

Summary	Retrofit installation of front windbars			
Products Affected	Powerhouse			
Key Word Tags				
Tools/Equipment (If Required)	Forklift and Scissors Lift, Wrench Set, Clamps, Measuring Square, Electric Drill, Torx T40 Bit/Driver, Center Punch, 3/4" Step Drill Bit, 3/8" and 1/2" Drill Bits, "J" size drill bit (included in kit)			
Parts/Materials (If Required)	KIT,FRONT WINDBAR,PH-SD R1600847-0X			
Related Media				
Author	B. Drifka	Issue Date	3/8/17	Status Active

Please Read The Entire Bulletin Before Proceeding

The purpose of this bulletin is to explain the retrofit process for the field installation of front (side column mounted) strapped wind bars on the Powerhouse door.



LOWER DOOR AND TURN OFF POWER.



The disconnect must be in the OFF position and properly locked and tagged before performing the next step of the procedure.

DRILL & MOUNT (2) FRONT STRAP CLAMP ASSEMBLIES (FIG. 1-2):

1. MARK DRILL LOCATIONS AT THE CENTER (VERTICALLY) OF THE LOWER HORIZONTAL TRUSS BEAM SPACED 18" (HORIZONTALLY) FROM EACH FRONT END PLATE INNER EDGE.
2. DRILL A 1/2" DIA HOLE THRU LOWER TRUSS BEAM AT EACH MARK.
3. MOUNT WINDBAR STRAP CLAMP ASSEMBLIES THRU HOLES ON BACK SIDE OF LOWER TRUSS BEAM.

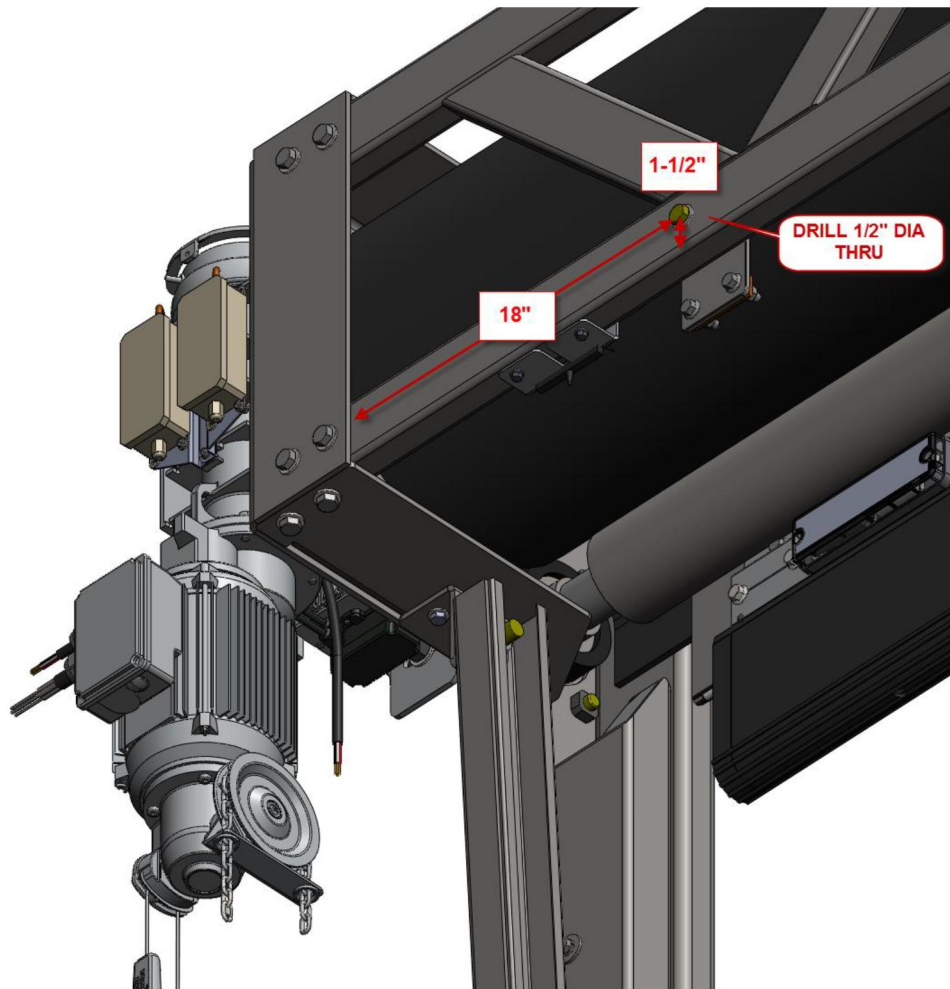


Figure 1: Strap clamp assembly mounting hole location and exploded assembly.

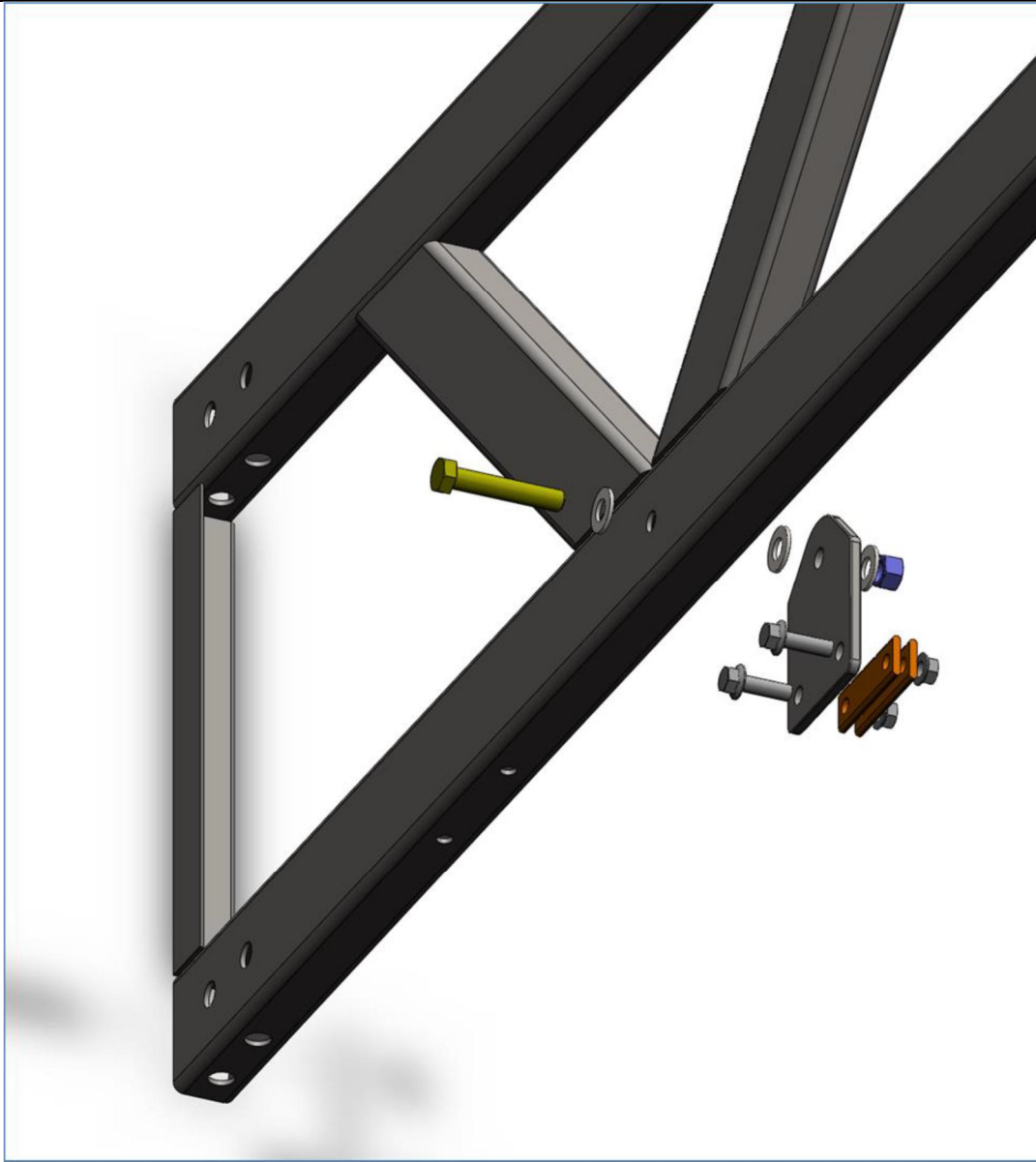


Figure 2: Exploded view of clamp bracket assembly.

DRILL & MOUNT (2) UPPER TRACK MOUNTING BRACKETS & HANG TRACKS (FIG. 3-5):

1. DRILL (2) 3/8" DIA HOLES INTO HEAD ASSEMBLY BOTTOM PLATES ON EACH END.
2. MOUNT UPPER WINDBAR TRACK MOUNTING BRACKETS TO HEAD ASSEMBLY BOTTOM PLATES.
3. HANG WINDBAR TRACKS FROM UPPER MOUNTING BRACKETS - *MAKE CERTAIN THE THICK FACE OF THE TRACK IS FACING AWAY FROM THE DOOR PANEL.*

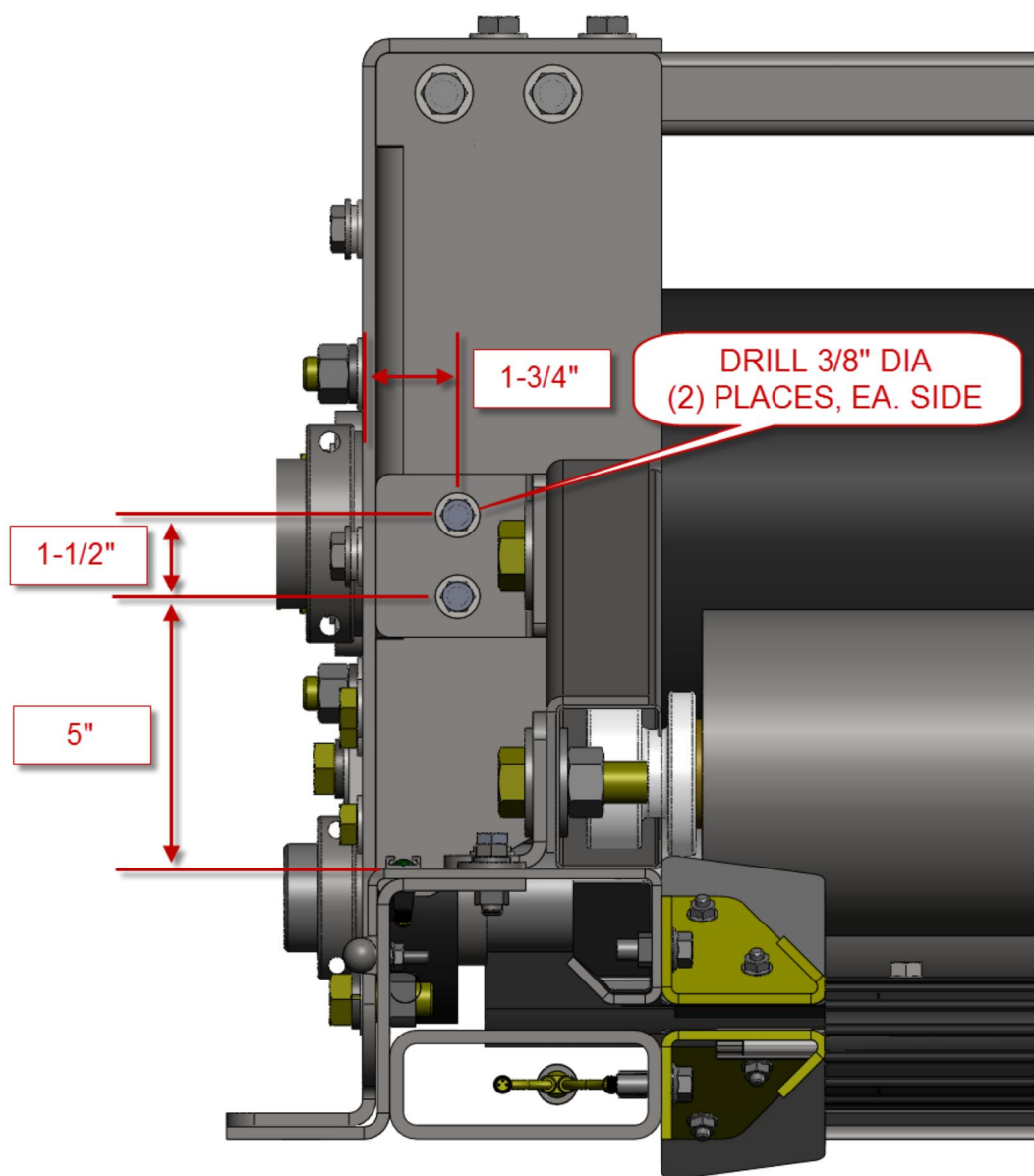


Figure 3: Hole locations for upper track bracket.

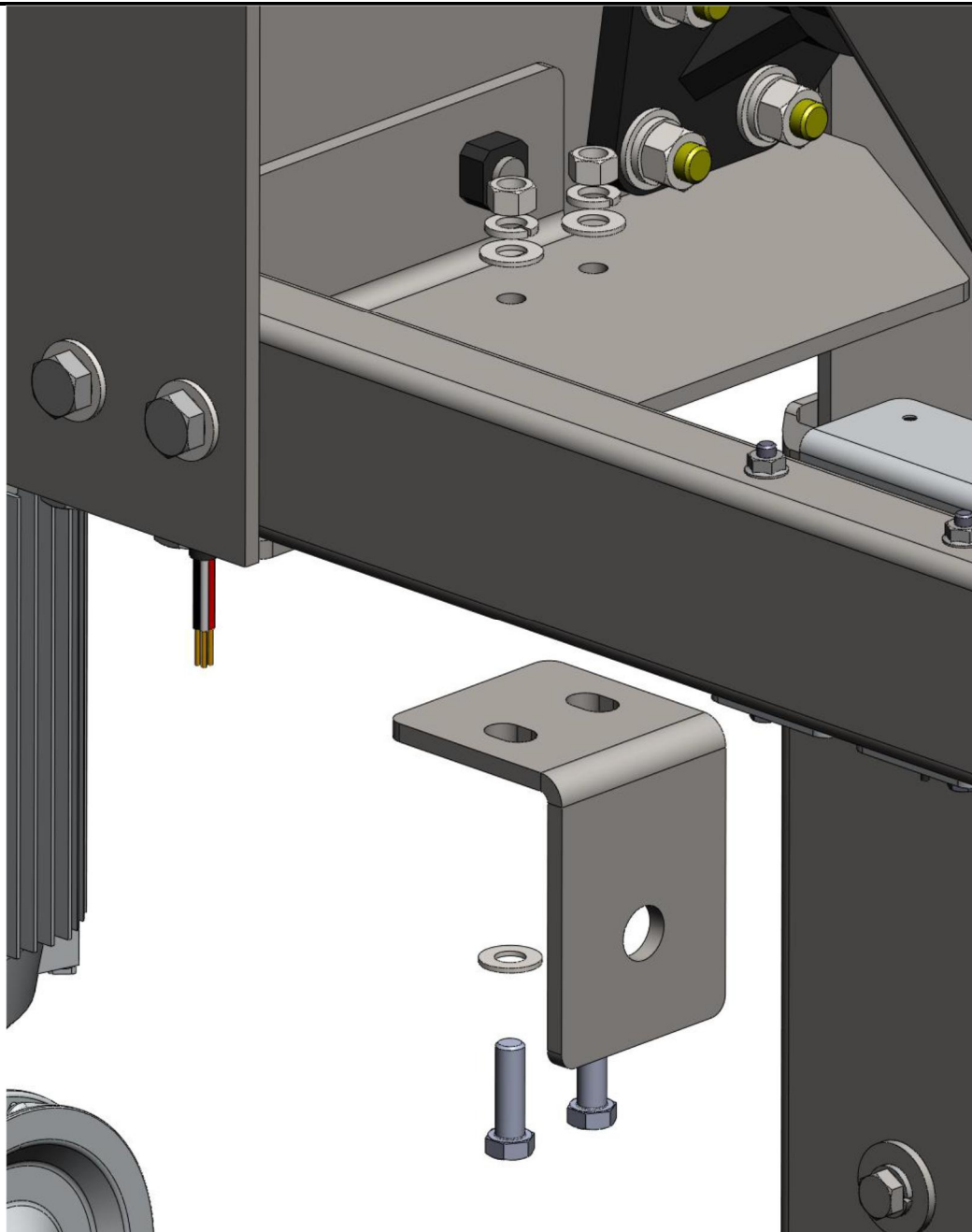


Figure 4: Upper windbar track mounting bracket assembly exploded view.

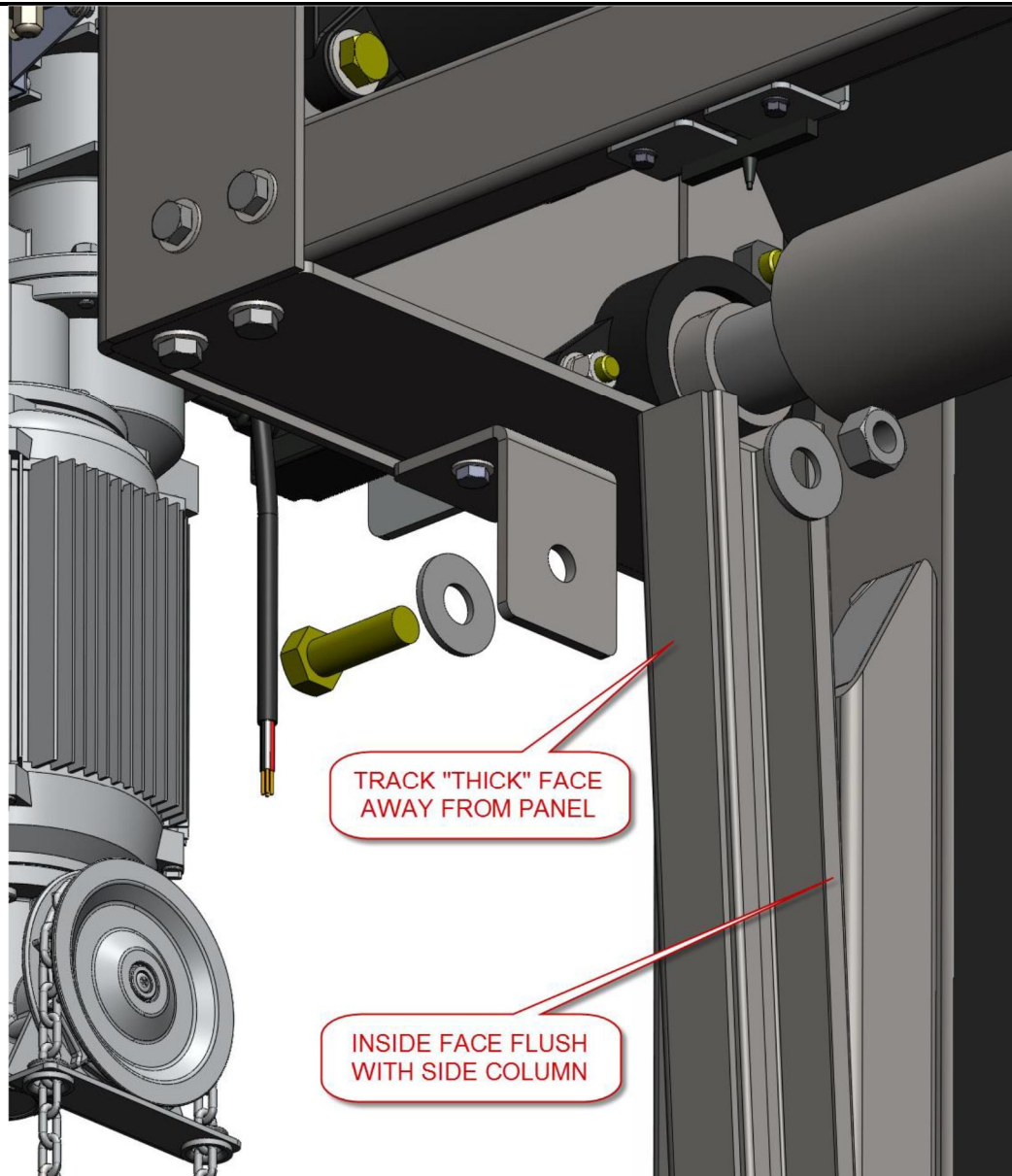


Figure 5: Track assembly with thick face away from panel and inside face flush with side column.

MOUNT LOWER TRACK BRACKETS AND SECURE TRACKS (FIG. 6):

1. REMOVE AND DISCARD SIDE COLUMN COVER SCREWS JUST ABOVE AND BELOW THE BOTTOM END OF WINDBAR TRACKS.
2. MOUNT THE LOWER WINDBAR TRACK BRACKETS TO SIDE COLUMN COVERS *USING THE LONGER 1 1/4" SCREWS* SUPPLIED WITH KIT.
3. PULL WINDBAR TRACKS IN UNTIL THEY TOUCH THE SIDE COLUMN COVERS. MARK CENTER OF TRACK HOLE AND DRILL 3/4" DIA HOLE THRU THE LOWER MOUNTING BRACKETS.

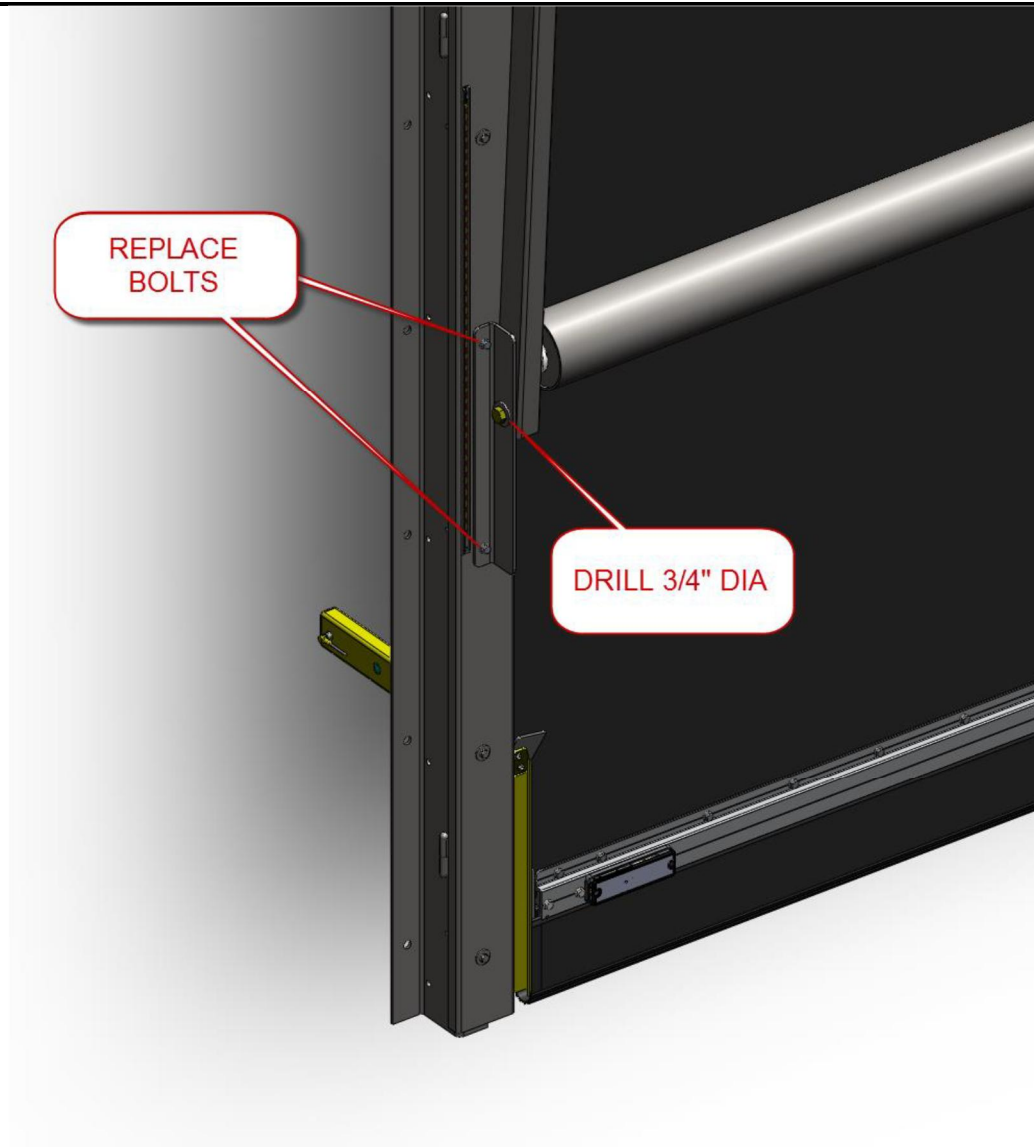


Figure 6: Replace existing side column cover bolts above and below track end. Drill $\frac{3}{4}$ dia. hole.

MARK AND DRILL STRAP CLAMP HOLES INTO DRUM (FIG. 7):

1. PLACE A WINDBAR STRAP CLAMP (0203138) AGAINST THE DRUM, JUST BELOW THE EDGE OF THE DOOR PANEL.
2. CENTER THE STRAP CLAMP 4" FROM THE CENTER OF THE DRUM - IF THE CENTER OF THE CLAMP IS IN-LINE WITH AN EXISTING PANEL MOUNTING SCREW, MOVE THE CLAMP AN ADDITIONAL 4" (8" FROM DRUM CENTER).
3. PLACE A MARK AT THE CENTERS EACH OF THE CLAMP HOLES.
4. DRILL A 0.277" HOLE ("J" SIZE) AT THE CLAMP HOLE CENTER MARKS - *USE ONLY "J" SIZE DRILL BIT (INCLUDED)* AND DRILL THROUGH CENTER AXIS OF THE DRUM TUBE. DO NOT TILT/ANGLE THE DRILL OR OVAL-SHAPE THE HOLES.
5. REPEAT DRILL STEPS FOR THE 2ND STRAP CLAMP, PLACED EQUAL DISTANCE ON OTHER SIDE OF DRUM CENTER.

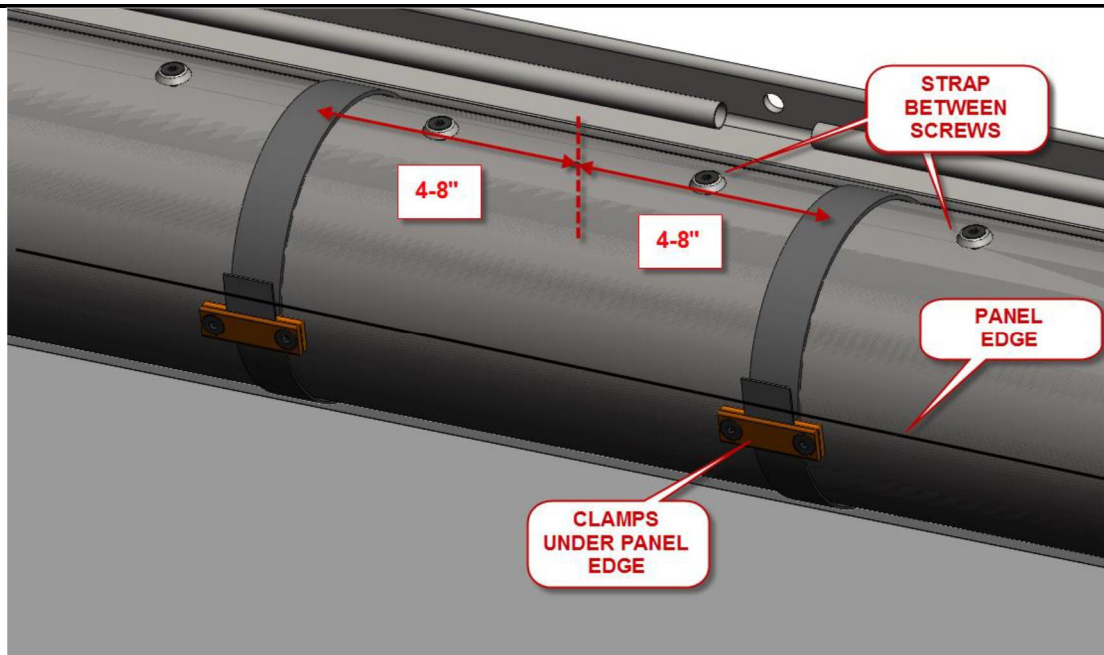


Figure 7: Locate straps approx. 4-8" from drum centerline between closest panel mounting screws.

ATTACH FRONT WINDBAR STRAPS TO THE DRUM (FIG. 8):

1. USE A DRILL AND TORX T40 DRIVER BIT AND DRIVE SCREWS 05550185-0Z01 INTO PREVIOUSLY DRILLED HOLES TO CUT THREADS - DRILL SCREWS INTO HOLES THROUGH CENTER AXIS OF DRUM (DON'T TILT SCREWS).
2. REMOVE SCREWS AND STACK STRAP CLAMPS 0203138 & 1600893-0 OVER MOUNTING HOLES WITH 1600893-0 COUNTERSINK FACING AWAY FROM DRUM.
3. INSERT SCREWS ONCE AGAIN THROUGH CLAMP HOLES - KEEP CLAMPS LOOSE.
4. REMOVE (2) EXISTING PANEL-TO-DRUM MOUNTING SCREWS CLOSEST TO CLAMPS.
5. PLACE A WINDBAR STRAP IN FRONT OF THE DOOR PANEL AND PULL ONE END UP, BETWEEN THE PANEL AND DRUM, UNDERNEATH THE TWO CLAMPS (BETWEEN CLAMP AND DRUM).
6. WRAP THE STRAP ONE FULL WRAP AROUND THE DRUM, PULLING THE STRAP END AGAIN UNDER BOTH CLAMPS.
7. PULL THE STRAP END BACK BETWEEN THE TWO CLAMPS IN THE OPPOSITE DIRECTION.
8. ADJUST THE STRAPS SO THEY ARE NEARLY STRAIGHT.
9. LOCK DOWN STRAP CLAMPS.
10. REPLACE PANEL SCREWS.

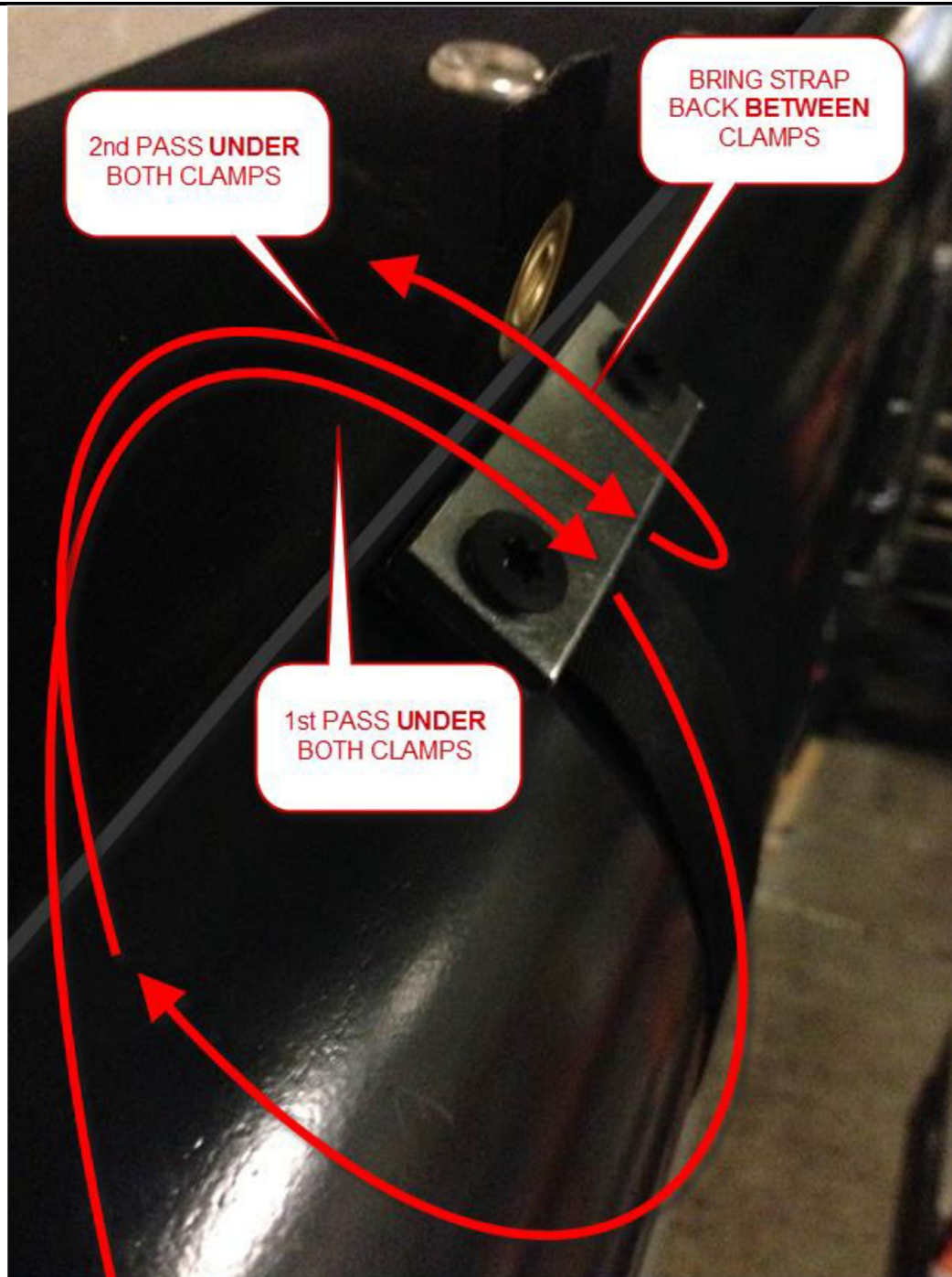


Figure 8: Wrap strap one full wrap around drum under clamps, pull strap back between clamps.

ATTACH FRONT WINDBAR (FIG. 9):

1. INSERT WINDBAR ASSEMBLY INTO THE BOTTOM OF THE WINDBAR TRACK ASSEMBLIES USING FORKLIFT - KEEP FORKS UNDER WINDBAR ASSEMBLY THROUGHOUT THE ENTIRE INSTALLATION PROCESS.
2. PUSH WINDBAR TRACKS BACK TOWARD THE SIDE COLUMN COVERS AND FASTEN THE TRACKS TO THE LOWER MOUNTING BRACKETS USING 3/4" BOLTS - *THREADED PORTION SHOULD EXTEND INWARD, INTO THE TRACKS.*
3. LOOP STRAPS DOWN (BETWEEN THE WINDBAR AND PANEL), UNDER THE WINDBAR, AND BACK UP (IN FRONT OF THE WINDBAR) TO THE STRAP CLAMP ASSEMBLIES MOUNTED TO THE TRUSS.
4. ADJUST THE STRAPS SUCH THAT THE WINDBAR IS LEVEL AND APPROXIMATELY DIM "E" FROM THE FLOOR TO THE WINDBAR CENTERLINE.
5. TIGHTEN CLAMP ASSEMBLY BOLTS.

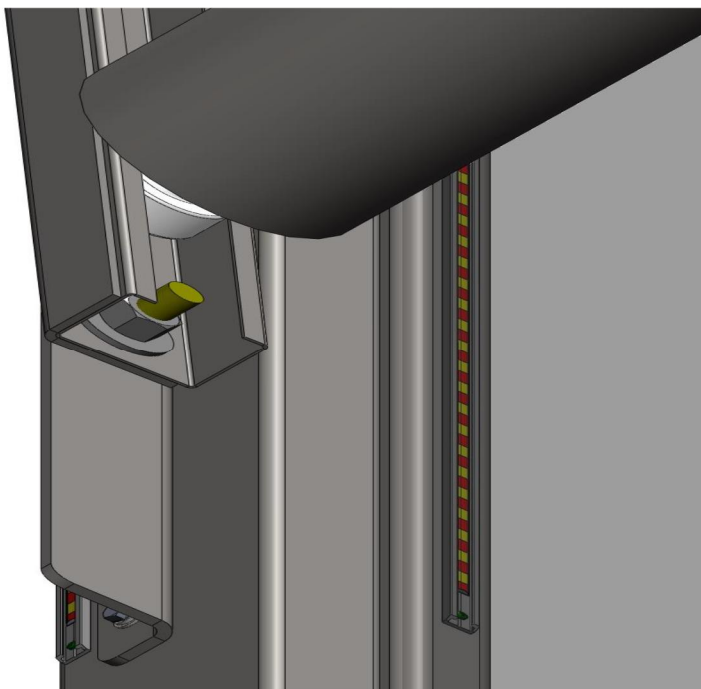


Figure 9: Insert windbar from bottom of tracks and bolt track to bracket with 3/4" bolts - threaded portion inside track.

TEST AND ADJUST WINDBAR ASSEMBLY:

1. REMOVE FORKLIFT AND TURN POWER BACK ON.
2. JOG DOOR OPEN & CHECK THAT WINDBAR IS ABOVE LINTEL AND IN FRONT OF BOTTOM BAR AT DOOR FULL OPEN - PLACE FORKLIFT UNDER WINDBAR AND ADJUST STRAPS AS NEEDED.
3. JOG DOOR DOWN & CHECK THAT WINDBAR IS APPROXIMATELY AT 1/2 X PH.
4. NOTE - IN ORDER FOR WINDBAR TO BE EXACTLY AT DIM "E" AT DOOR CLOSED, IT MAY BE REQUIRED TO HAVE THE WINDBAR HANG SLIGHTLY BELOW THE LINTEL AT DOOR FULL OPEN. MAKE ADJUSTMENTS AS NEEDED.

If you have any questions please contact Rytec Customer Support at 1-800-628-1909.