	812075*
	3/8" SWIVEL PLUG	5	313898*
	3/8" FLAT WASHER (1 1/4" O.D.)	8	817424*
	3/8" LOCKWASHER	18	817334*
	3/8" BARREL NUT	9	804804*
	3/8" FLAT WASHER	15	817410*
	CHAIN	5	313901*
	STAINLESS STEEL SWIVEL	5	818375*
	WATER DROP MACHINED SHAFT	3	313934*
	OIL-EMBEDDED FLANGED SLEEVE BEARING	3	818376*
	MEDIUM LOAD SPRING	3	818377*
	STEEL COMPRESSION SPRING	3	818378*

Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

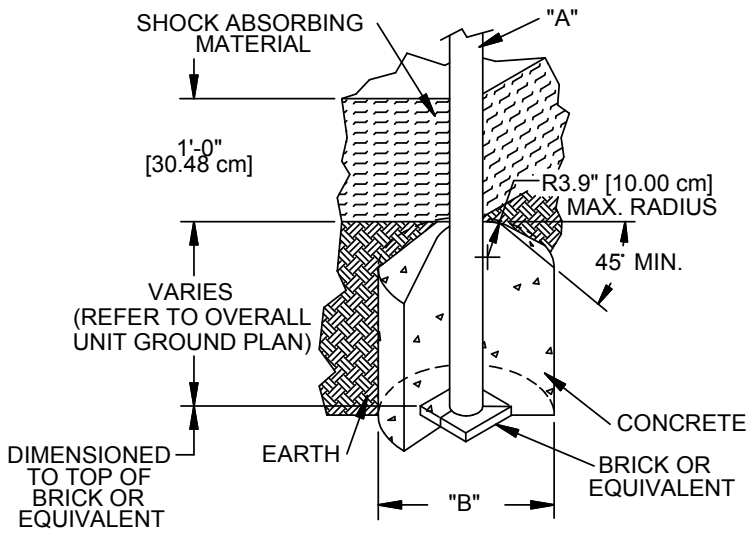
**Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.**



CONCRETE REQUIRED:
 .70 CUBIC YARD
 .53 CUBIC METERS

GROUND PLAN

NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 003. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.



003

DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/4" [3.18 cm]	1'-2" [35.56 cm]
1 1/2" [3.81 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-6" [45.72 cm]
1 7/8" [4.83 cm]	1'-6" [45.72cm]
3 1/2" [8.89 cm]	1'-6" [45.72cm]
5" [12.70 cm]	1'-6" [45.72cm]

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly. **NOTE:** Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.

1. Locate and dig footing holes according to the Ground Plan. See Detail 003
2. Drive 3-1/2" Molded Cap into short end of Cantilevered Uprights. See Detail 608.
3. Place Center Upright 3 Socket Ass'y into center footing hole. Place Cantilevered Uprights w/ Cap into three outer footing holes.
4. Attach Top Rail Assemblies to Center Upright 3 Socket Ass'y and Cantilevered Uprights using Detail 565 and Detail 585.

NOTE: Refer to Assembly View for placement of Top Rail Assemblies.

5. Attach Stainless Steel Swivel to Sensory Waterfall. See Detail 558.
6. Attach Chain to Sensory Waterfall Ass'y (Tethered). See Detail 557.
7. Attach Sensory Waterfall Ass'y (Tethered) and Sensory Waterfall to Sensory Waterfall Horizontal/Socket Top Rail. See Detail 559. (See Assembly View for placement.)
8. Attach Green and Red Curtains to Sensory Wash Top Rail Ass'y using Mounting Plate. See Detail 556.

NOTE: See Assembly View for color alternation.

9. Attach Chain to bottom end of 18" and 14" Water Drops. See Detail 576.
10. Attach Water Drop Machined Shaft, Steel Compression Spring, Medium Load Spring, Bearing, and Machined Cap to the Sensory Water Drop Top Rail Ass'y. See Detail 577.
11. Attach top end of 18" and 14" Water Drops to Water Drop Machined Shaft. See Detail 578.
12. Plumb and level the entire assembly and tighten all fasteners.
13. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
14. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

SPECIFICATIONS

3-1/2" MOLDED CAP: The 3-1/2" Molded Cap shall be constructed from injection molded Low Density Polyethylene.

CENTER UPRIGHT (3 SOCKETS):

Shall be 2-3/8" O.D. x .095" (13 gauge) wall galvanized steel tubing and 3-1/2" O.D. X .095" (13 gauge) wall galvanized steel tubing, manufactured to ASTM A-500 Section II tolerances from cold-formed steel conforming to ASTM A-569 Sheet Spec for Steel Coil. Minimum yield strength shall be 50,000 psi and minimum tensile strength shall be 55,000 psi. The exterior surface is hot dip galvanized, chromate conversion coated, and a clear high performance organic polymer is applied. The inside diameter has 81% minimum zinc rich primer capable of providing excellent rust protection and fabrication characteristics. All coatings are applied inside and out after welding for superior corrosion protection throughout. Exterior surface galvanizing zinc purity is 99% as per ASTM B-6 high grade and special high grade. Galvanizing coverage shall demonstrate the ability to exceed 1000 hours salt spray corrosion exposure in accordance with ASTM B-117. Internal surface zinc rich 81% minimum zinc dust content in organic resin, as per ASTM F-1234, Section 5.2.4, Type D. All upright posts shall have a finished grade line marking to indicate the correct playground safety surface level. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

CANTILEVERED UPRIGHT: Shall be fabricated from 3-1/2" outside diameter, 7 gauge (0.18") galvanized round tubing manufactured to ASTM A-500 Section 2 tolerances from cold-formed steel conforming to ASTM A-569 Sheet Spec for Steel Coil. Minimum yield strength shall be 50,000 psi and minimum tensile strength shall be 55,000 psi. The exterior surface is hot dip galvanized, chromate conversion coated, and a clear high performance organic polymer is applied. The inside diameter has 81% minimum zinc rich primer capable of providing excellent rust protection and fabrication characteristics. All coatings are applied inside and out after welding for superior corrosion protection throughout. Exterior surface galvanizing zinc purity is 99% as per ASTM B-6 high grade and special high grade. Galvanizing coverage shall demonstrate the ability to exceed 1000 hours salt spray corrosion exposure in accordance with ASTM B-117. Internal surface zinc rich 81% minimum zinc dust content in organic resin, as per ASTM F-1234, Section 5.2.4, Type D. All upright post shall have a finished grade line marking to indicate the correct playground safety surface level. All upright post shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

SENSORY WATERFALL: Shall be manufactured with 5lb Polyurea spray (Playspray 274 Red-B), 5lb Polyurea spray (Playspray 274A), 5lb Polyurethane foam (Playflex B) and 5lb Polyurethane foam (Playflex 100 A) materials. Cable shall be 19mm diameter UV protected polyimide (nylon) rope cable. 6 strands each containing nineteen steel reinforcing (0.6mm) strands within a polyimide sleeve wrapped around a reinforcing steel core containing 6 strands each containing nineteen steel reinforcing (0.4mm) steel strands.

SENSORY WATERFALL HORIZONTAL/SOCKET TOP RAIL: The top rail shall be reinforced with an all welded construction fabricated from 2-3/8" galvanized pipe and 1/2" x 2" hot rolled galvanized steel. The top rail shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

SENSORY WASH TOP RAIL ASS'Y: Shall be an all welded construction fabricated from 2-3/8" O.D. x .095" (13 gauge) wall galvanized steel tubing, 2-1/2" x 1-1/2" (14 ga.) square tubing, and 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing. The Sensory Wash Top Rail Ass'y shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

MOUNTING PLATE: Shall be fabricated from 1/8" thick flat steel. The Mounting Plate shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

RED CURTAIN: Shall be 12" wide x .22" thick textured PVC curtain material. The 90 Shore A polyurethane top cover, combined with the friction impregnated bottom surface. Top cover finish is gloss.

GREEN CURTAIN: Shall be 12" wide x .11" thick textured PVC curtain material. The Green Curtain consist of a soft 35 Shore A durometer lattice top cover profile.

18" WATER DROP: Shall be manufactured with 4lb Polyurea spray (Playspray Red-B), 4lb Polyurea spray (Playspray 274 A), 4lb Polyurethane foam (Playflex B) and 4lb Polyurethane foam (Playflex 100 A) materials. Cable shall be 19mm diameter UV protected polyimide (nylon) rope cable with a calculated breaking load greater than or equal to 79.82kN: 6 strands each containing 19 steel reinforcing (0.4mm) steel strands; each end of the cable has an almag 35 aluminum machined tab casting. The sound chamber ass'y shall be an all welded construction fabricated from a 11 gauge (.120") hot rolled flat steel cap and a 5" outside diameter, 11 gauge (.120") round tubing. The sound chamber ass'y will contain .75" bells. The sound chamber ass'y will be held into place with almag 35 aluminum splicer casting.

14" WATER DROP: Shall be manufactured with 3lb Polyurea spray (Playspray Blue-B), 3lb Polyurea spray (Playspray 274 A), 4lb Polyurethane foam (Playflex B) and 3 lb Polyurethane foam (Playflex 100 A) materials. Cable shall be 19mm diameter UV protected polyimide (nylon) rope cable with a calculated breaking load greater than or equal to 79.82kN: 6 strands each containing 19 steel reinforcing (0.4mm) steel strands; each end of the cable has an almag 35 aluminum machined tab casting. The sound chamber ass'y shall be an all welded construction fabricated from a 11 gauge (.120") hot rolled flat steel cap and a 5" outside diameter, 11 gauge (.120") round tubing. The sound chamber ass'y will contain .75" bells. The sound chamber ass'y will be held into place with almag 35 aluminum splicer casting.

SENSORY WATER DROP TOP RAIL ASS'Y:

Shall be an all welded construction fabricated from 3/16" x 4" hot rolled steel tab, 1-1/2" standard galvanized x .145" wall ASTM A-120 bendable quality pipe housing, and 2-3/8" O.D. x .095" (13 gauge) wall galvanized steel tubing top rail. The Sensory Water Drop Top Rail Ass'y shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

MACHINED CAP: Shall be manufactured with 1-5/8" O.D. cold roll steel.

CHAIN: Shall be manufactured with #80 4/0 straight link coil galvanized chain.

WATER DROP MACHINED SHAFT: Shall be manufactured with 304 stainless steel 1-1/4" O.D.

OIL-EMBEDDED FLANGED SLEEVE BEARING: Shall be manufactured with SAE 841 oil impregnated sintered bronze

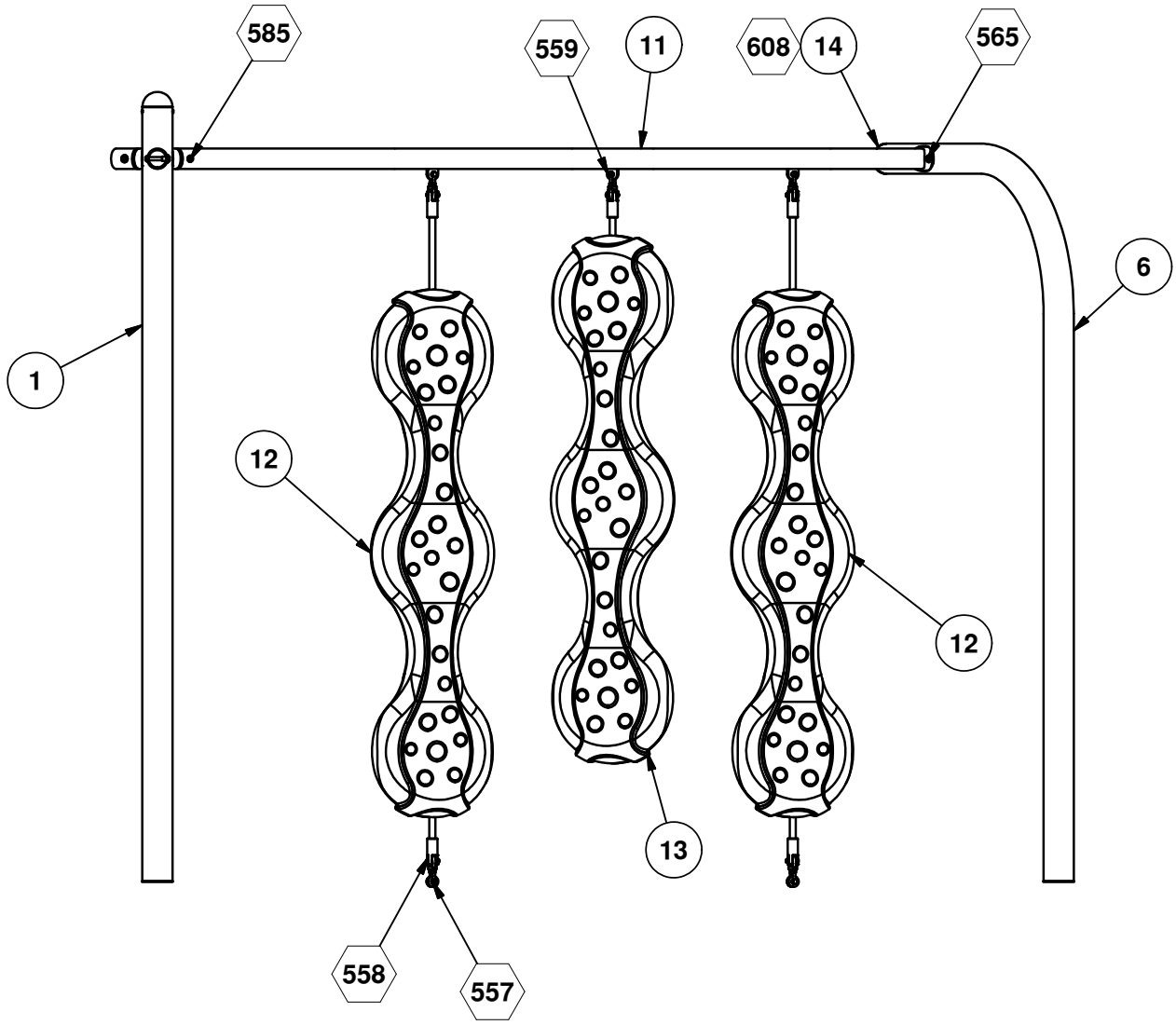
MEDIUM LOAD SPRING: Shall be manufactured with blue, medium load chrome-silicon steel

STEEL COMPRESSION SPRING: Shall be manufactured with Zinc-Plated Steel

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 350 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 350 degrees Fahrenheit for 10 minutes.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.



ASSEMBLY VIEW 1

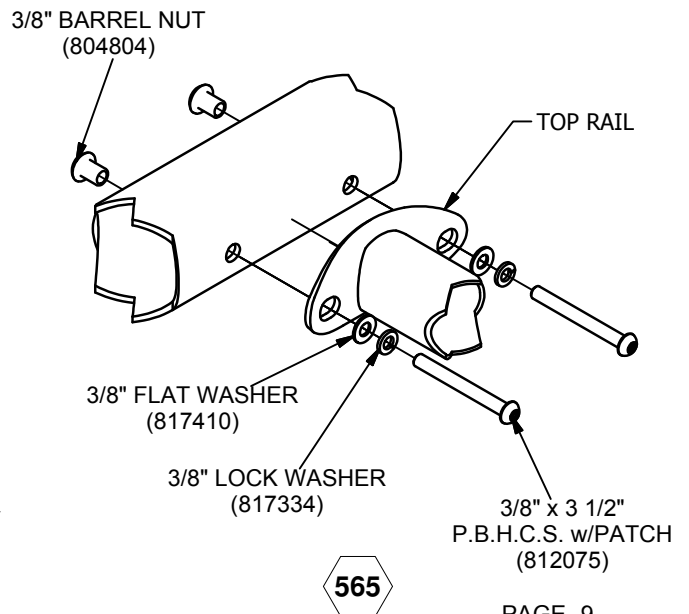
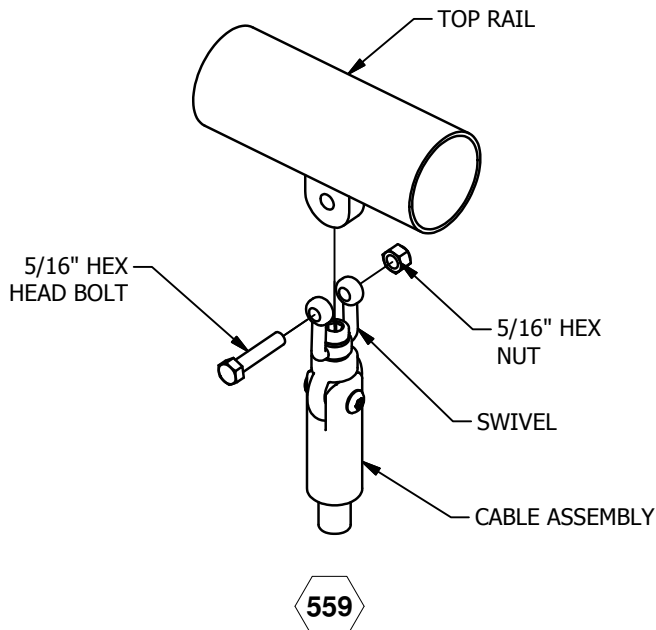
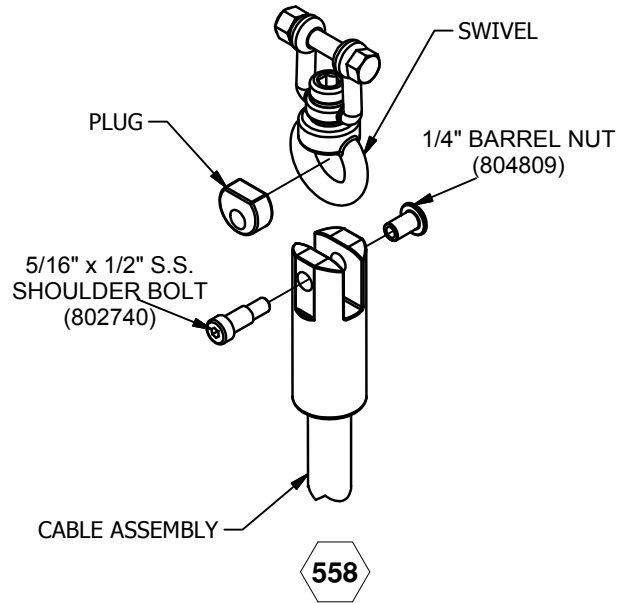
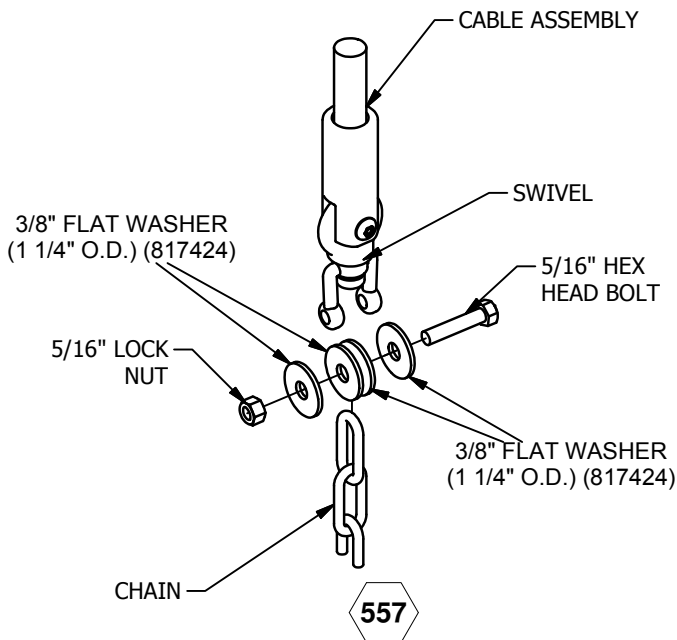
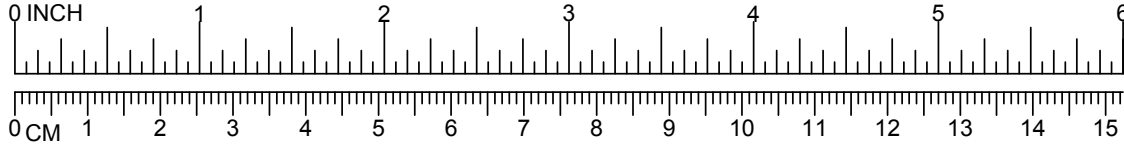
DETAILS -for- ASSEMBLY VIEW 1

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



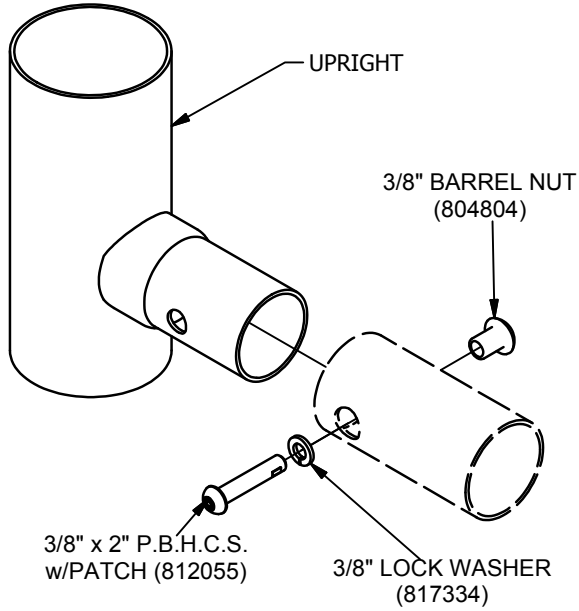
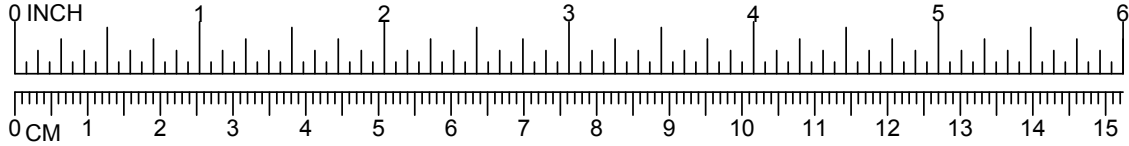
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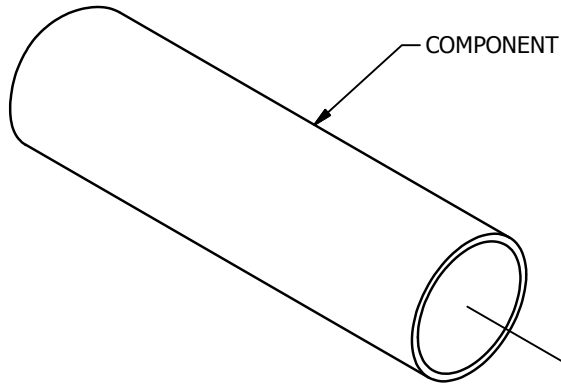
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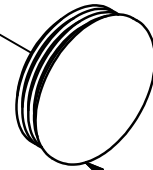
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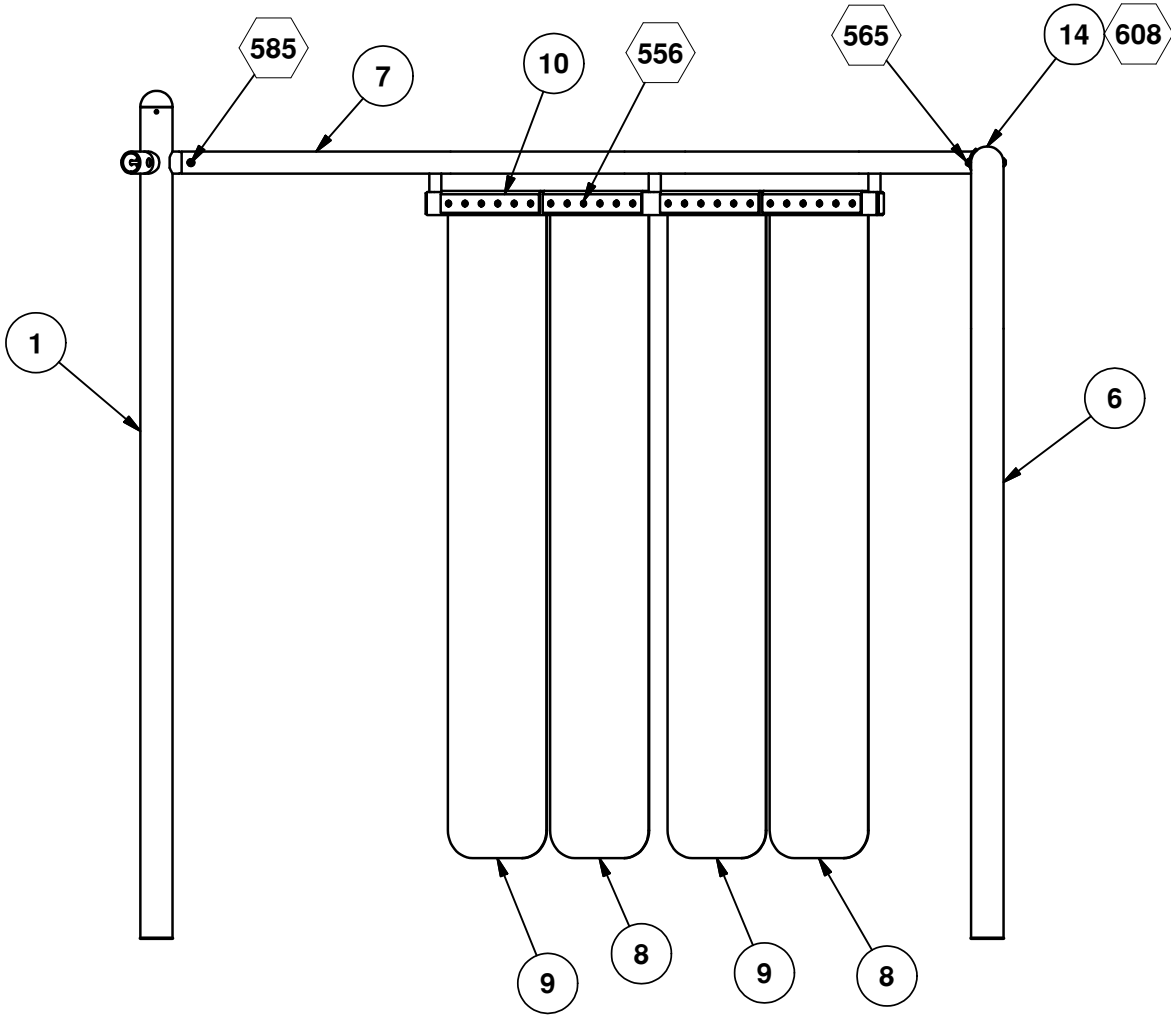
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3 1/2" MOLDED CAP
(212340)



ASSEMBLY VIEW 2

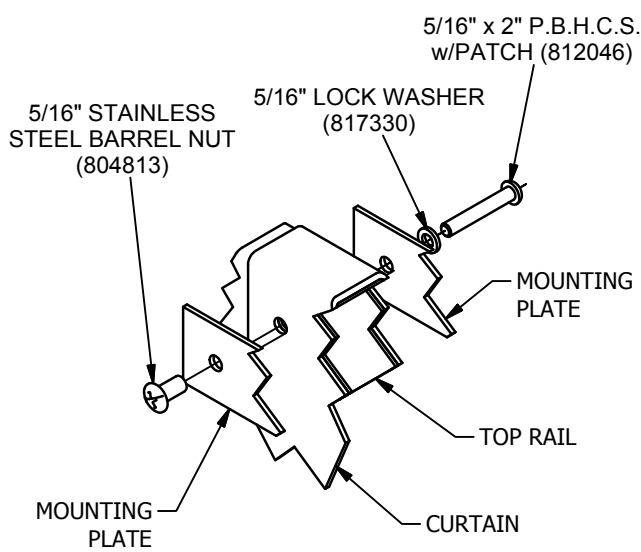
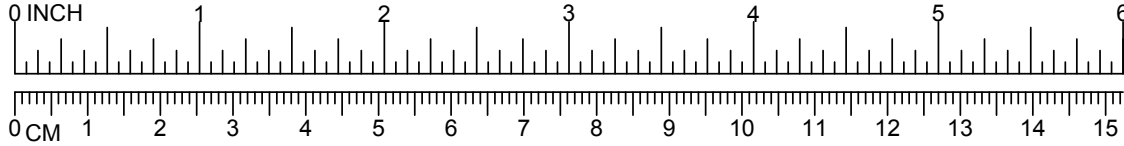
DETAILS -for- ASSEMBLY VIEW 2

IMPORTANT

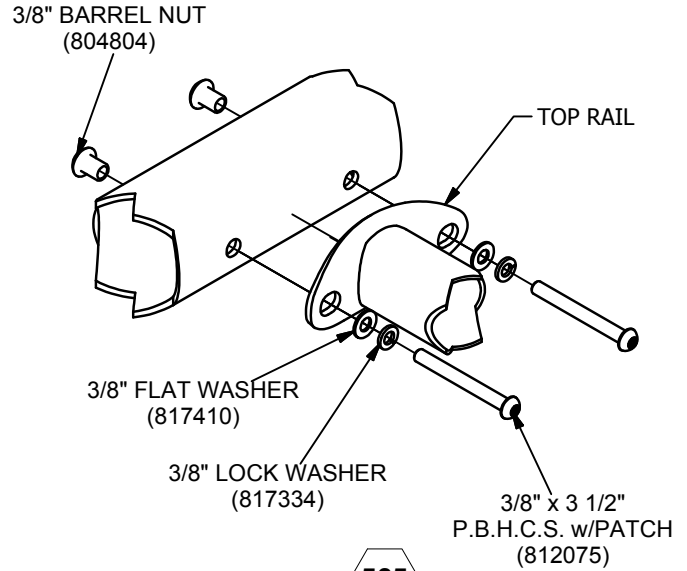
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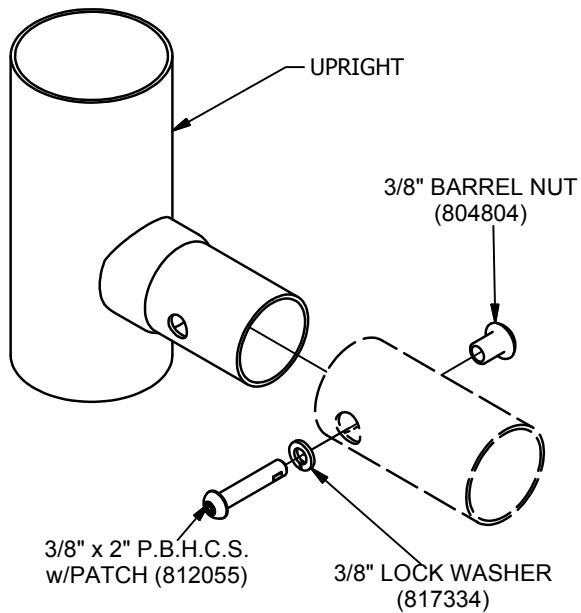
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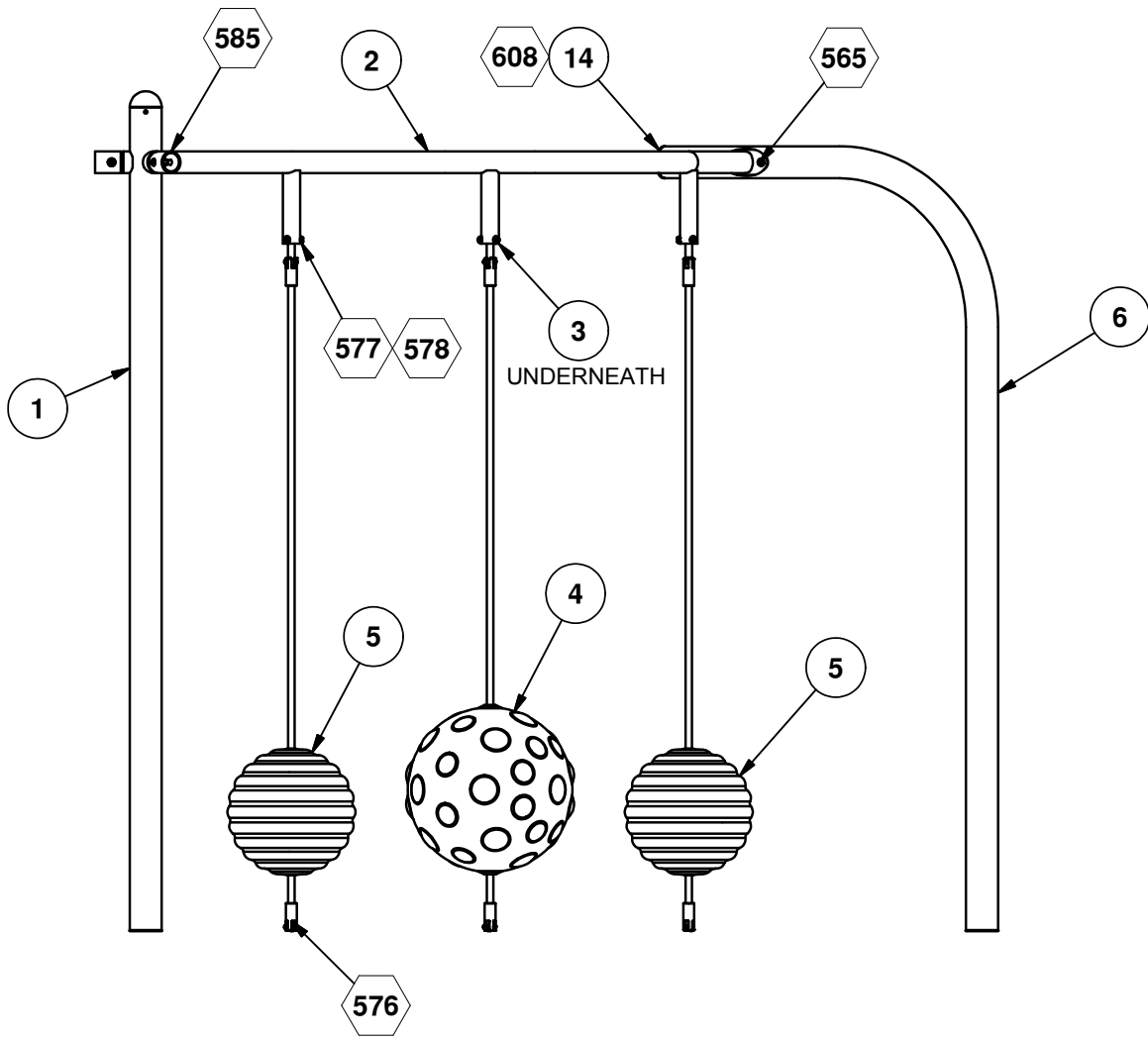
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ASSEMBLY VIEW 3

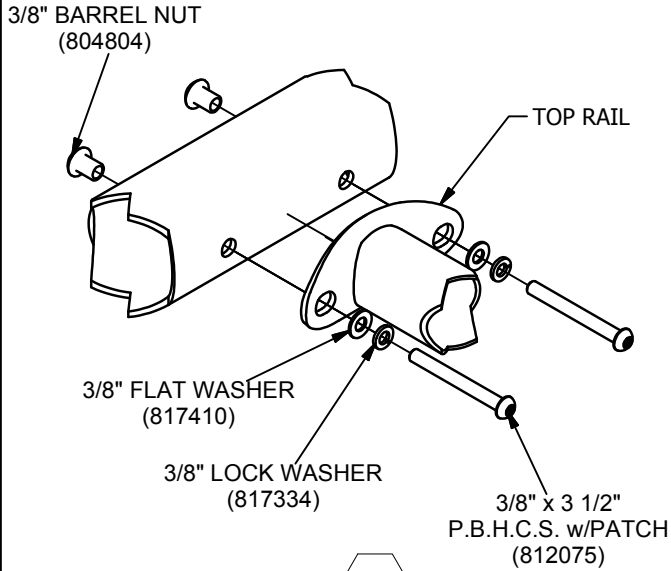
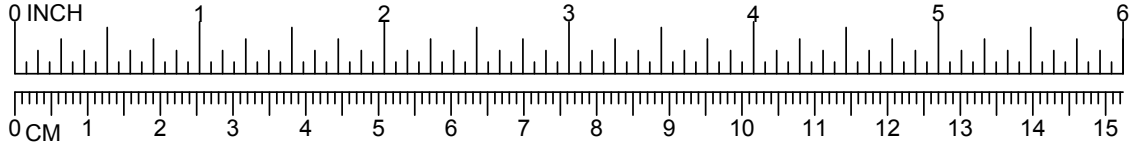
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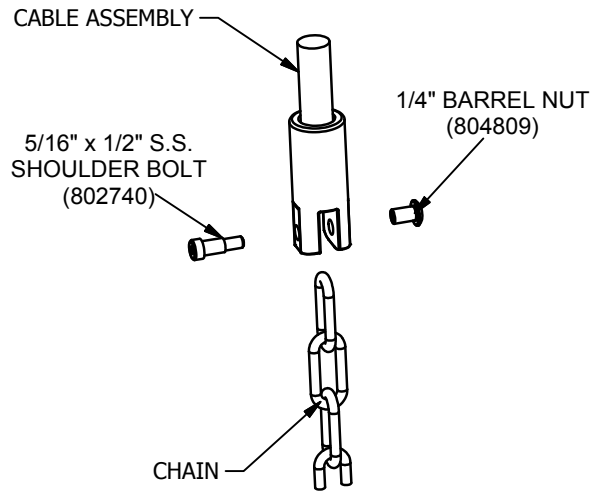
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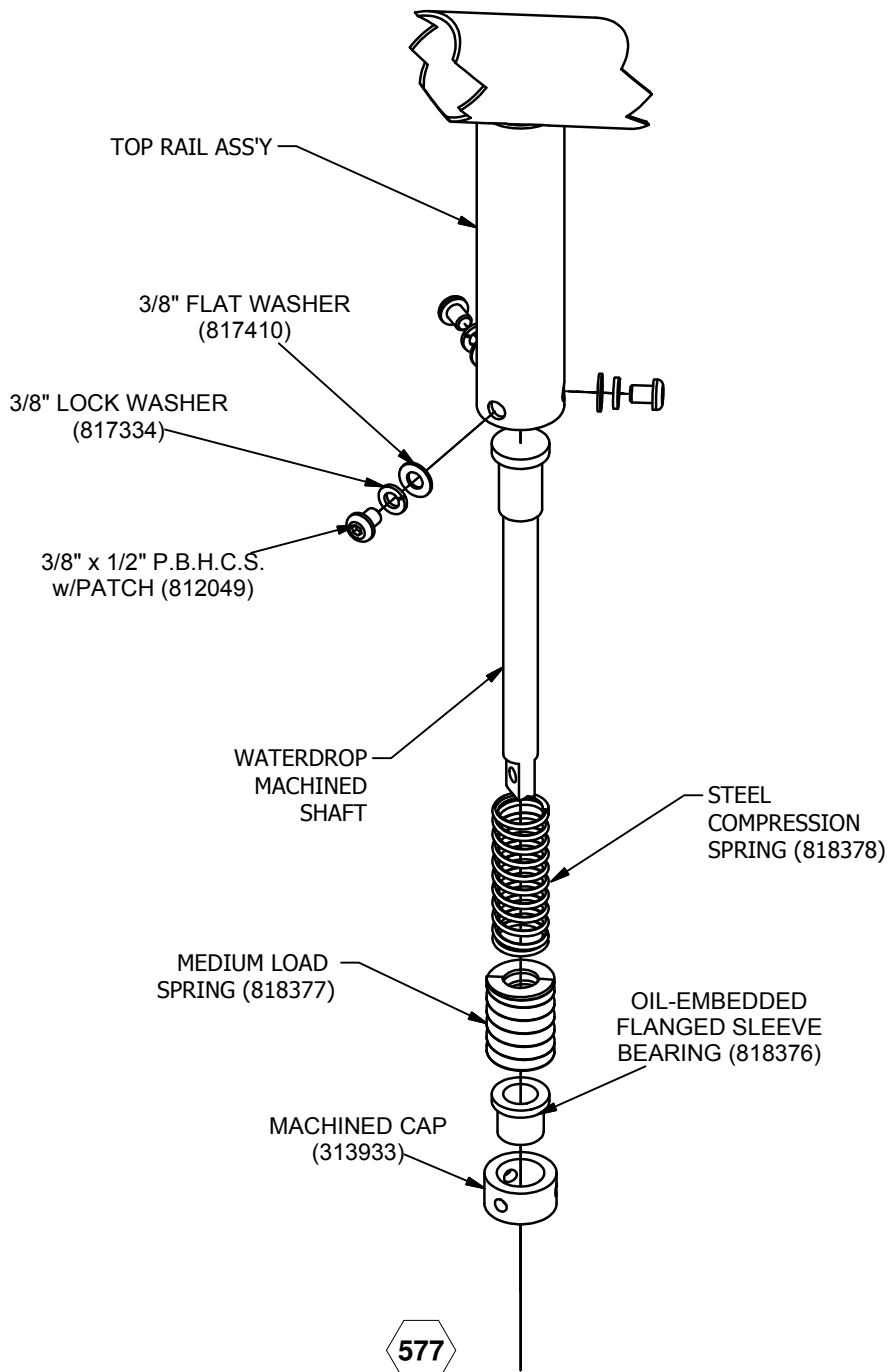
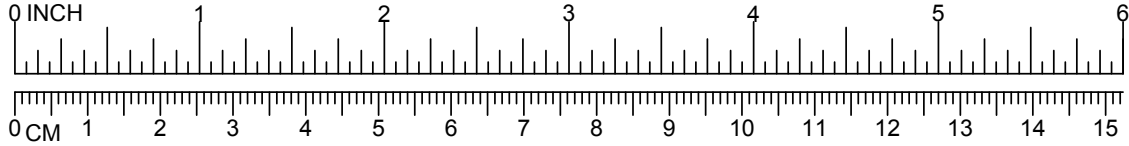
DETAILS -for- ASSEMBLY VIEW 3

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

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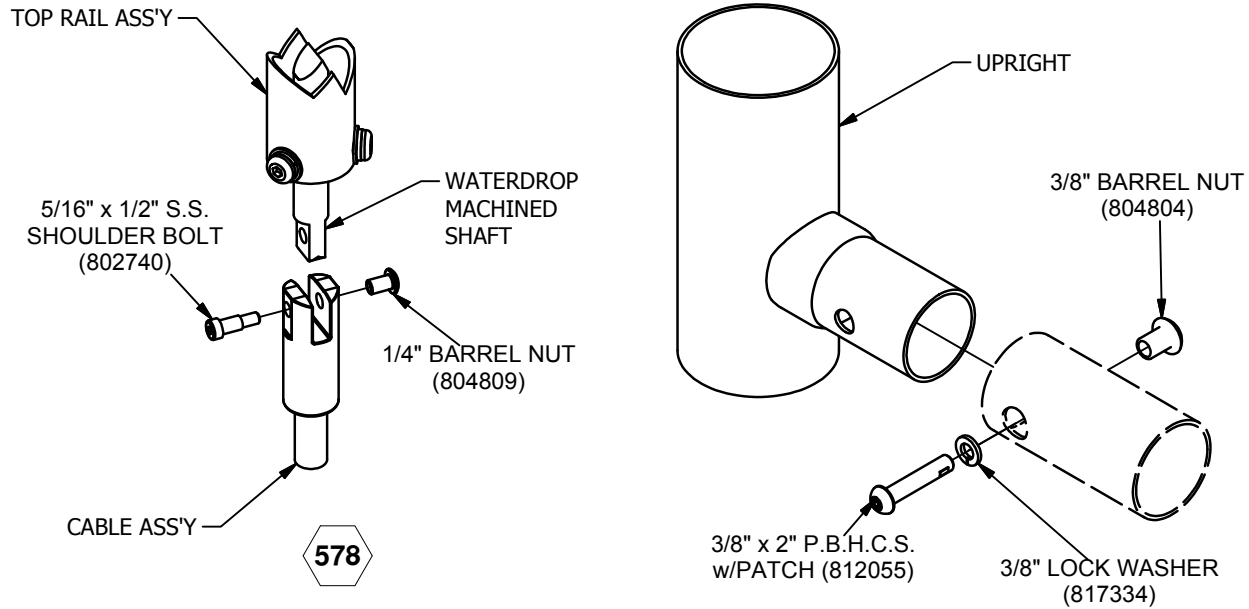
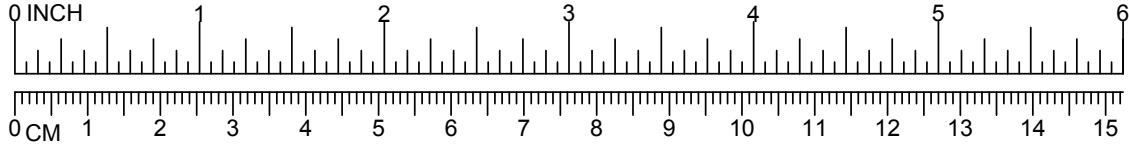
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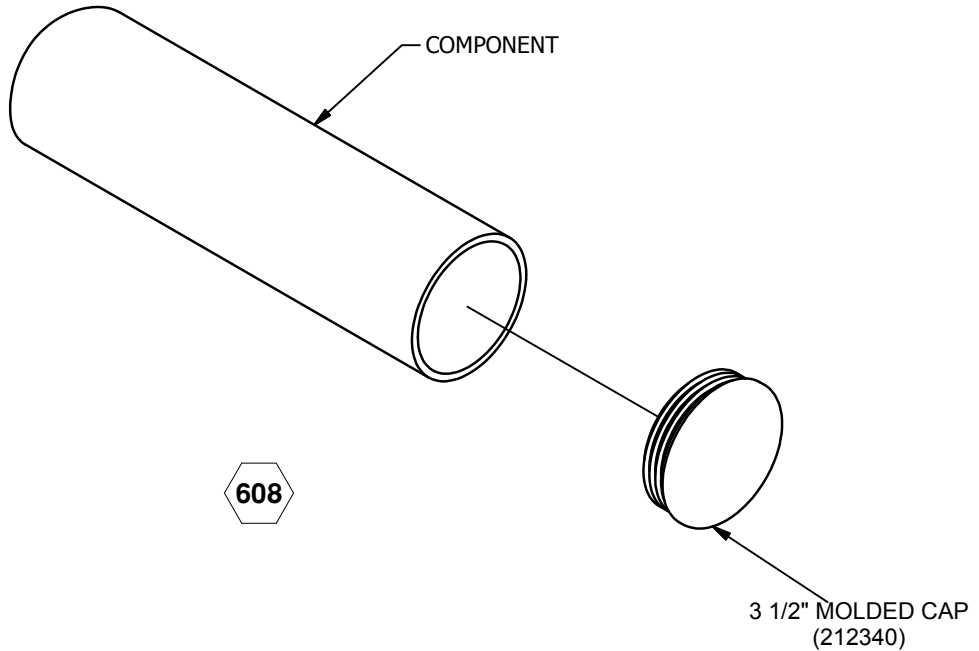
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