

M59027 SCHOOL BUS

Parts List		
DESCRIPTION	QTY	PART NUMBER
STEERING WHEEL ASSEMBLY	2	163235
90° ANGLE BRACKET	36	302334
55° ANGLE BRACKET	2	304712
ANGLE BRACKET	2	304980
LEG	6	402066
PLATFORM	1	405181
BUS FRONT	1	405389
BUS LEFT FENDER	1	405390
BUS RIGHT FENDER	1	405391
BUS LEFT SIDE PANEL	1	405392
BUS RIGHT SIDE PANEL	1	405393
BUS BACK	1	405394
BUS INTERIOR DOOR	1	405395
BUS BENCH SEAT	2	405396
BUS ROOF	1	405397
TAB	4	405418
---HARDWARE COMPLETE---	1	405398
#10 x 1 1/2" WOOD SCREW	20	815509
3/8" x 3/4" CARRIAGE BOLT	78	800252
3/8" x 3/4" P.B.H.C.S. w/PATCH	24	812052
3/8" x 2" LAG SCREW	14	800726
3/8" FLAT WASHER	24	817410
3/8" BARREL NUT	102	804804

*Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number*

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. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement.

Promptly cut-off flush, file smooth, and treat to prevent corrosion.

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.

SPECIFICATIONS:

STEERING WHEEL ASSEMBLY:

Shall be made from durable proprietary plastic which shall withstand an impact of over 250 foot-pounds. A grease impregnated bronze bushing is pressed into the shaft to provide smooth turning. Wheel is mounted using an all welded powder coated bracket ass'y consisting of an 11 ga. steel mounting disc and a 1 3/4" coupling nut.

90° ANGLE BRACKET:

Shall be fabricated from 3/16" x 2" hot rolled steel plate. The 90° Angle Bracket shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

55° ANGLE BRACKET:

Shall be fabricated from 3/16" x 1 3/4" hot rolled steel plate. The 55° Angle Bracket shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.



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ANGLE BRACKET:

Shall be fabricated from 1/8" x 1 1/2" pickled and oiled hot roll steel. The Angle Bracket shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

TAB:

Shall be fabricated from 3/16" x 1 1/2" hot rolled steel. The Tab shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

LEG:

Shall be an all welded construction fabricated from a 11 ga. laser cut tab and 1 1/4" O.D. (12 ga.) galvanized pipe. The Leg shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

PLATFORM:

Shall be constructed from nominal 2" x 4" frame and 3/4" thick densetic anti-skid hdpe. Platform is constructed using #10 stainless steel screws. All 2" x 4" parts are fiberglass reinforced for rigidity.

BUS FRONT, BUS LEFT FENDER, BUS RIGHT FENDER, BUS LEFT SIDE PANEL, BUS RIGHT SIDE PANEL, BUS BACK, BUS INTERIOR DOOR, BUS BENCH SEAT:

Shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60 lbs/ft³ and a tensile strength of 4400 PSI (30Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

BUS ROOF:

Shall be precision cut from a single solid sheet of .50" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60lbs/ft³ and a tensile strength of 4400 PSI (30Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

HARDWARE:

All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment shall be stainless steel, yellow dichromate plated steel, blue-coated plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 304 allow 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. Stainless steel fasteners shall be button pin-in head, hex socket cap screws with a two-part epoxy locking patch added to the threads. The two-part locking patch shall consist of one part resin and one part catalyst which are activated during installation. After curing, the material shall require a minimum of five times the installation torque to remove the fastener. Manufacturer shall provide special installation tools for pinned fasteners.

INSTALLATION INSTRUCTIONS:

1. Attach Bus Front to Platform using #10 x 1 1/2" Wood Screw. See Detail 284.
2. Attach Bus Left and Right Fender to Platform using #10 x 1 1/2" Wood Screw. See Detail 284.
3. Attach Bus Front to Bus Left and Right Fender using 90° Angle Bracket, 3/8" x 3/4" Carriage Bolt, and 3/8" Barrel Nut. See Detail 519.
4. Attach Bus Left and Right Side Panel to Platform using #10 x 1 1/2" Wood Screw. See Detail 284.
5. Attach Bus Left and Right Side Panel to Bus Left and Right Fender using Tab, 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 364.
6. Attach Bus Back to Platform using #10 x 1 1/2" Wood Screw. See Detail 284.
7. Attach Bus Back to Bus Left and Right Side Panel using 90° Angle Bracket, 3/8" x 3/4" Carriage Bolt, and 3/8" Barrel Nut. See Detail 519.
8. Attach Bus Interior Door to Bus Left and Right Side Panel using 90° Angle Bracket, 3/8" x 3/4" Carriage Bolt, and 3/8" Barrel Nut. See Detail 519.

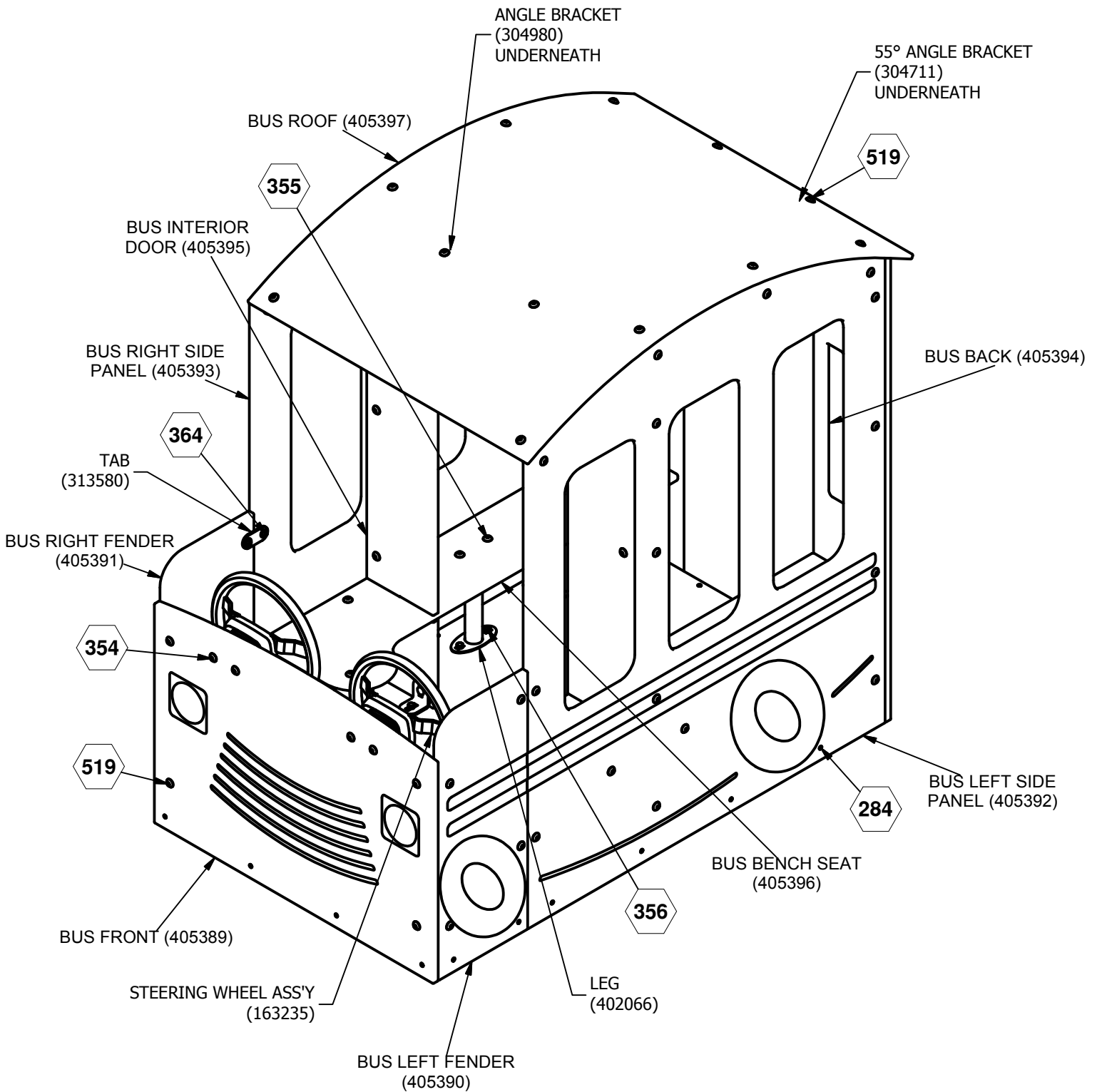
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9. Slide Bus Bench Seat into slot of Bus Interior Door.
10. Attach Bus Bench Seat to Bus Left and Right Side Panel and Bus Back Panel using 90° Angle Bracket, 3/8" x 3/4" Carriage Bolt, and 3/8" Barrel Nut. See Detail 519.
11. Attach Leg to the Bus Bench using 3/8" x 3/4" P.B.H.C.S w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 355.
12. Attach Leg to the Platform using 3/8" x 2" Lag Screw. See Detail 356.
13. Attach Bus Interior Door to Platform using 90° Angle Bracket, 3/8" x 3/4" Carriage Bolt, 3/8" x 2" Lag Screw, and 3/8" Barrel Nut. See Detail 294 and 519.
14. Attach the Steering Wheel Assembly to the Bus Front using 3/8" x 3/4" P.B.H.C.S w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 354.
15. Attach Bus Roof to Bus Left and Right Side Panel using 90° Angle Bracket, 3/8" x 3/4" Carriage Bolt, and 3/8" Barrel Nut. See Detail 519.
16. Attach Bus Roof to Bus Interior Door using 90° Angle Bracket, 3/8" x 3/4" Carriage Bolt, and 3/8" Barrel Nut. See Detail 519.
17. Attach Bus Roof to Bus Back using 90° Angle Bracket, 3/8" x 3/4" Carriage Bolt, and 3/8" Barrel Nut. See Detail 519.
18. Plumb and level the entire assembly and tighten all fasteners.
19. Check that all hardware connections are securely tightened. Smooth away sharp edges that may have been created during handling and assembly. Install resilient surfacing within the use zone of play structure in accordance with ASTM specifications F1292, and appropriate for the fall height of each structure. Refer to all applicable safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

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⬡ = INSTALLATION DETAIL

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FINISHED ASSEMBLY

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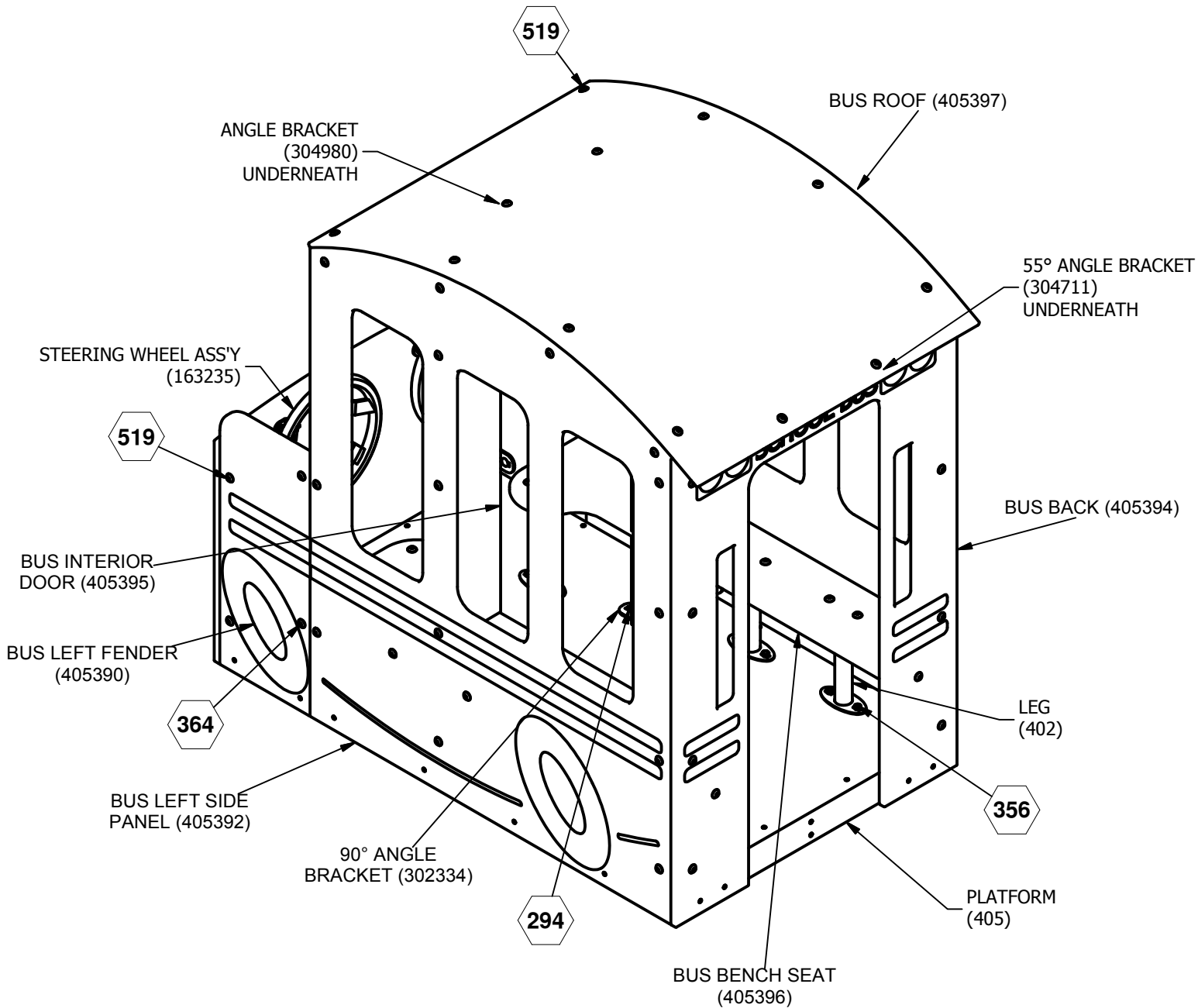
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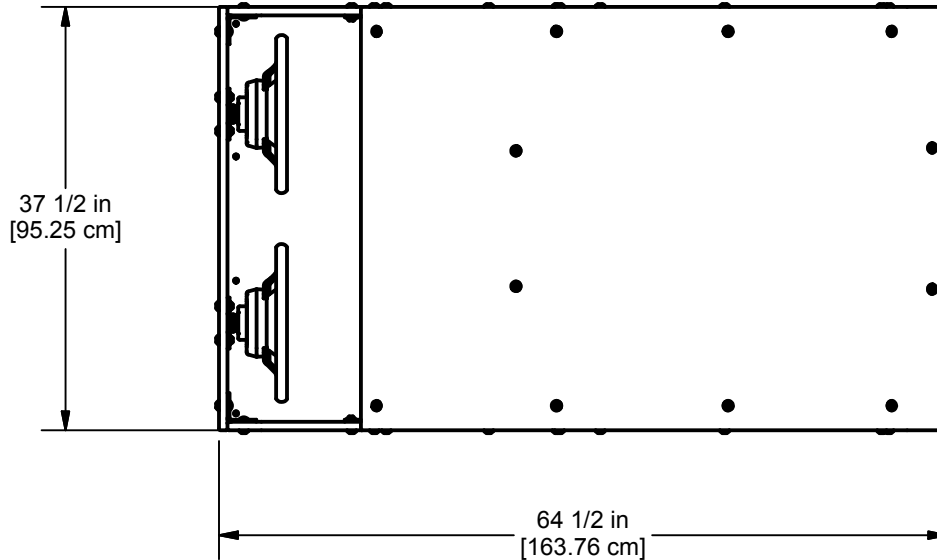
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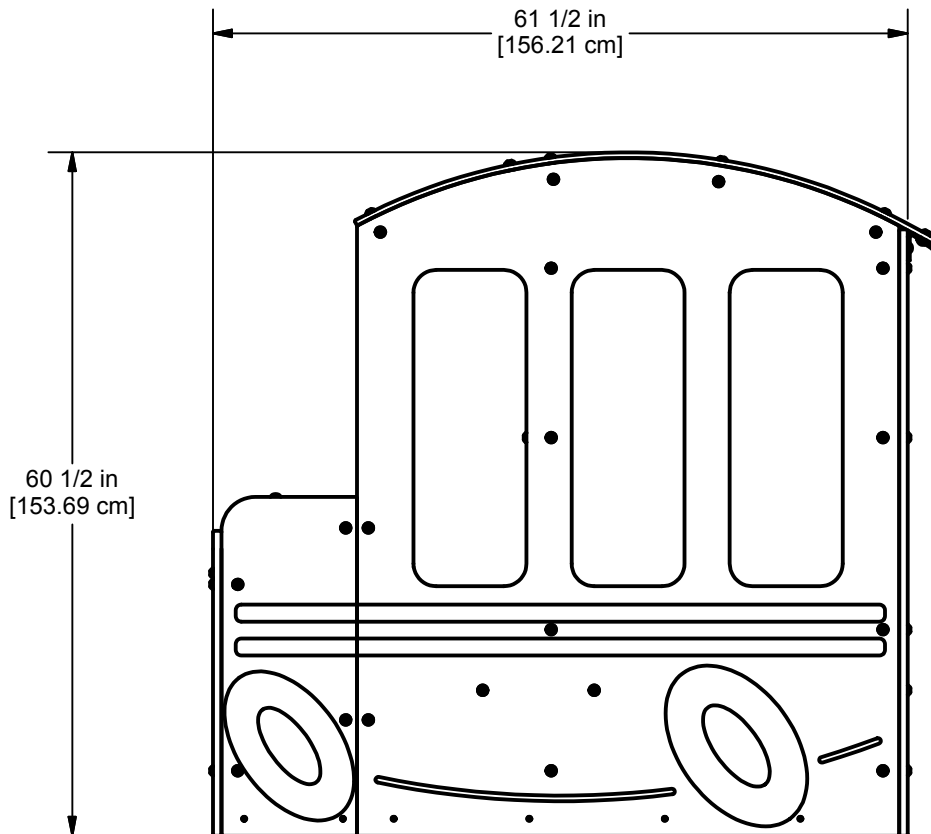


FINISHED ASSEMBLY
BACK VIEW

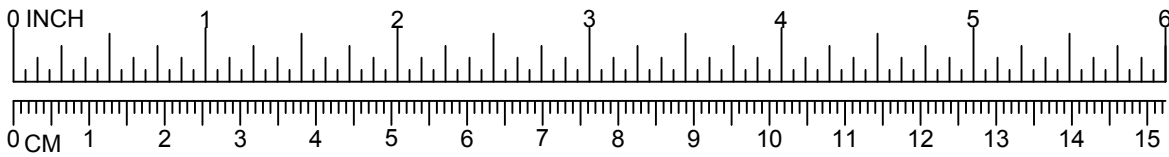
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PLAN VIEW

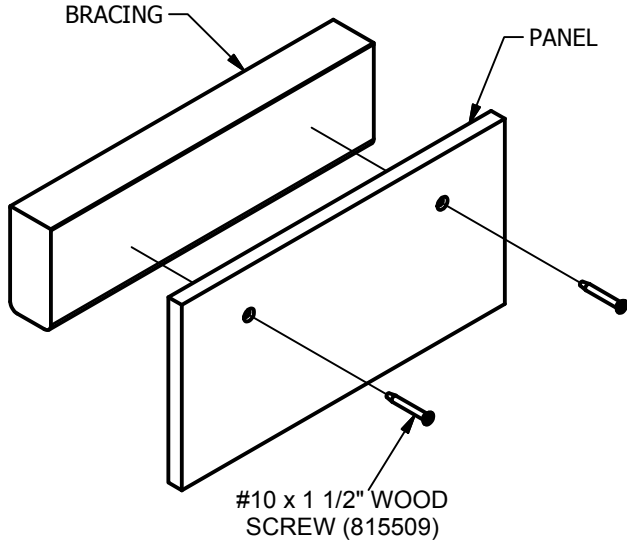


ELEVATION VIEW

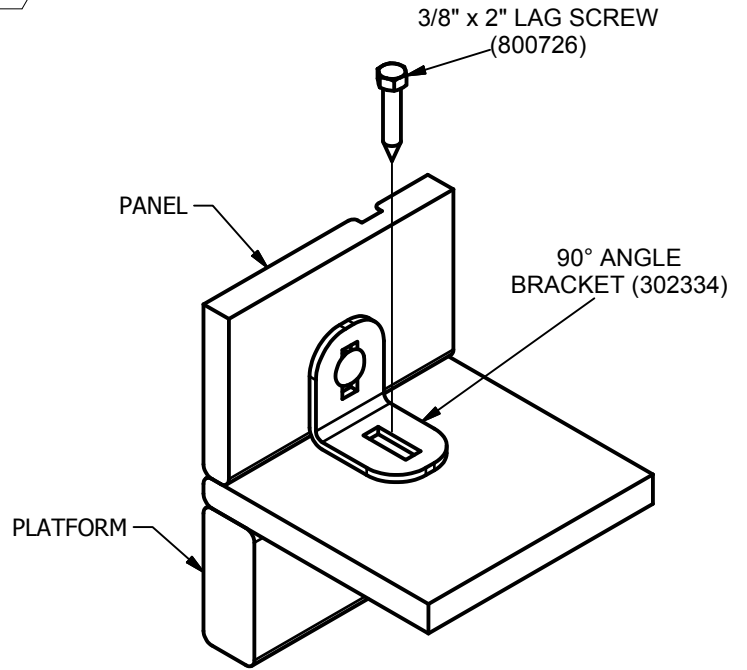


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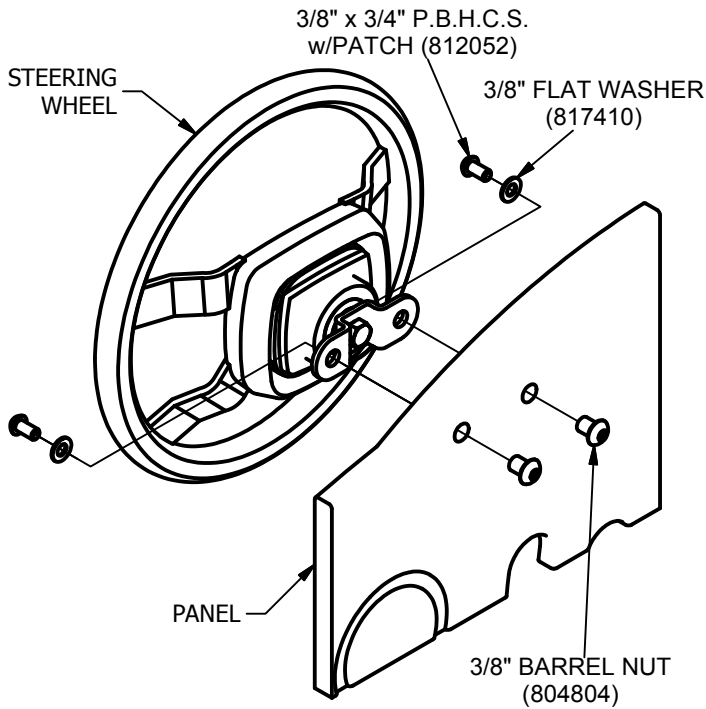
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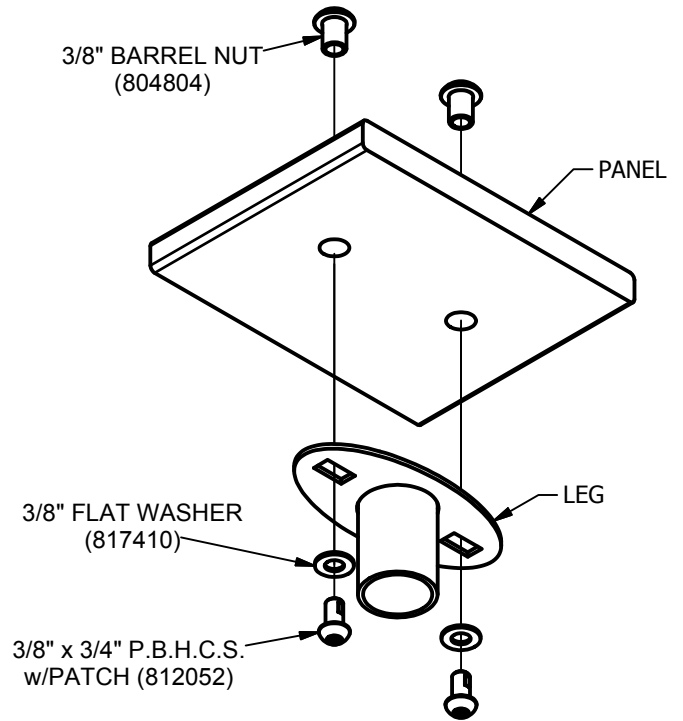
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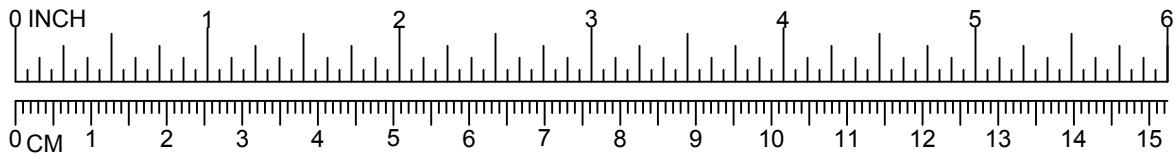


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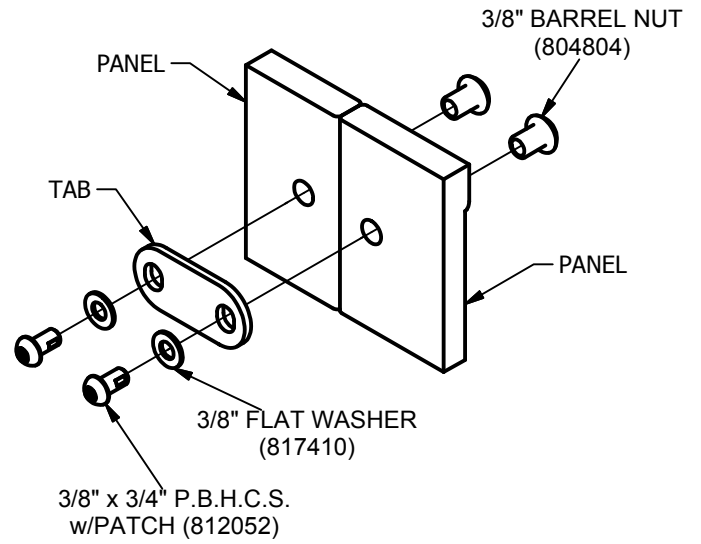
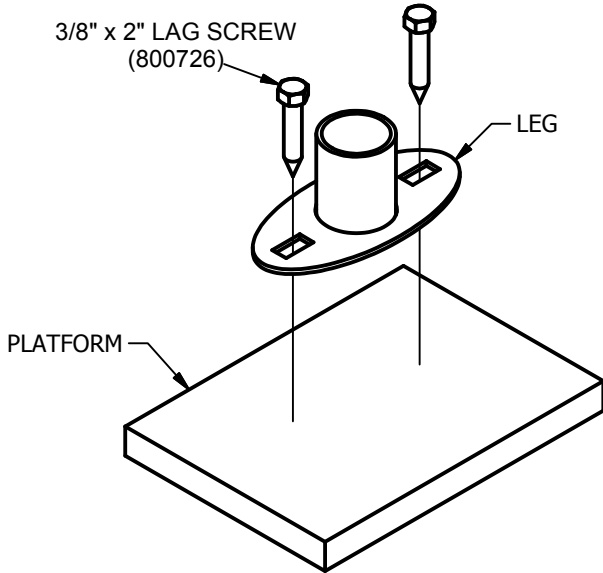




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