

TORO MULTI PRO 1200 and 1250 ROPS CAB MOUNTING INSTRUCTIONS



A-11262

Manufactured by:



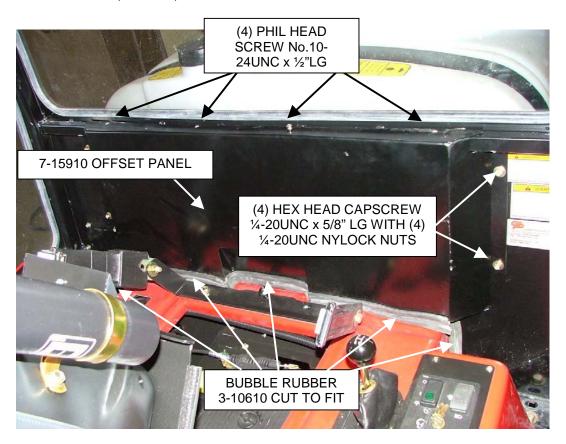
BOX 70 • LITCHFIELD, MINNESOTA 55355-0070 Phone: (800) 222-5463 Fax: (320) 693-4880



TORO MULTI PRO 1200 and 1250 ROPS CAB MOUNTING INSTRUCTIONS ADDENDUM APRIL 2004

In the spring of 2004, TORO-Multi Pro 1200-1250 designers increased the rear tank from a 160 gallon to 175 gallon capacity and relocated rinse and wash tanks to the front of the main tank. Custom Products, Inc. of Litchfield has updated the cabs to allow additional clearance to accept this tank. Additional parts have been added to the cab assembly, which are stated below. The panel comes from the factory install onto cab. This panel may be removed for cab installation.

- (1) OFFSET PANEL 7-15910
- (4) HEX HEAD CAPSCREWS, 1/4-20UNC x 5/8" long
- (4) NYLOCK NUT, 1/4-20UNC
- (4) PHILLIPS HEAD SCREW, No.10-24unc x 1/2" long
- (4) LOCK WASHERS, No.10-24UNC
- (1) BUBBLE RUBBER, 3-10610, 48" LG



A-11262

Manufactured by:



BOX 70 • LITCHFIELD, MINNESOTA 55355-0070 Phone: (800) 222-5463 Fax: (320) 693-4880 Website address: www.800cabline.com

A SAFETY INSTRUCTIONS

Read operator's manual. Be thoroughly familiar with the controls, capabilities, and proper use of the equipment.

NEVER ALLOW ANY RIDERS.

This cab fits both the 1200 and 1250 model vehicles.

Thoroughly inspect cab mounting periodically.

Stay alert for hidden hazards and traffic.

Avoid sudden starts, excessive speeds, and sudden stops when operating on hillside, rough ground and most off-the-road operations.

Use extreme care when working close to fences, ditches, or on hillsides.

Wait for vehicle to STOP before dismounting.

Check clearance carefully before driving under any objects.

Avoid operating sideways on a steep slope whenever possible.

ALWAYS buckle safety belt while operating vehicle.

Rollover Protection Structures (ROPS) Inspection Guide

ROPS, like any other safety device, need to be periodically inspected to verify that the integrity of the device has not been compromised through normal machine use, misuse, age degradation, modifications, or rollovers.

Some mechanical discretion is essential, therefore personnel who inspect ROPS need to comprehend and understand the significance of issues like structural corrosion, cracks, and deformation. Conservatism is the essential rule – if in doubt, remove the machine from service and contact the ROPS manufacturer for assistance. Certain conditions will absolutely render the ROPS unusable examples are:

- Permanent deformation or twisting
- Missing, damaged, or loose mounting hardware
- Mounting hardware that is of a grade lesser than specified
- Any cracks in the structure (structural members and/or welds)
- Significant corrosion
- Modifications, i.e. unauthorized welds and holes
- Missing or unreadable ROPS label(s)
- Applicable ROPS/machine model not specified on the ROPS label
- Machine GVW (including attachments, restrained payload, fuel and operator) in excess of the maximum weight specified on the ROPS label
- Missing, damaged or unusable operator restraint devices. (i.e. seatbelts)
- Any unauthorized repair
- Incomplete/improper installation

Other conditions may require imminent service but may not render the unit immediately unusable examples are:

- Faded paint
- Faded, hard to read ROPS label
- Heavily soiled operator restraint
- Slightly corroded mounting hardware

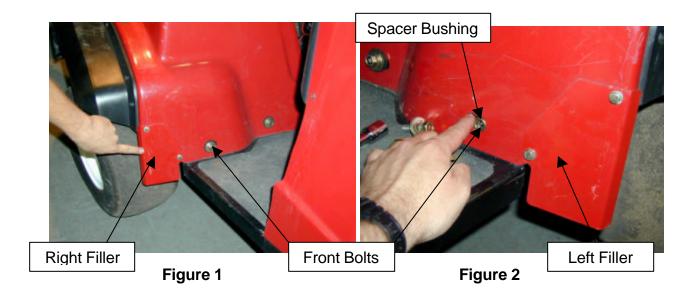
ROPS must be inspected immediately after any type of collision, rollover or impact. If any damage is evident, the ROPS must be removed from service, repaired and/or replaced.

When a ROPS is removed or reinstalled, mounting hardware must be examined for signs of over stressing. Damaged mounting hardware must be replaced before placing the ROPS back in service.

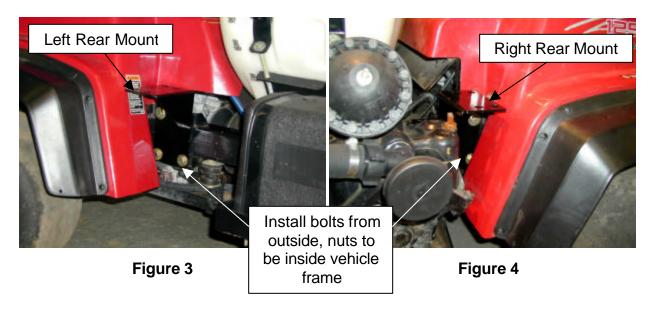
Operators are to be instructed to properly adjust and use restraints at all times.

Preparation of Vehicle

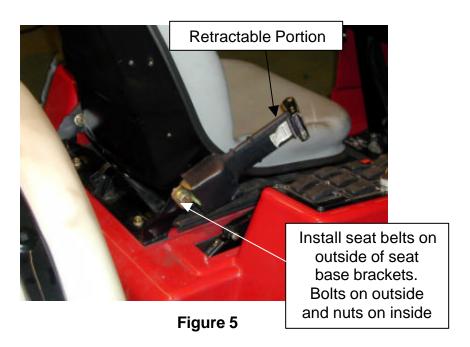
- 1) Remove ROPS, if installed. Empty and layout contents of mount kit box.
- 2) Remove left and right front filler panels and two front bolts. Make sure that both spacer bushings stay in holes prior to installation of cab. See Figures 1 and 2.

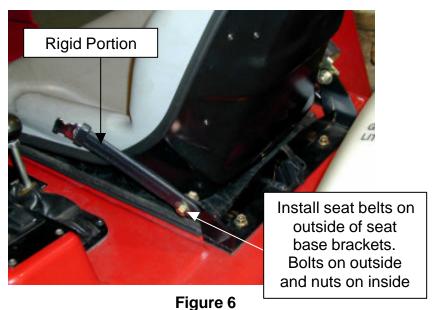


3) Install left and right rear mounts to vehicle frame. Each mount uses the (4) ROPS mount holes just aft of each front wheel fender. Attach mounts using (16) 7/16" flat washers, (8) ½-13 X 1½" bolts, and (8) ½-13 nylock nuts. Hardware may be left at a snug fit, leaving loose enough to adjust during installation of cab. If this is done, be sure hardware is tightened after cab is installed. See Figures 3 and 4.



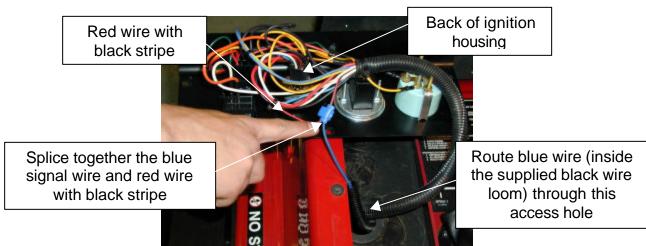
4) Attach seat belt to seat base brackets. Ensure that retractable portion is attached to the right bracket, and the rigid portion is attached to the left bracket. Attach seat belts using (4) 7/16" flat washers, (2) 7/16-14 X 1½" bolts, and (2) 7/16-14 nylock nuts. See Figures 5 and 6.





Electrical Hookup

- 5) **IMPORTANT** DISCONNECT THE VEHICLE ELECTRICAL POWER BEFORE PROCEEDING TO PREVENT PERSONAL INJURY AND DAMAGE TO THE VEHICLE ELECTRICAL SYSTEM.
- 6) Refer to the drawing titled "<u>Wiring Assembly, Headliner</u>" for electrical wiring specifications.
- 7) Remove relay/breaker harness assembly from bag and prepare for installation. Attach relay/breaker assembly to front side of electrical panel, under seat.
- 8) **NOTE** It is important that the relay/breaker assembly is mounted a reasonable distance forward of the engine. Ensure it is located in such a place to allow the wires to reach their appropriate locations.
- 9) Route the black ground wire from the relay/breaker assembly and attach its ring stud to a grounded vehicle fastener.
- 10) Route the red hot wire from the relay/breaker assembly and attach its ring stud to the solenoid hot terminal. Make sure rubber boot is re-installed over solenoid hot terminal.
- 11) Route the blue signal wire from the relay through the routing hole in left wheel well. Make sure that the wire is placed inside of black wire loom to provide protection inside wheel well.
- 12) Remove ignition/indicator panel, which is to the left of the seat. Route the blue signal wire (within black wire loom) from left wheel well through routing hole below ignition/indicator panel. See Figure 7.
- 13) Cut off the existing male slide on the end of the blue signal wire. It is not needed in this application.
- 14) Locate the red wire with black stripe that is connected to the bottom side of the ignition housing. Using the blue, in-line electrical splice, connect the blue signal wire to the red wire with black stripe. See Figure 7.
- 15) Neatly secure wires and ensure wires are not too close to hot engine surfaces. Lower seat and make sure seat base does not interfere with new wires in any way.



Cab Installation

- 16) Remove roof from cab by removing (4) ¼" bolts that secure roof to cab. Using two people, carefully remove roof and set aside until re-installation. Install lifting ears using (2) ½" X 1¼" bolts and (2) flat washers supplied in mount kit. See Figure 8.
- 17) Attach appropriate lifting straps/hooks to lifting ears in preparation of installation of cab. Remove hardware that secures the cab to the pallet. Suspend cab and remove rear shipping stand brackets. ***IMPORTANT*** DO NOT GO INSIDE OR UNDER CAB WHILE IT IS SUSPENDED. See Figure 9.
- 18) If installing cab on a Toro Multi Pro 1200, it will be necessary to remove rear, right filler panel. Once removed, re-attach trim seal around top of opening. See Figure 10.



Figure 8 Figure 9

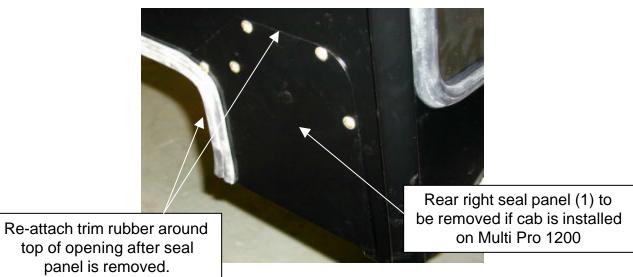
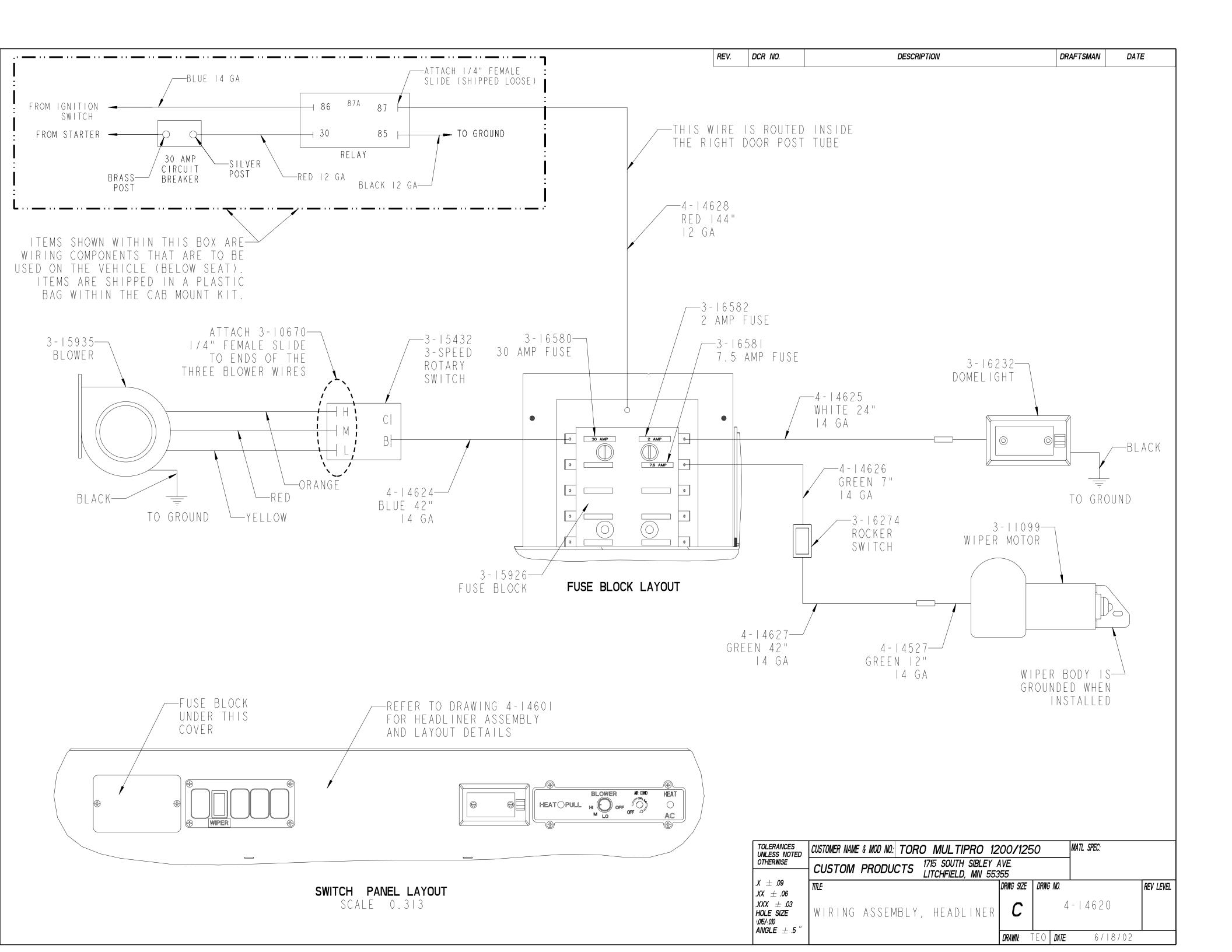


Figure 10

- 19) Lift cab over vehicle and carefully lower until the cab rests on the rear mounts and front foot deck.
- 20) Attach rear mounts of cab to rear mounts of vehicle using (8) $\frac{1}{2}$ -13 X 1 $\frac{1}{4}$ " bolts, (16) 7/16" flat washers and (8) $\frac{1}{2}$ -13 nylock nuts. Bolts to be installed from inside the cab and nuts on the outside.
- 21) If the vehicle rear mount hardware was left slightly loose for adjustment, fully tighten the hardware at this time.
- 22) Ensure front of cab rests evenly on foot deck and is centered horizontally on vehicle. Install (2) front fender bolts and rubber washers, making sure that the spacer bushings are still behind the cab mount. See Figures 1 and 2.
- 23) Match drill (6) 9/16" holes in the floor deck at the location of the (6) holes in the front cab mounts. Attach front of cab to floor deck using (6) ½-13 X 1½" bolts, (12) 7/16" flat washers and (6) ½-13 nylock nuts.
- 24) Make sure all installation hardware is secure. Remove (2) lifting ears, ½" bolts and washers. Carefully set roof back into place and secure using the hardware that was removed.
- 25) The cab main power wire (12ga red wire) is routed down the right center support post. Uncoil this wire and route it, within black wire loom, through the right rear corner of the cab and into the engine cavity. Refer to the electrical drawing titled "Wiring Assembly, Headliner". Trim wire to length and crimp onto the empty female slide on terminal 87 of the relay.
- 26) Reconnect the vehicle electrical power and check cab electrical components (i.e. dome light, ventilation and wiper).
- 27) It may be desired to adjust the vehicles' suspension to compensate for the weight of the cab. If so, refer the vehicle owners manual to properly, and safely, adjust the "Rubber Torsion Front Suspension".
- 28) Install the (2) rear corner filler mats. The mats are installed inside the cab, and friction holds them in place over the inside rear mounts.
- 29) Cab installation is now complete.

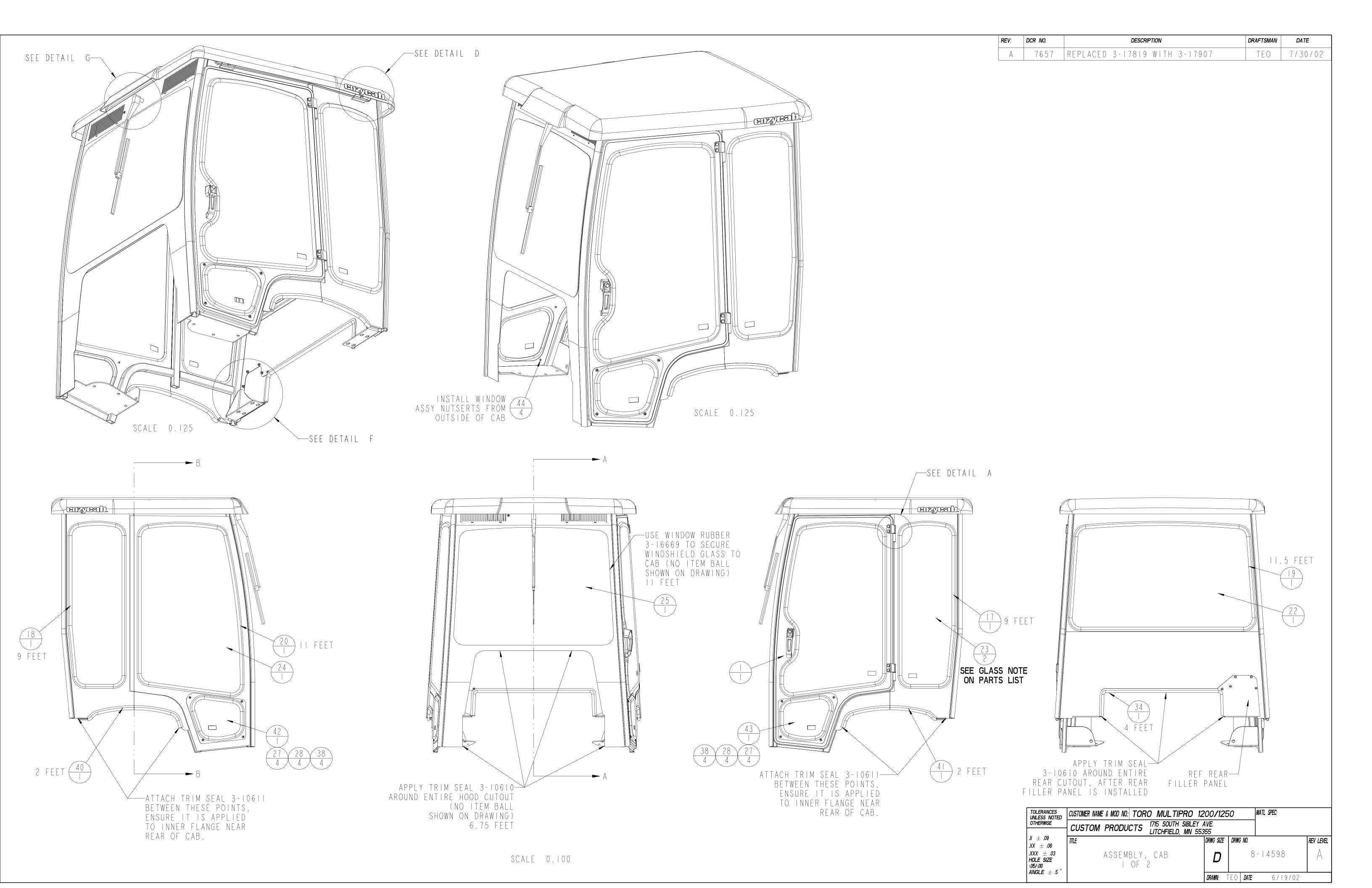


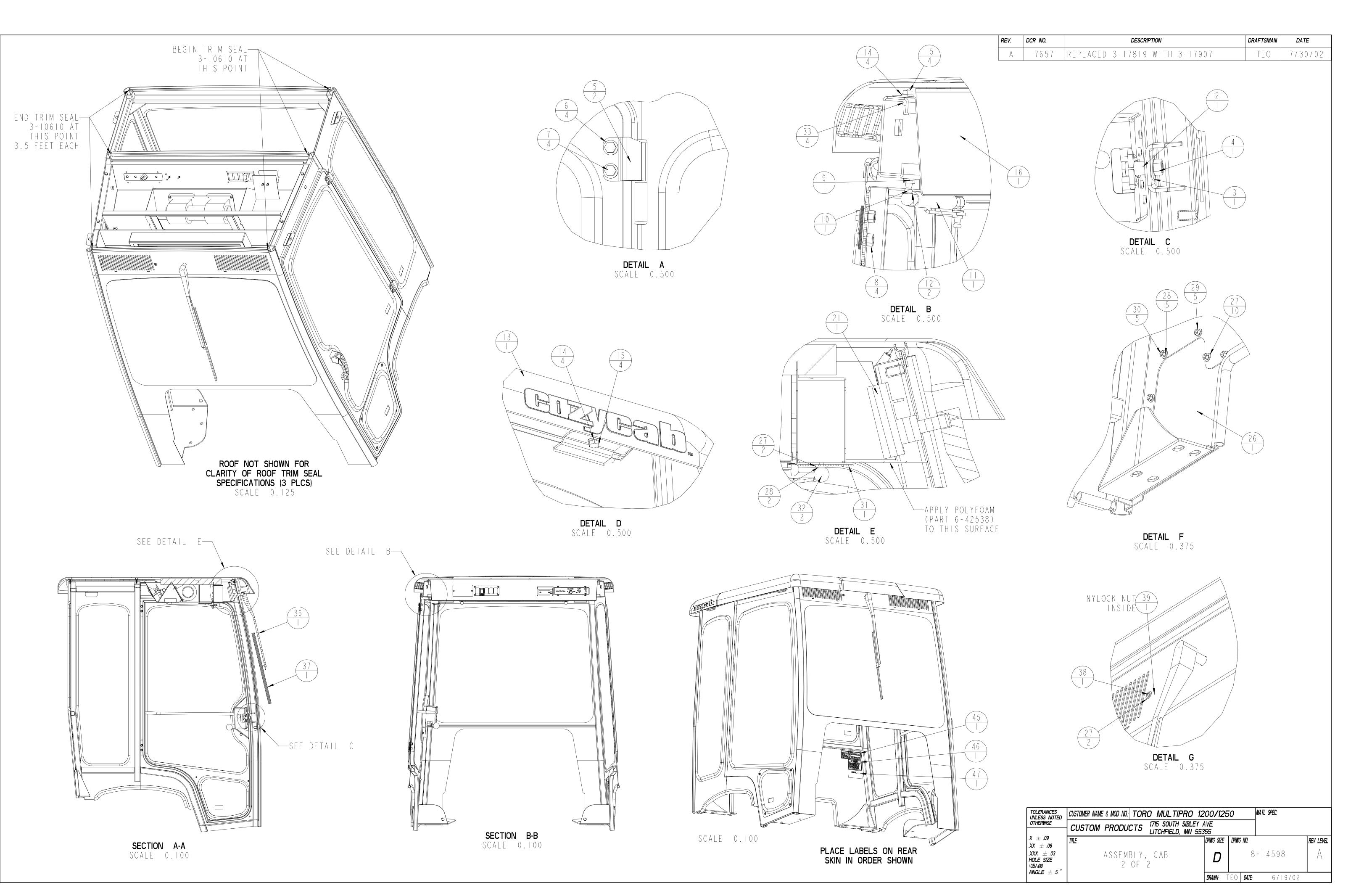
Toro Multi Pro 1200/1250 ROPS Cab Assembly, Cab Replacement Parts List 8-14598

Item	Qty	Part No.	Description
1	1	8-14599	Assembly, Door, Left
2	1	3-15407	Striker Stud & Washer, Long
3	1	3-10166	Washer, Flat .437 Type A, W SER
4	1	3-10472	Nut, Hex, Nylock, .437-14 NC
5	2	7-15695	Weldment, Door Hinge
6	4	3-10084	Washer, Flat .250 Type A, W SER
7	4	3-10386	Hex Head Cap Screw, 312-18 NC x .750 Grd. 5
8	4	3-10072	Nut, Hex, Nylock, .312-18 NC
9	1	3-10077	Washer, Lock, HEL Spring, .312
10	1	3-11821	Ball Stud, Gas Spring, 10mm
11	1	3-13024	Gas Spring, 20 PSI x 6" Stroke
12	2	3-11822	Clip, Gas Spring, 10mm
13	1	8-14600	Assembly, Roof
14	8	3-10076	Washer, Lock, HEL Spring, .250
15	8	3-10220	Hex Head Cap Screw, .250-20 NC x 1.00 Grd. 5
16	1	8-14601	Assembly, Headliner
17	9 FT	3-16669	Left Rear Window Rubber Offset (1/8 Glass)
18	9 FT	3-16669	Right Rear Window Rubber Offset (1/8 Glass)
19	11.5 FT	3-16669	Rear Window Rubber Offset (1/8 Glass)
20	11 FT	3-16669	Right Upper Window Rubber Offset (1/8 Glass)
21	1	3-11099	Wiper Motor, 12V, 1 Shaft
22	1	3-17818	Glass, Rear Window
23	2	3-17819	Glass, Side, Rear (Cab Serial # 1-22)
-OR-	-OR-	-OR-	-OR-
23	2	3-17907	Glass, Side, Rear (Cab Serial # 23 and higher)
24	1	3-17824	Glass, Right Side, Upper
25	1	3-17817	Glass, Windshield
26	1	6-42516	Filler Panel, Rear Skin
27	22	3-10083	Washer, Flat, .187 Type A, W SER
28	15	3-10088	Washer, Lock, Hel Spring, .187
29	5	3-10110	Nut, Hex, #10-24 NC
30	5	3-10104	Machine Screw, #10-24 NC x .625 TH SL
31	1	6-42522	Access Cover, Filter
32	2	3-17514	Knob, Black Plastic, Round, 10-24 NC
33	4	3-14387	Nut-Sert, .250-20 NC
34	4 FT	3-10610	Rubber, Clip-on Bubble, Rear Lower

Toro Multi Pro 1200/1250 ROPS Cab Assembly, Cab (Continued) Replacement Parts List 8-14598

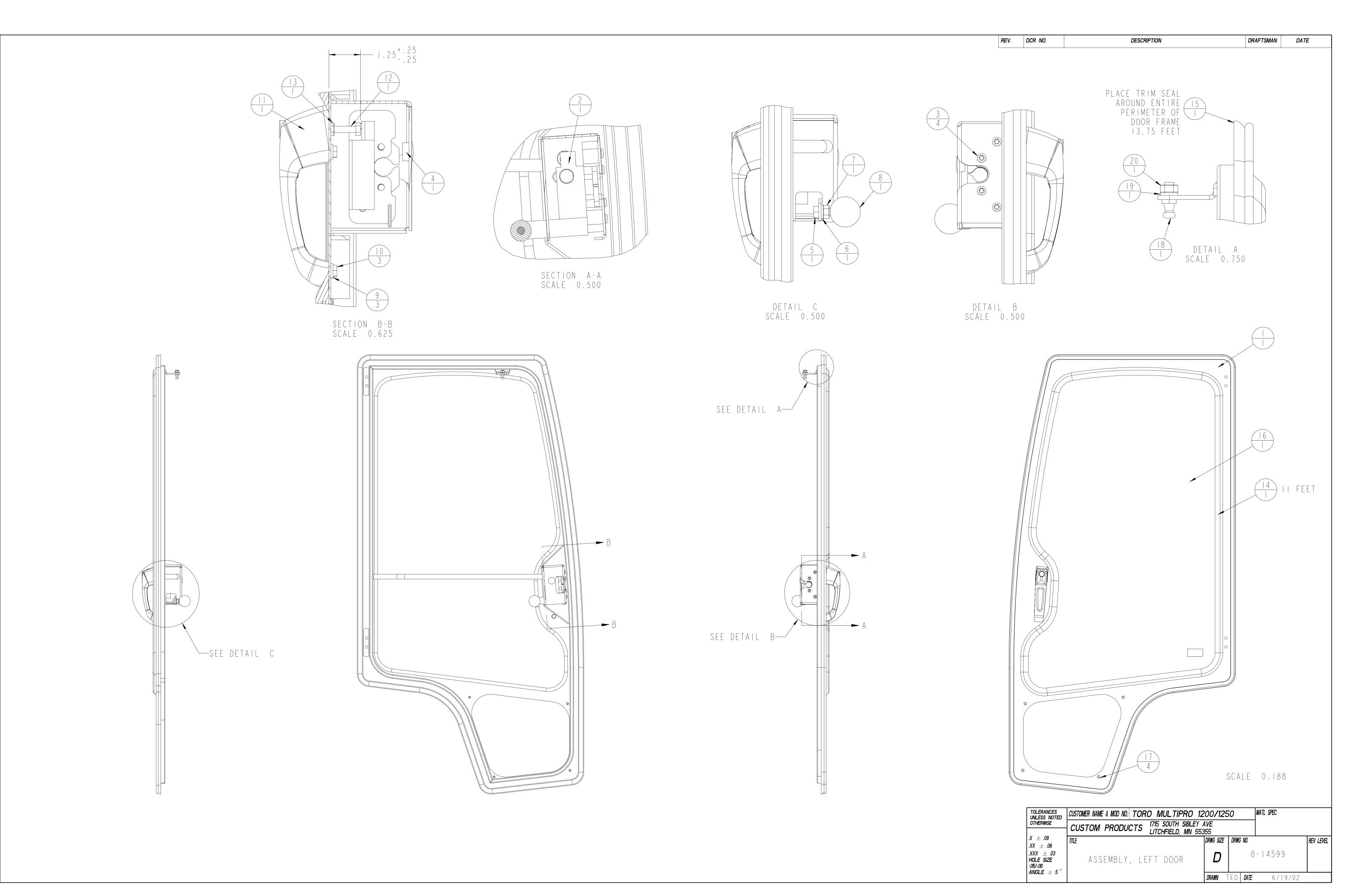
Item	Qty	Part No.	Description
35	1	6-42538	Insulation, Filter Housing
36	1	3-11091	Wiper Arm, 15-19 Adj, WWF, Narrow
37	1	3-15833	Wiper Blade, 18 Flex, Narrow
38	9	3-17331	Machine Screw, #10-24 NC x .50 PH Phil
39	1	3-10308	Nut, Hex, Nylock, #10-24 NC
40	2 FT	3-10611	Rubber, Clip-on Bubble, Right Fender
41	2 FT	3-10611	Rubber, Clip-on Bubble, Left Fender
42	1	8-14602	Assembly, Window Insert, Right
43	1	8-14603	Assembly, Window Insert, Left
44	4	3-16600	Nut-Sert, #10-24 UNC
45	1	3-17899	Decal, Warning, Filter
46	1	3-17891	Decal, Warning, ROPS
47	1	3-17171	Decal, Serial # / Certification





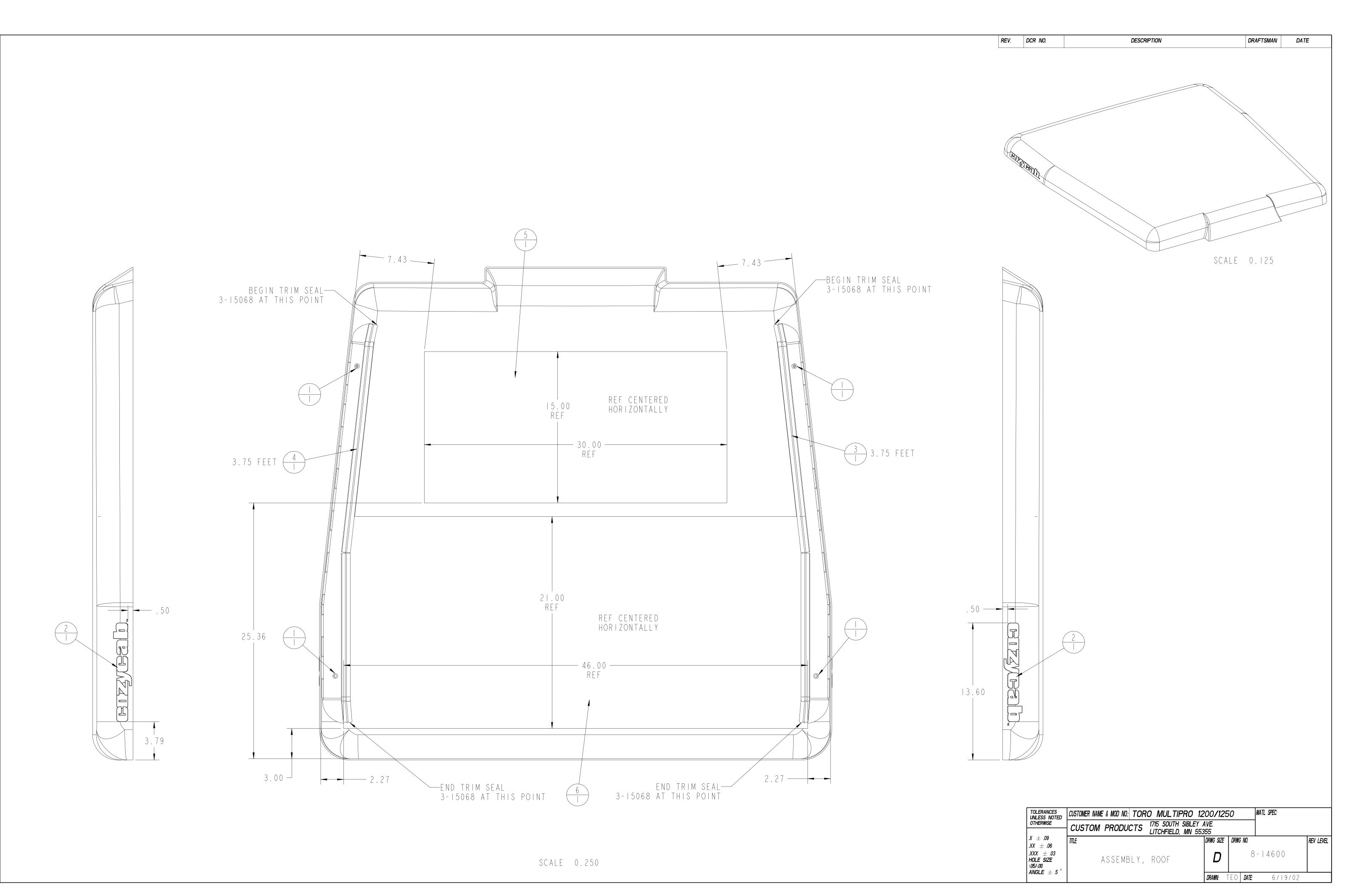
Toro Multi Pro 1200/1250 ROPS Cab Assembly, Left Door Replacement Parts List 8-14599

Item	Qty	Part No.	Description
1	1	7-15677	Weldment, Door, Left
2	1	3-15567	Latch, Rotary, Push Button
3	4	3-10106	Machine Screw, .250-20 NC x .63 BH TORX
4	1	3-11741	Plug, Hole, Plastic, .750 Dia.
5	1	3-10147	Hex Head Cap Screw, .375-16 NC x 1.00 Grd 5
6	1	3-10078	Washer, Lock, Hel Spring, .375
7	1	3-10065	Nut, Hex, .375-16 NC
8	1	3-14231	Knob, Round Black
9	3	3-10076	Washer, Lock, Hel Spring, .250
10	3	3-12692	Hex Head Cap Screw, M 6X 15X1.00C 933 Grd. 8.8
11	1	3-17742	Handle, Exterior, Black, Key CH751
12	1	3-10204	Hex Head Cap Screw, .250-20 NC x 1.50 Grd. 5
13	1	3-10063	Nut, Hex, .250-20 NC
14	11 FT	3-16669	Left Door Window Rubber Offset (1/8 Glass)
15	13.75 FT	3-15952	Left Door Trim Seal, 3/4 OD Bubble, 1/8 Mat
16	1	3-17820	Glass, Door, Upper
17	4	3-16600	Nut-sert, #10-24 UNC
18	1	3-11821	Ball Stud, Gas Spring, 10mm
19	1	3-10077	Washer, Lock, Hel Spring, .312
20	1	3-10064	Nut, Hex, .312-18 NC



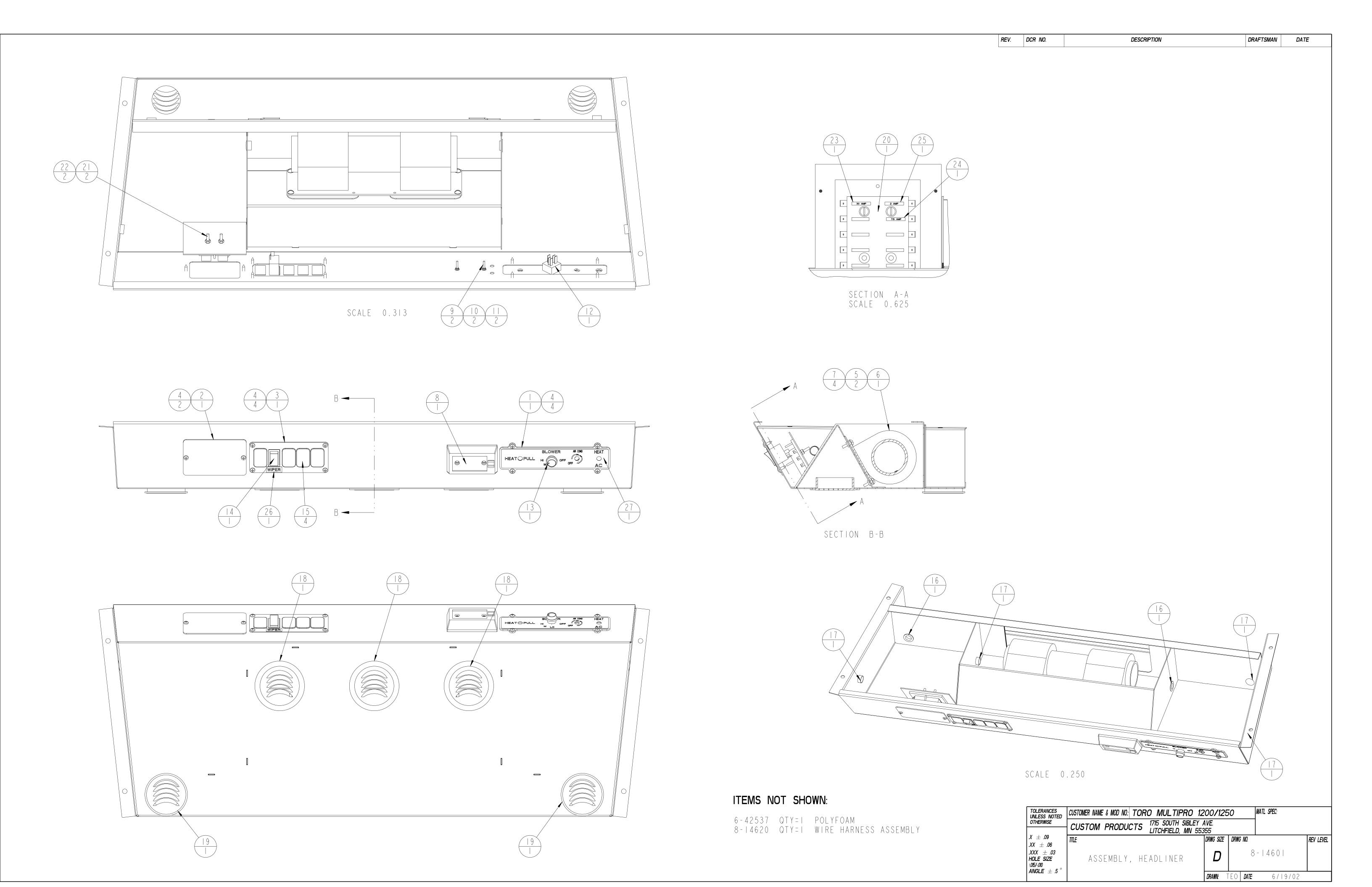
Toro Multi Pro 1200/1250 ROPS Cab Assembly, Roof Replacement Parts List 8-14600

Item	Qty	Part No.	Description
1	4	3-14387	Nut-Sert, 1/4-20 NC
2	2	3-17564	"Cozy Cab" Decal
3	3.75 FT	3-15068	Seal Rubber, 3/8" OD Bubble, Left Side Roof
4	3.75 FT	3-15068	Seal Rubber, 3/8" OD Bubble, Right Side Roof
5	1	6-42458	Roof Insulation, 1.50" Thick
6	1	6-42459	Roof Polyfoam, Heather Charcoal, 1/4" Thick



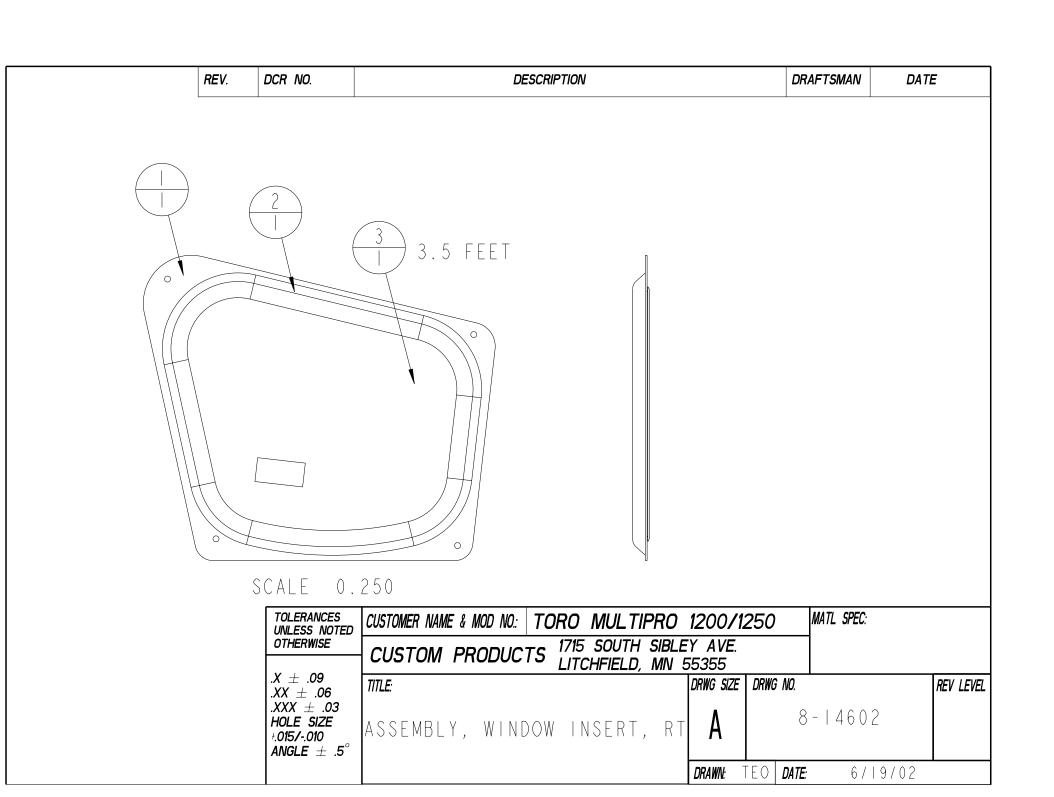
Toro Multi Pro 1200/1250 ROPS Cab Assembly, Headliner Replacement Parts List 8-14601

Item	Qty	Part No.	Description
1	1	6-40504	Switch, Mounting Plate
2	1	6-40505	Cover, Fuse Plate
3	1	6-40506	Switch Plate, Wiper/Lights
4	10	3-11812	Selftap, #10 x .625 PH PHIL, A
5	2	3-11202	Gasket, Square Blower
6	1	3-15935	Blower, Dual Wheel, 235 CFM
7	4	3-10105	Machine Screw, #10-24 NC x .750 TH PHIL
8	1	3-16232	Domelight, 12V, 4.0 x 2.5
9	2	3-16984	Machine Screw, #6-32 NC x 1.50 RH SL
10	2	3-10088	Washer, Lock, Hel Spring, .187
11	2	3-12637	Nut, Hex, #6-32 NC
12	1	3-15432	Switch, 3Spd Rotary
13	1	3-11173	Knob, Switch, Blower
14	1	3-16274	Switch, Rocker, On-Off
15	4	3-16677	Plug, Rocker Switch Hole
16	2	3-12091	Grommet, Snap Bushing, .750
17	4	3-11741	Plug, Hole, Plastic, .750 Dia.
18	3	3-15594	Louver, Round, Fits 3.04 Hole
19	2	3-15928	Louver, Black Round 3.00
20	1	3-15926	Fuse Block, 10 Slot, ATO/ATC
21	2	3-10099	Machine Screw, #10-24 NC x 1.500 RH SL
22	2	3-10308	Nut, Hex, Nylock, #10-24 NC
23	1	3-16580	Fuse, ATO/ATC, 30 Amp
24	1	3-16581	Fuse, ATO/ATC, 7.5 Amp
25	1	3-16582	Fuse, ATO/ATC, 2 Amp
26	1	3-10542	Decal, Wiper, Silver
27	1	3-15982	Decal, AC-Heater-Blower
28	1	6-42537	Insulation, Headliner, Main
29	1	8-14620	Wiring Assembly, Headliner



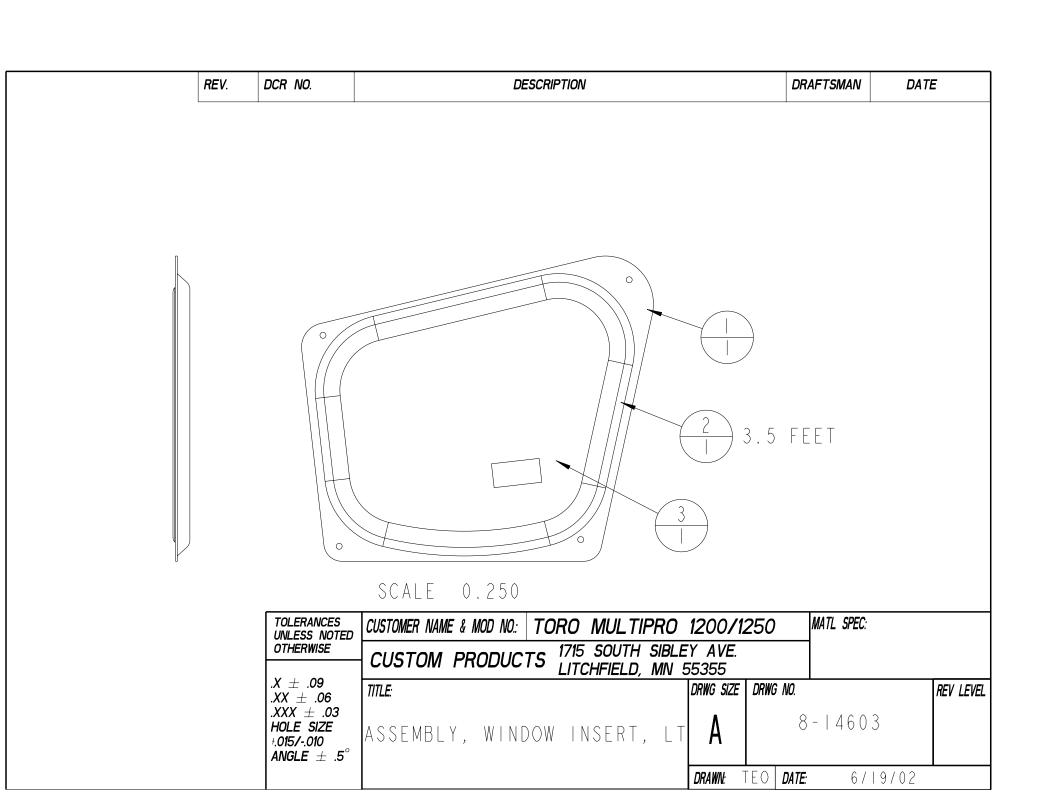
Toro Multi Pro 1200/1250 ROPS Cab Assembly, Window Insert, Right Replacement Parts List 8-14602

Item	Qty	Part No.	Description
1	1	6-42375	Skin, Insert Window
2	3.5 FT	3-16669	Right Side Insert Rubber Window Offset (1/8 Glass)
3	1	3-17821	Glass, Window Insert



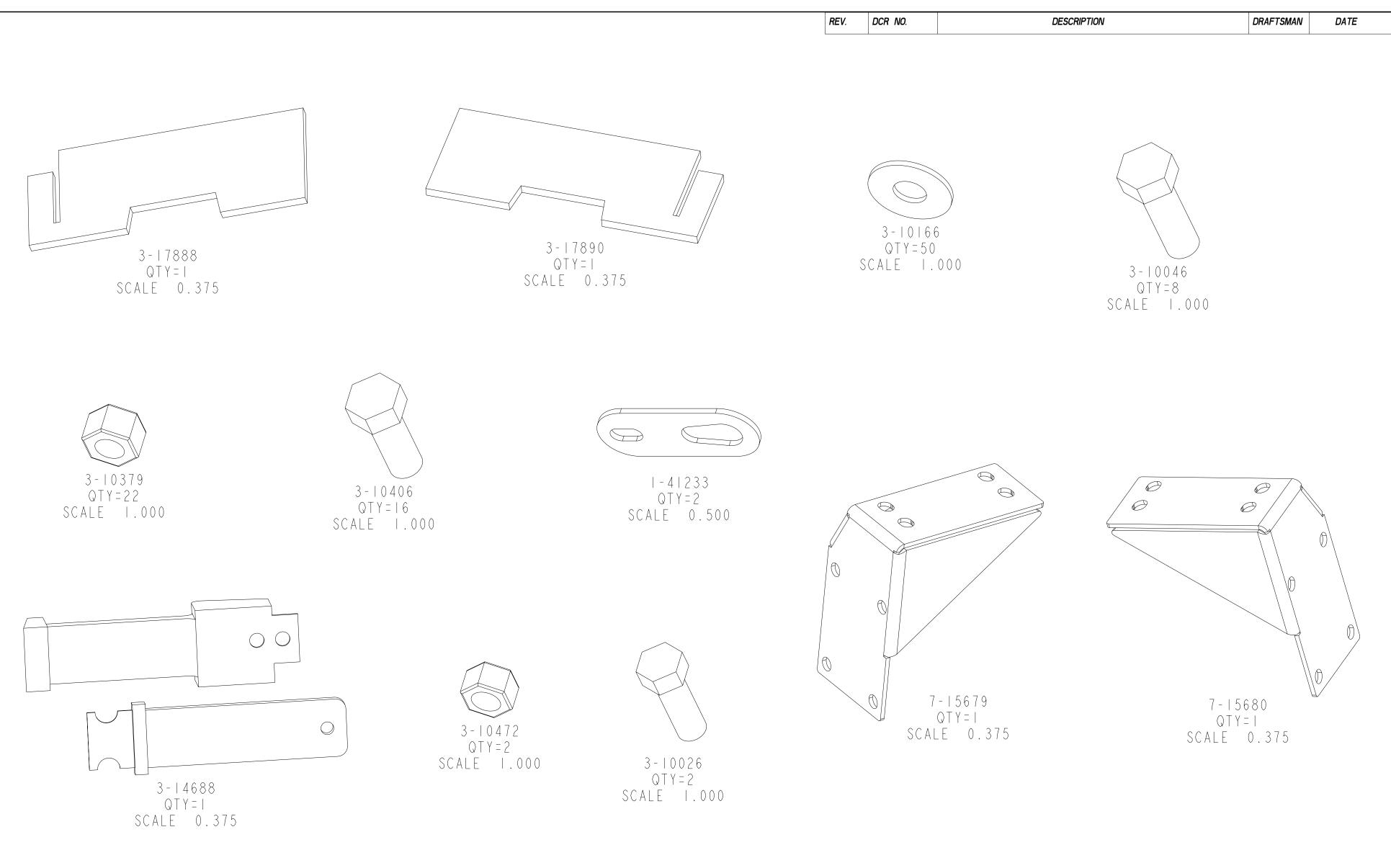
Toro Multi Pro 1200/1250 ROPS Cab Assembly, Window Insert, Left Replacement Parts List 8-14603

Item	Qty	Part No.	Description
1	1	6-42375	Skin, Insert Window
2	3.5 FT	3-16669	Left Side Insert Rubber Window Offset (1/8 Glass)
3	1	3-17821	Glass, Window Insert



Toro Multi Pro 1200/1250 ROPS Cab Assembly, Mount Kit Replacement Parts List 8-14604

Item	Qty	Part No.	Description
1	1	3-17888	Ensolite, Rear Corner, Left
2	1	3-17890	Ensolite, Rear Corner, Right
3	50	3-10166	Washer, Flat .437 Type A, W SER
4	8	3-10046	Hex Head Cap Screw, .500-13 NC x 1.50 Grd. 5
5	22	3-10379	Nut, Hex, Nylock, .500-13 NC
6	16	3-10406	Hex Head Cap Screw, .500-13 NC x 1.25 Grd. 5
7	2	6-41233	Lifting Ear, with Slot
8	1	7-15679	Weldment, Mount, Right Rear
9	1	7-15680	Weldment, Mount, Left Rear
10	1	3-18524	Seat Belt, Retractable, 2 PC, 55
11	2	3-10472	Nut, Hex, Nylock, .437-14 NC
12	2	3-10026	Hex Head Cap Screw, .437-14 NC x 1.25 Grd. 5
13	1	3-17803	Universal Harness, Relay/Breaker (In Bag)
14	3 FT	3-10704	Wire Duct, .350 ID
15	1	05-10394	Mounting Instructions, Cab Assembly



ITEMS NOT SHOWN:

3-17803 QTY=1 UNIVERSAL HARNESS (IN BAG) 3-10704 QTY=3 FEET WIRE LOOM, .350 ID 05-10394 QTY=1 MOUNTING INSTRUCTIONS

TOLERANCES UNLESS NOTED	CUSTOMER NAME & MOD NO.: TORO MULTIPRO 120	00/1250 MATL SPEC:
OTHERWISE	CUSTOM PRODUCTS 1715 SOUTH SIBLEY AV	
$egin{array}{ccccc} .X & \pm & .09 \ .XX & \pm & .06 \end{array}$	TITLE:	RWG SIZE DRWG NO. REV LEVEL
.XXX ± .03 HOLE SIZE ±.015/010 ANGLE ± .5°	ASSEMBLY, MOUNT KIT	C 8-14604