Smithco 3180 Cab

* Shown with optional components *

* Operator must wear respirator when operating sprayer *

Smithco 3180 Cab

This cab is designed and built to fit the Smithco 3180.

Designed and Built by:
Tektite Manufacturing Inc:
427 Buffalo Street
P.O. Box 639
Winkler, MB
R6W 4A8
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PH: 204-331-3463
Fax: 204-331-4159
sales@tektite.ca
www.tektite.ca

One year standard product warranty provided by Tektite.

DO NOT PROCEED FURTHER UNTIL YOU HAVE READ THE INFORMATION BELOW

1) **Always wear personal protective equipment**
2) **A minimum of two people is necessary to safely install the cab**
3) **<u>This ROPS cab is heavy.</u> A lift assist device such as an overhead hoist or high lift forklift is required.**
4) **Ensure your work area is well ventilated. The installation requires the starting of the tractor which will produce dangerous carbon monoxide fumes.**
5) **Read through the entire installation manual first.**
6) **Follow the installation instructions in order.**
7) **Reading the operators manual prior to using the ROPS cab.**

Tektite Manufacturing Incorporated thanks you for purchasing a Smithco 3180 Cab! Tektite has worked very hard to design and build this product and we hope that it provides you with many years of protection.

Tektite's products are designed to provide safe and dependable service during operation when they are properly maintained according to the instructions. Please read this installation manual carefully before installing and using this product.

The photos/illustrations provided in this manual may not provide all the detail needed, and are for reference only.

All directions provided are from the reference point of the tractor seat facing the steering wheel. All left and right references are from this view point.

For reference, please fill in the information below. This will assist your dealer in providing service for this product. It is advisable that this information be provided to your insurance company as well in the event that the tractor is lost or damaged.

Vehicle Model: _____

Tektite Serial Number: _____

Date of Purchase: _____

Dealer Name: _____

Standard Parts List:

Description	Qty
Roof Rails, Orange (Pre-Installed)	2
Under-seat Shield, Driver	1
Under-seat Shield, Passenger	1
Bolt, Flange, 5/16" x 3/4"	4
Nut, Flange, 5/16"	8
90 degree double bulb Seal, 12 1/4" Long	4
90 degree double bulb Seal, 11 3/4" Long	2
3/4" x 3/4" NDA-X, 13" Long	2
Lower Seat Box Fill Plate	L&R
Self-tap Screws, #10, Macro-black	6
5/16" threaded rod, 7 3/8" long	2
Rear Brackets (Installed onto Cab)	L&R
Front Brackets	L&R
Bolt, Hex, 1/2" x 4 1/2"	2
Bolt, Hex, 1/2" x 3", Gr. 8	6
Nut, Flange, 1/2" YD, Gr. 8	6
Bolt, Hex, 5/8" x 3", YD, Gr. 8	2
Nut, Flange, 5/8", YD, Gr. 8	2
Washer, Flat, 1/4" Thick, YD	2
Floor-mat	1
Zip Ties, Standard	10

Optional Air Conditioner Kit Parts List:

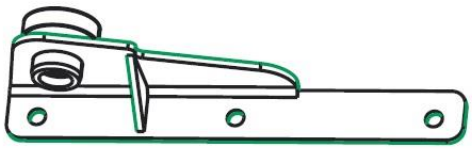
Description	Qty
Compressor Bracket	1
Compressor Stiffener Bracket	1
Alternator Stiffener Bracket	1
Bolt, Hex, 3/8" x 3 1/2"	1
Nut, Flange, 3/8"	5
Solder Shrink-wrap, 1" Piece	8
Wire, 10 GA, Red	12"
Wire, 16 GA, Red	12"
Wire, 16 GA, Red	12"
1/4" Loom	2 FT
Condenser Assembly (fasteners, wire harness pre-installed)	1
Bolt, Flange, 3/8" x 1 1/2"	3
Bolt, Hex, 3/8" x 2"	1
Compressor, **Top Port**	1
Bullet, Female, Blue	1

Alternator Belt (5/16" x 23" V-belt) (25-7228)	1
Replacement Main Drive Belt (13/32" x 42 5/8" V-belt) (25-7420)	1
Full D-Size Print out of Condenser Mount	1

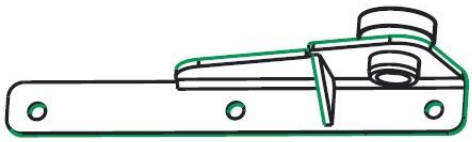
Optional Heater Kit Parts List:

Description	**Qty**
Heater Bypass Assembly	1
HS-6 Hose Clamps	4

Driver
Underseat
Shield



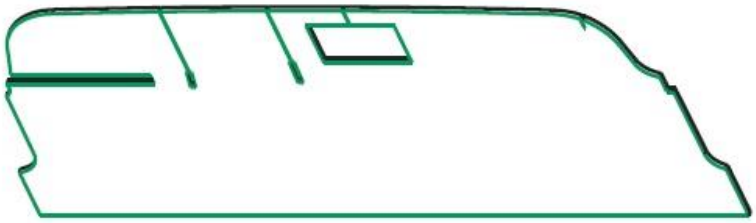
Left Front
Bracket



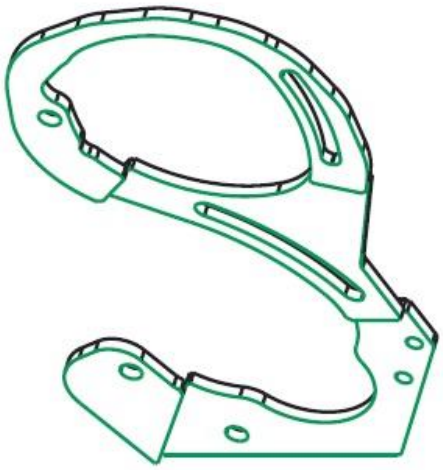
Right Front
Bracket

Passenger
Underseat
Shield

Lower Seat
Box Fill Plates
Left & Right



Main Floormat



Compressor
Bracket

Alternator
Stiffener

Compressor
Stiffener

Heater
By-Pass
Assembly

Before commencing with cab install, park the Smithco 3180 sprayer into a well ventilated area where there is access to a over-head hoist/crane or fork lift access. Once installation begins and vehicles starts to be torn down for installation, the vehicle cannot be moved.

Air Conditioner Installation Instructions:

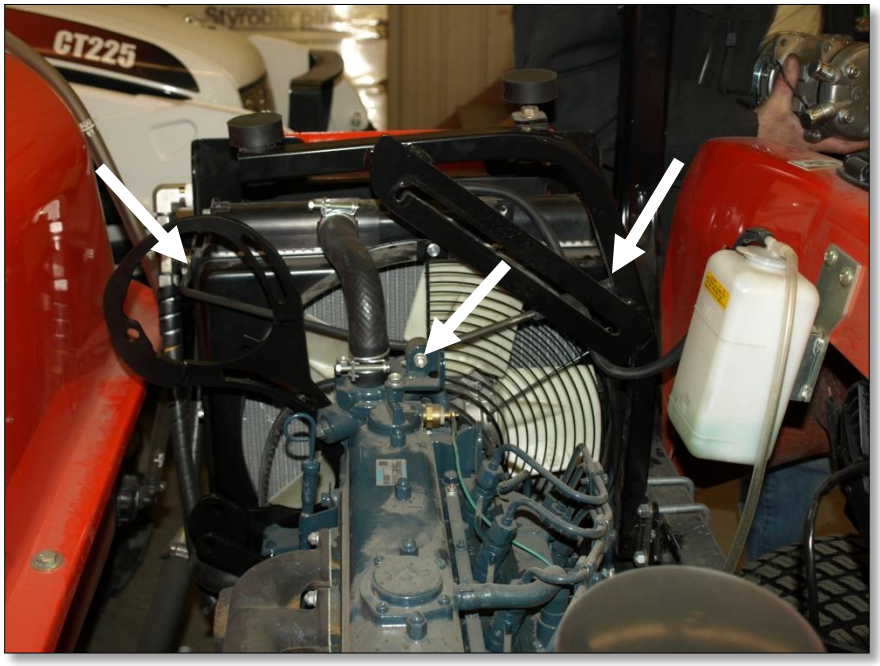
If cab is equipped with air conditioner option, proceed with the following steps first:

1. Disconnect battery.

2. Remove the clip holding the hood prop rod in place and remove.

3. Locate the fasteners at the top of the seat box where the hood hinges are located. Remove hood fasteners and then carefully remove hood. This will provide better access during air conditioner installation.

4. Un-fasten the radiator support bracket, remove 2 fasteners, and loosen centre fastener.

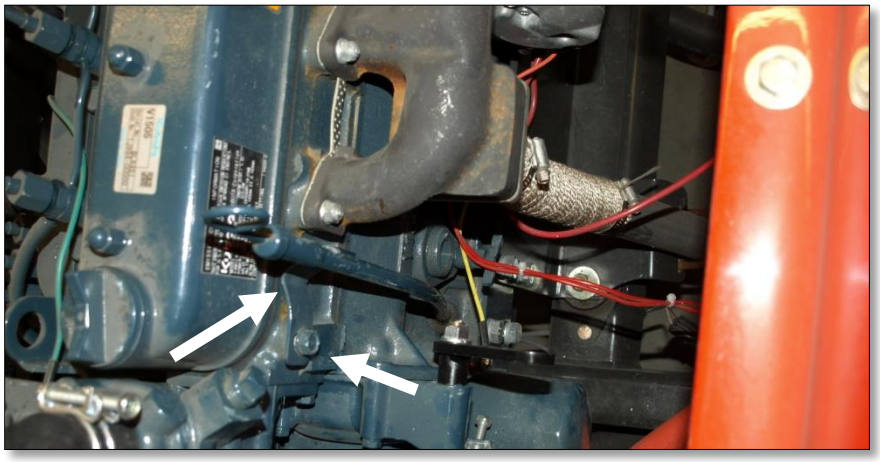


5. Disconnect the alternator harness.

6. Un-bolt and remove the alternator and the alternator tensioner bracket.

7. If the oil dipstick has not been relocated to the opposite side of the engine, it is necessary to modify the dipstick bracket and tube slightly to provide more clearance for the compressor. The bracket must be opened up and pushed against the engine block to provide maximum

clearance. See photo below showing modification. Ensure that the dipstick can be easily removed and checked still.



8. Un-bolt the four fasteners holding the radiator guard into place. Carefully slip the radiator guard out past radiator support bracket and up and out.

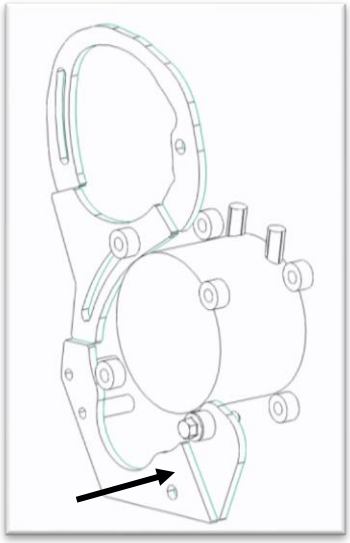
9. Remove main drive belt by slipping belt out and around radiator fan.

10. Slip provided replacement main drive belt around radiator fan and let hang for now.

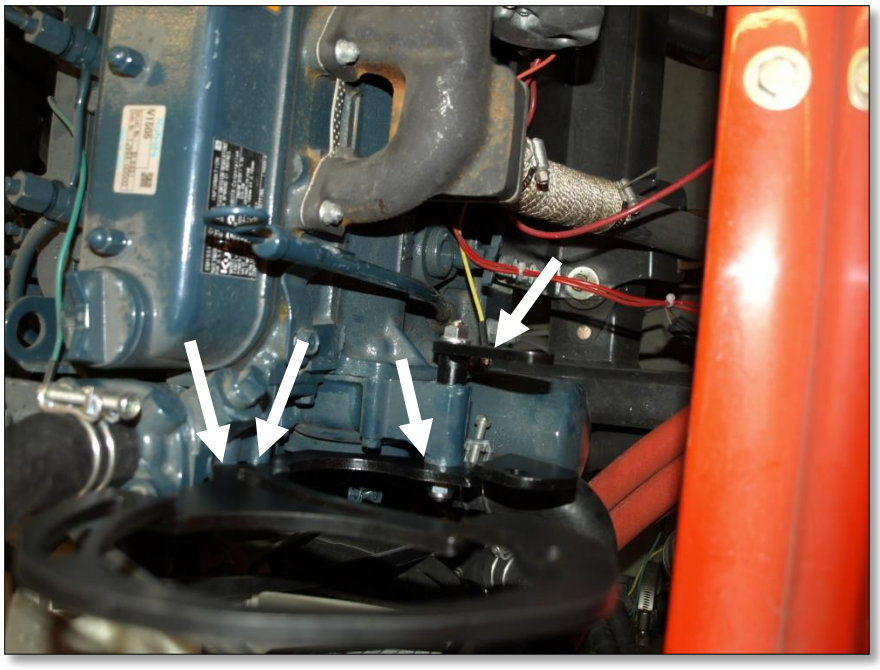
11. Take the radiator guard and modify as follows. The area on the left side must be removed to provide space for the compressor. At second fastener from the left, cut and remove left side of guard.

12. Re-install radiator guard with three fasteners.

13. Take the compressor and carefully slide into position on the middle portion of the bracket (note the 3 distinct planes of the bracket). Use the provided 3/8" x 1 1/2" flange bolt and nut for the front fastener. See CAD photo on following page.



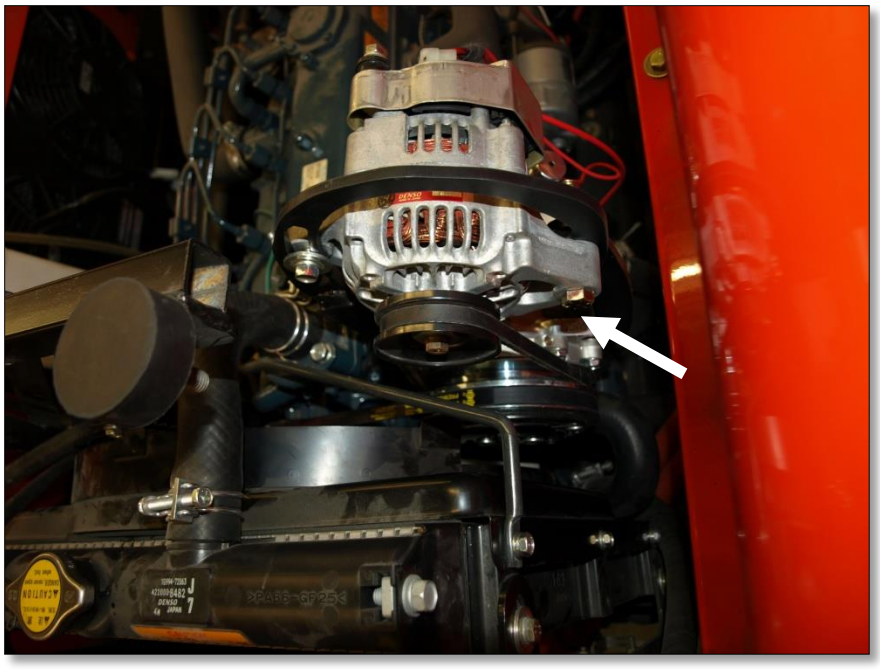
14. Take the compressor bracket, and loosely fasten into place with the alternator bracket tensioner bolts. Take the provided 3/8" x 3 1/2" hex bolt and slide through remaining fastener hole and through hole in engine block. Slide the compressor support bracket onto the back of the bolt with the tube spacer against the engine block. Put nut onto bolt, but do not tighten.



15. Align the compressor support bracket to the rear tab of the compressor and use a second 3/8" x 1 1/2" flange bolt and nut.

16. Slip short alternator drive belt onto compressor back groove. Slip the main new drive belt onto the front groove of the compressor, over the drive shaft, and the fan groove. Apply tension and torque the compressor into place with the provided 3/8" x 1 1/2" flange bolt and nut.

17. Take the alternator and position at the top of the compressor mounting bracket. The alternator pivot bolt, provided 3/8" x 2" hex bolt, needs the alternator stiffener bracket at the back end of the compressor bracket. Slide bolt through alternator, then compressor bracket, then stiffener bracket.

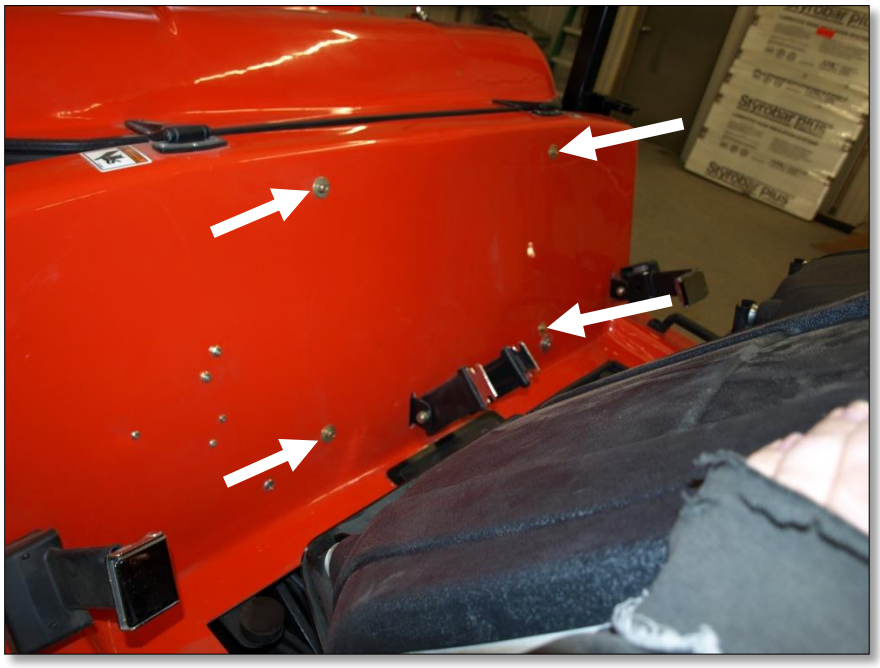


18. Slip alternator drive belt onto the alternator and apply tension to the belt. Use the factory bolt to tension the alternator to the bracket.

19. The alternator harness will need to be extended. Going one wire at a time, cut the 12GA red wire, and solder in provided wire extensions. Use provided shrink-wrap at both ends of solder.

20. Take the provided condenser drill template and cut out the bottom notches. Place this template onto the seat box around the seat belt cut-outs, use those as a guide for location. Mark and drill the four 1/4" holes.

21. From the seat side of the seat box, install 1/4" x 3/4" flange bolt, flat washer, through fibreglass, rubber bushing, flat washer, and into coupler nut. Put all four bolts in.



22. Position condenser assembly with hose ports on right and fasten condenser to coupler nuts with 1/4" x 3/4" flange bolts.

23. Connect the ground wire from the condenser to the fuse block ground located to the right of the condenser.

24. Take the air conditioner hose attached to condenser, ensure o-rings are installed and connect to the compressor. Hose can only be installed on one side.

25. Re-install the hood onto hinges.

26. Re-install hood prop rod connector.

The balance of air conditioner install cannot be completed until after the cab is installed. Please proceed with cab installation.

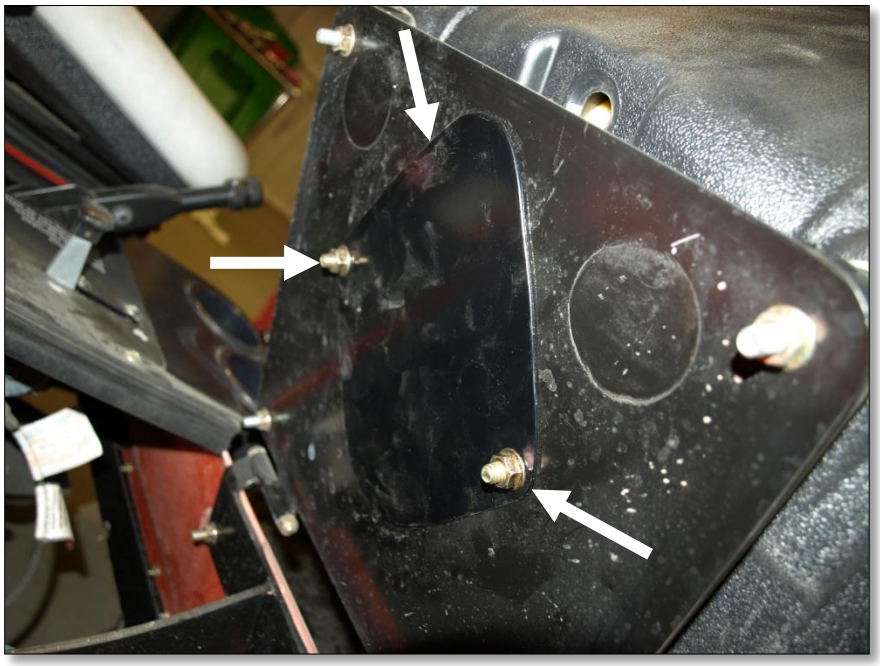
Cab Installation Instructions:

NOTE: If the fibreglass seat box is not centred very well on the sprayer it will need adjustment before the cab can be installed. Loosen retaining fasteners and adjust fibreglass as close to symmetrical as possible.

1. Tilt the passenger seat forward.

2. Take the provided 90 degree bulb seal and install on the left and right side (12 1/4") and rear (11 3/4") of the opening in the fibreglass with the bulb facing up. Take the provided 3/4" x 3/4" NDA-X and install it on the front edge of the fibreglass opening.

3. Take the passenger under seat shield (no extra centre hole in panel), along with two 5/16" x 3/4" flange bolts and nuts and attach to the seat track plate. Note the panel is not symmetric and the slightly longer side goes to the rear of the panel.



4. Tilt passenger seat back down.

5. Disconnect the harness going to the driver seat.

6. Tilt driver seat forward.

7. Take the provided 90 degree bulb seal and install on the left and right side (12 1/4") and rear (11 3/4") of the opening in the fibreglass with the bulb facing up. Take the provided 3/4" x 3/4" NDA-X and install it on the front edge of the fibreglass opening.

8. Take the driver under seat shield (hole in centre of panel), along with two 5/16" x 3/4" flange bolts and nuts and attach to the seat track plate. Then tilt driver seat back down.

9. Remove the 4 bolts that fasten the left 2-post ROPS pad to the chassis.

10. Return to the cab to install lift brackets next. To remove the gas shock on the left cab door, slide a flat screwdriver underneath the small clip on the end cap that must be pulled UP order to pop the shock off of the ball stud. **The shock will release very easily when this is accomplished.** Lift the door assembly straight up and off of the cab and put aside for now. Remove right door as well.

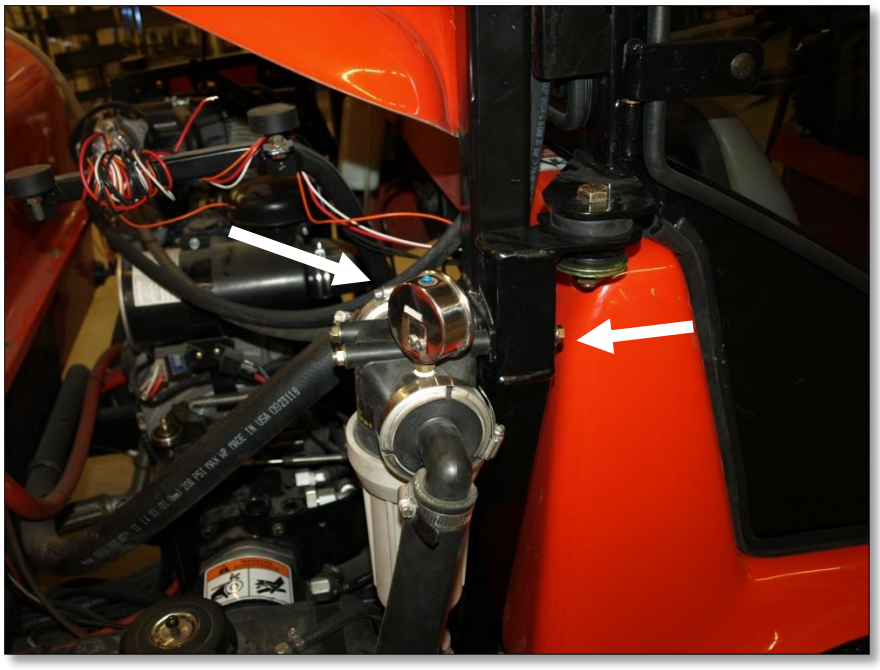
11. Take one of the provided 1/2" x 4 1/2" hex bolts and fasten to the weld nut located at the top of the door opening on the left side. Take the other 1/2" x 4 1/2" hex bolt and fasten to the weld nut on the right door opening.

12. Using a lift strap or chain, route the chain/strap from the lift bolt, underneath the roof runner, and connect to the opposite side, under the roof runner and to the lift bolt. Attach to an over-head hoist or fork lift and prepare to lift the cab off of the shipping pallet.

13. Un-bolt the cab from the shipping pallet and lift the cab up off of the shipping pallet a couple inches for now.

14. Un-bolt the left and right rear cab brackets from the cab.

15. Remove the in-line spray filter attached to the right 2-post ROPS tab.



16. Remove the 4 bolts that fasten the right 2-post ROPS pad to the chassis and the inline fuel filter bracket.

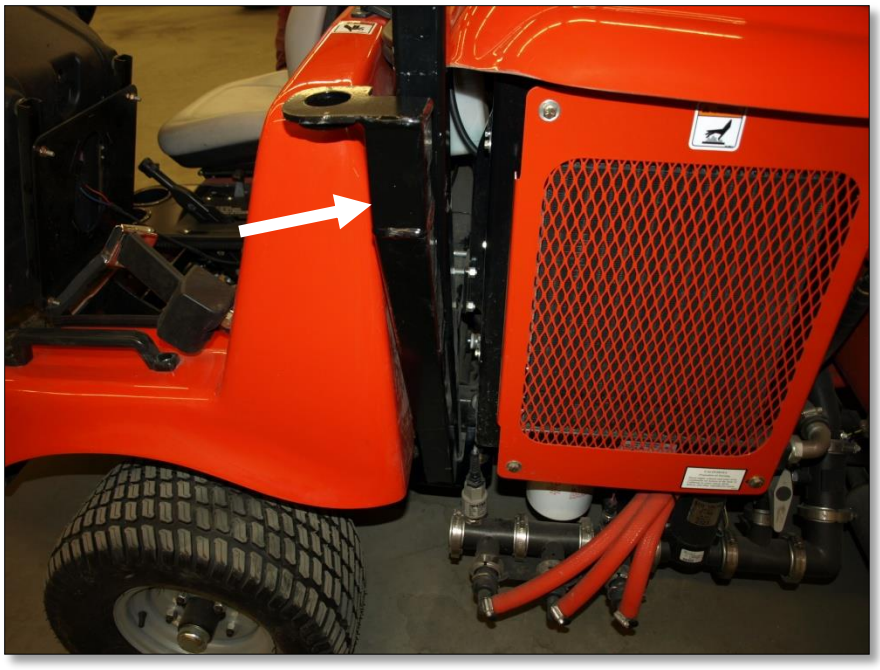
17. Take the right rear cab bracket and carefully slide it into position between the inline fuel filter bracket and the 2-post ROPS mount plate. Re-use the factory fasteners and loosely attach the bracket.

18. Position the bracket so that the holes in the tab on the 2-post will go through the tube of the rear bracket, then clamp ROPS bracket.

19. Drill two 5/16" holes through the vertical tube of the rear cab bracket that will go through the holes in the tab that was positioned in the previous step.

20. Take the provided 5/16" threaded rod and nuts and attach the in-line spray filter to the tab and then to the rear bracket. Apply full torque to RIGHT REAR BRACKET only, 102 ft-lbs.

21. Take the left rear cab bracket and carefully slide it into position over the 2-post ROPS mount plate. Re-use the factory fasteners and loosely attach the bracket. Do not torque these fasteners yet.



22. Take the two lower seat box fill plates and all of the self tap screws provided. Position the fill plates so that the notches fit underneath the cup holders. The fill plates must be right on the foot platform. Screw into place with the provided self-tapping screws.

24. Take the left front bracket, 5/8" x 3" hex bolt, heavy 1/4" flat washer, and flange nut and loosely fasten bracket onto cab. Holes for mounting bracket onto chassis will need to be drilled after cab is installed.

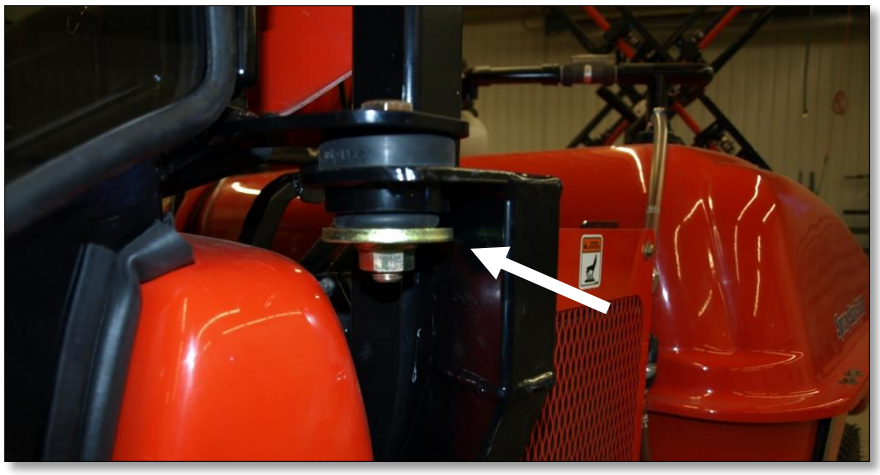
25. Take the right front bracket, 5/8" x 3" hex bolt, heavy 1/4" flat washer, and flange nut and loosely fasten bracket onto cab. Holes for mounting bracket onto chassis will need to be drilled after cab is installed.

26. NOTE: If sprayer is equipped with a GPS controller, the GPS antenna must be moved outside of the cab. Pull GPS antenna and harness out as far as possible from controller.

27. Disconnect wire harness from antenna and route the antenna wire down underneath the machine front platform and towards the rear.

28. GPS antenna will eventually be mounted onto the orange roof bubble on the cab. Route wire towards left 2-post ROPS mount and leave cable for now until cab is installed.

29. Lift the cab straight over the seat platform and slowly lower down onto the machine. Take care to ensure that the front brackets clear the chassis as the cab is slowly lowered into place. The rear bracket fasteners are a 5/8" x 3" hex bolt, heavy 1/4" flat washer, and flange nut. Fasten the rear brackets and isolator fasteners into place. Note alignment shown below.



30. Ensure the front of the cab is down all the way and the hood shield has a good seal. Then using the left front bracket as a guide, mark and drill three 1/2" holes through the holes in the bracket. Use the provided 1/2" x 3" hex bolts and flange nuts and fasten bracket to chassis.

31. Use the right front bracket as a guide, and mark and drill three 1/2" holes through the holes in the bracket. Use the provided 1/2" x 3" hex bolts and flange nuts and fasten bracket to chassis.

32. Once all brackets are started, final torque can be applied to all fasteners. The 5/8" fasteners 240 ft-lbs, the 1/2" fasteners 102 ft-lbs.

33. Remove the chain or lift strap from the lift bolts.

34. Remove the lift bolts, store for later use in case cab needs to be removed.

35. Route the electrical harness under the hood.

36. Connect the heavy black 10 GA wire to negative terminal on fuse blocks on the back of the seat platform with the installed female insulated connector.

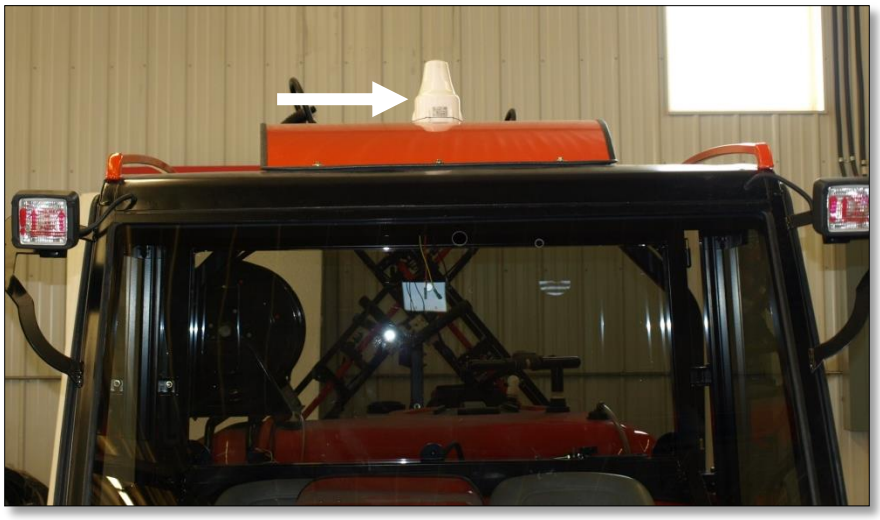
37. Connect the heavy red 10 GA wire to positive terminal on battery with 1/4" loop pre-installed.

38. Connect the orange 16 GA wire to a key-switch activated 12 V source on the alternator as shown, use test light to verify. Solder the wire directly to the source.

39. Take the cab floor-mat and place it onto operator platform. Tuck floor-mat around pedals and wire ducting conduit. Notch floor-mat if necessary, to ensure full range of pedal travel.

If equipped with GPS proceed with step 40.

40. Take the GPS wire harness and route up the left side of the cab towards the orange roof cap. Re-connect the harness to the antenna and place the antenna directly on top of the cab.

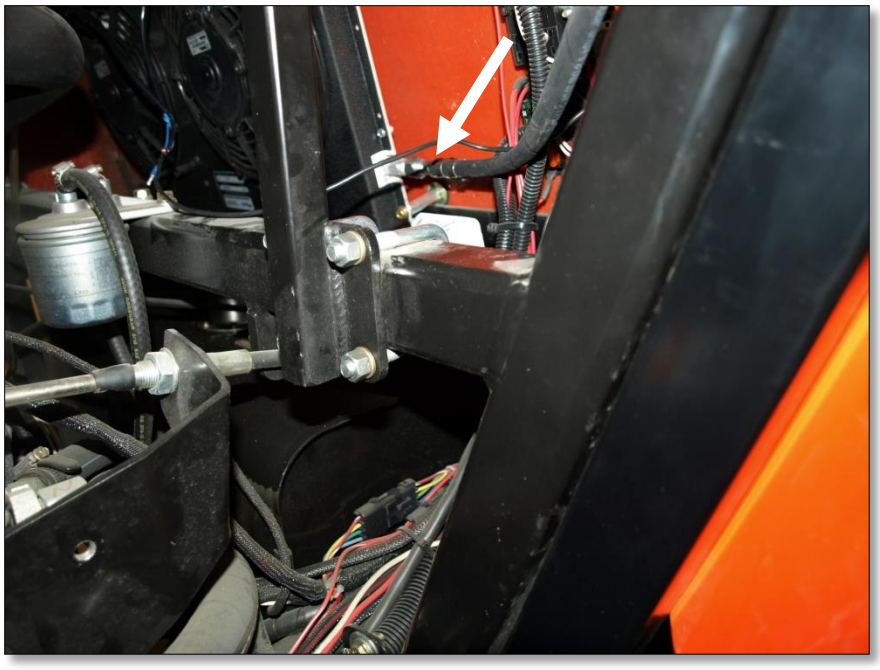


Next stage of air conditioner installation can now be completed.

27. Route the hoses from the cab into the engine bay.

28. Connect the hose with the fill port to the compressor. Ensure o-ring is installed.

29. Connect the remaining hose to the condenser. Ensure o-ring is installed.



30. Route the white wire to the compressor. Zip tie wire so that it is securely fastened. Shorten wire if necessary. Install bullet connector onto wire and then connect wire to the bullet connector on the compressor.

31. Ensure the fittings are all tight.

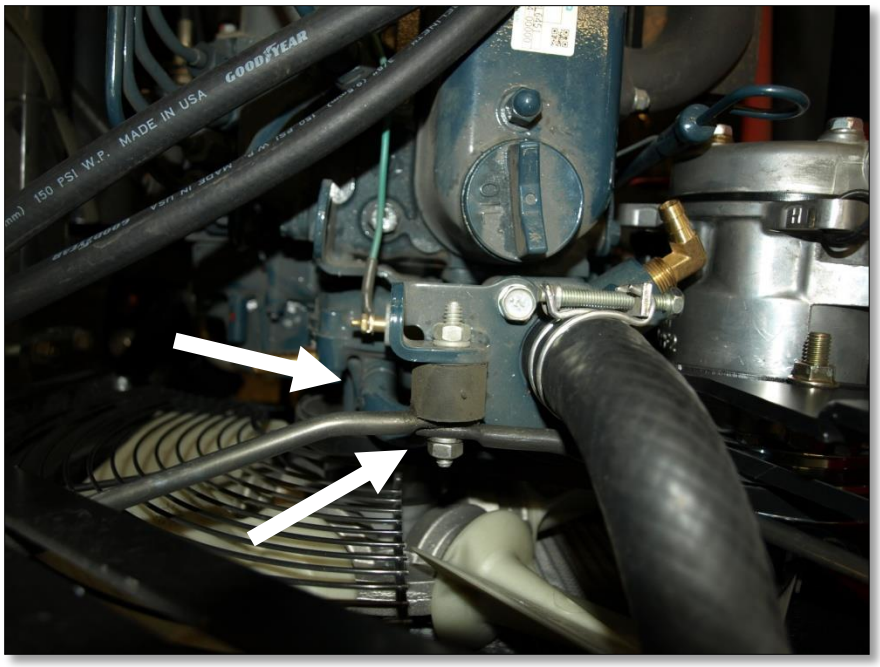
32. Route the condenser power wire to the condenser and connect wires together.

33. Use provide 1/4" wire loom to tidy up remaining unharnessed condenser wires.

Heater Installation can now be completed:

1. Drain the engine coolant.

2. Locate the engine bypass hose and remove.

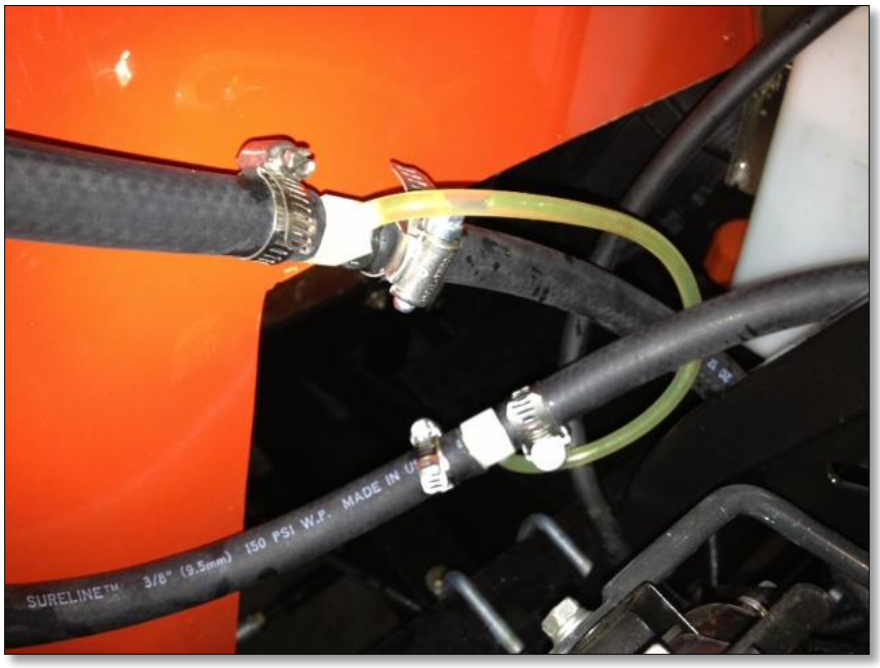


3. Take the provided heater bypass assembly and connect each end of the bypass assembly to the open ports on the engine. The **pressure** port will be the one on the thermostat housing, the **suction** port will be the one on the water pump housing. Use the provided HS-6 hose clamps to secure to the ports.

4. Route the hoses from the cab into the engine bay.

5. The **driver side** heater hose is the PRESSURE hose. Note which hose that is and connect to the pressure side fitting on the bypass assembly, the port at the thermostat housing. Use provided HS-6 hose clamp.

6. The **passenger side** heater hose is the SUCTION hose. Route this hose to the suction side fitting on the bypass assembly, on the water pump housing. Use provided HS-6 hose clamp.



7. Once all fittings are tightened, engine coolant can be re-filled.

8. Turn the fan to the high position, open water valve control in cab fully and start engine.

9. Run engine at high speed to increase the coolant temperature and force thermostat to open and start to remove airlocks that are in the coolant lines. This may take a few minutes, air coming out of vents in the cab should be very hot. To ensure heater is bleeding out air as fast as possible, consider putting a funnel into radiator cap area and fill funnel with coolant. When the thermostat opens, it will suck the coolant into the system.

Air Conditioner is ready to be charged. Please note: At this stage, the air conditioning system is ready for pressurization. A licensed air conditioner installer must perform this install. The air conditioning system is designed to use two lbs of R134a coolant. The compressor is pre-filled with oil.

Smithco 3180 Cab

* Shown with optional Features *

* Operator must wear respirator when operating sprayer *

Smithco 3180 ROPS Cab
This ROPS is designed and built to fit the Smithco 3180.
Designed and Built by:
Tektite Manufacturing Inc:
427 Buffalo Street
P.O. Box 639
Winkler, MB
R6W 4A8
Canada
PH: 204-331-3463
Fax: 204-331-4159
sales@tektite.ca
www.tektite.ca

One year standard product warranty provided by Tektite.

Tektite Manufacturing Incorporated thanks you for purchasing a Smithco 3180 ROPS Cab! Tektite has worked very hard to design and build this ROPS product and we hope that it provides you with many years of ROPS protection.

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The photos/illustrations provided in this manual may not provide all the detail needed, and are for reference only.

All directions provided are from the reference point of the tractor seat facing the steering wheel. All left and right references are from this view point.

For reference, please fill in the information below. This will assist your dealer in providing service for this ROPS. It is advisable that this information be provided to your insurance company as well in the event that the tractor is lost or damaged.

NOTE: Operator must wear full respirator when using spray vehicle.

Vehicle Model: _____

ROPS Serial Number: _____

Date of Purchase: _____

Dealer Name: _____

Tektite Limited Warranty

Tektite Manufacturing Inc. ("Tektite") warrants to the original purchaser (the "Claimant"), that Tektite products will be free from defective materials or workmanship, under normal use and service, for a period of (1) full year from the original invoice date. Tektite's liability under this Limited Warranty is limited to the repair or (at the discretion of Tektite) the replacement of those components of its products, which were manufactured by Tektite that are defective in materials or workmanship. Tektite shall have no liability under this Limited Warranty unless Tektite is notified of the defect during the stated Warranty Period.

Limitations and Exclusions: Tektite has no responsibility to a Claimant under this Limited Warranty or on any other basis for any of the following:

a) defects caused, in whole or in part, by accident or misuse, negligence or failure to maintain the product or component;
b) products or components sold to a customer on an "as is" basis;
c) wiper blades, light bulbs, fuses, clear vinyl or other consumables;
d) glass where the point of failure has not been preserved intact and delivered to Tektite for analysis of the cause of the failure;
e) products or components which have been modified after shipping from Tektite to its customer;
f) transportation charges for returned, repaired or replacement items;
g) defects that are subject of a Tektite initiated recall where the Claimant fails to comply with the terms of the recall notice that comes to the attention of the Claimant;
h) components of Tektite products that are manufactured by third parties (Tektite's only obligation in relation to such components shall be to accord to the Claimant the benefit of any transferable warranty accorded to Tektite by third party manufacturer);
i) defects in workmanship or materials in products or components that are repaired or replaced by Tektite unless Tektite is notified of the new defect within the Warranty Period that applied to the original product or component that has been repaired or replaced;
j) defects that result, in whole or in part, from inadequate engineering or specifications provided to Tektite by its customer;
k) any actual or alleged deficiency in technical or engineering services or advice provided by Tektite to its customer whether provided for valuable consideration or otherwise;
l) consequential damages, or any other damages whether foreseeable or not, resulting from the defect or any delay in remedying the defect;
m) any breach or alleged breach of any implied warranty of merchantability or fitness for particular purpose of use;
n) defects or part failure due to misuse or failure to follow recommended cab installation procedures; and
o) travel expenses, including mileage.

This Limited Warranty expresses the entire obligation of Tektite, its officers, directors, agents and employees, to its customer or any Claimant in respect of any defect in workmanship, or materials of any product or component sold or manufactured by Tektite whether on grounds of breach of contract, negligence or other tortuous liability, breach of express or implied warranty or other basis in law of any jurisdiction.

Acceptance by a customer of delivery of products of Tektite constitutes acceptance of this Limited Warranty in lieu of all other warranties express or implied including without limitation all implied warranties of merchantability or fitness for particular purpose or use and constitutes acceptance by customer of the exclusions and limitations of the liability of Tektite set out above. Once received, the cab should have ALL exterior cardboard, Styrofoam wrapping removed for immediate inspection of product to ensure that no damages have occurred during transportation. Outer coverings should stay off the cab and the cab be stored indoors in a controlled environment. The warranty card must be completed and returned to Tektite.

Warranty claims should be reported to parts@tektite.ca. A warranty claim form and instructions will be provided at this time. Warranty work not pre-authorized by Tektite may not be covered by this warranty agreement. Labor rate and time allowances are fixed by Tektite. Approved warranty claims will be issued in the form of credits applied to customer account.

Safety Precautions

Safety First

Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to assemble or use the features that are on this cab/ROPS.

Danger: Operator must wear full respirator while operating the sprayer.

Danger: Indicates an immediate hazardous situation which, if not avoided, will result in death or serious injury.

Warning: Indicates a potentially hazardous situation which, if not avoided, may result in death or serious injury.

Caution: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

Important: Indicates that cab or property damage may result if instructions are not carefully followed.

NOTE: All products are designed to give safe, dependable service if they are operated and maintained according to instructions. It is the owner's responsibility to be certain anyone operating this product reads this manual, and all other applicable manuals, to become familiar with this cab and all safety precautions. Failure to do so could result in serious personal injury or cab damage. If you have any questions, consult your dealer. Read and understand this manual before operation.

NOTE: A safe operator is the best assurance against accidents. All operators, no matter how experienced they may be, should read this operator manual and all other related manuals before attempting to operate features in this cab/ROPS and operate the base tractor. Please read the following section and pay particular attention to all safety recommendations contained in this manual and those labelled on the cab and on the tractor.

General Safety

1. Never let an unqualified or untrained driver operate the spray vehicle.
2. Keep a fire extinguisher, with ABC rating securely fastened in the ROPS. Maintain it and be familiar with its use.
3. Do not carry passengers.
4. Never operate the spray vehicle in a closed building for a prolonged period. Ensure adequate ventilation is present, as engine exhaust fumes are poisonous and can kill.
5. Always keep sleeves, jackets or other loose clothing relatively tight and belted. Loose clothing may catch on moving parts and result in severe personal injury or death.
6. Provide a first-aid kit, securely attached inside of the ROPS for use in case of accident.
7. Never jump from the spray vehicle. There is a danger of tripping or falling on protruding parts.
8. Use steps and hand holds when mounting and dismounting the spray vehicle, or for servicing components too high to reach from the ground.
9. When seated in the ROPS, fasten seat belt before starting the engine. A proper seat belt must be worn at all times when using a ROPS.
10. Safety devices and shields are intended to protect operators from injury or death. Under no circumstances should they be modified, disabled or removed.
11. Charcoal filter should be replaced once per season.
12. When operating spray vehicle, operator must wear respirator with cab.

Operating Safety

1. Always operate the spray vehicle controls while sitting in the operator's seat.
2. Lock seat in position and buckle seat belt before operating the spray vehicle.
3. Avoid abrupt sharp turns at high speeds.
4. On sloped terrain, do not make sharp turns as machine stability could be compromised.
5. Operate the spray vehicle smoothly, avoid abrupt starts and stops.
6. Keep all shields in place when operating the spray vehicle.
7. Do not operate the spray vehicle when you are tired, sick, or impaired.
8. Never operate the spray vehicle in confined areas; visibility next to the tractor is reduced. Injury to bystanders or damage to the ROPS or equipment may result.

Safety

Carefully review the procedures given in this manual and the spray vehicle operator's manual with all operators annually. It is important that all operators become familiar with and follow safety precautions. Operating instructions must be given to everyone using the tractor before operation and at least once yearly thereafter in compliance with OSHA Regulations 1928.57 (United States).

Safe Operation on Rough Terrain

1. Drive the spray vehicle slowly on hillsides and curves to eliminate the danger of tipping. Avoid slopes which are too steep for safe operation. Avoid sharp uphill turns.
2. Always drive slowly enough over rough ground or obstructions. Drive at speeds slows enough to ensure your safety.
3. When driving out of a ditch, gully, or up a steep hillside, engage the clutch slowly. Avoid sharp uphill turns.
4. When descending steep grades, select a sufficiently low gear to maintain control with minimum use of braking.
5. Use caution when driving near the edge of a ditch or gully. It may cave in, causing the spray vehicle to roll over.
6. Be alert when operating near trees, slopes and around obstructions. Tree branches can cause damage to ROPS components.

Maintenance Safety

1. Remove mud, crop residue, chains, and tools from steps and operator's platform. They may interfere with pedal operation or entry/exit from spray vehicle.
2. When servicing components are too high to reach from the ground use steps and handholds. Do not use fenders or shields that are not designed as steps.

Safe Highway Operation

1. Before operating the spray vehicle on, or near, public roadways check with your local authorities for any local regulations that will affect you.
2. Equip towed implements with slow moving vehicle (SMV) signs when traveling on public roads.
3. Install additional lights on implement rear to safeguard against rear end collisions.
4. Use hazard warning flashers as required by law when transporting or driving on public roads. If the spray vehicle had warning flashers removed when mounting the ROPS, they must be replaced prior to operation on public roads.
5. Keep to the right, yielding right-of-way traffic, especially if pulling implements. Pull off the road and stop to allow motorists to pass. Drive on the road shoulder, if permitted by law.
6. Use extreme caution when pulling heavy loads at road speeds. Avoid hard application of the spray vehicle brakes at high speed.
7. Always drive slowly near curbs, approaches or ditches.
8. If equipped, ensure headlights are aligned so they will not blind the operator's of oncoming vehicles. If the spray vehicle is not equipped with turn signals and law requires them, install them prior to operating on or near public roads.

9. Use your turn signals, checking for traffic well in advance of turning**.** If the spray vehicle is not equipped with turn signals and law requires them, install them prior to operating on or near public roads.

Safety Decals

1. Keep decals clean. Remove dirt with a wet clean cloth when necessary.
2. Replace safety decals if destroyed, missing, painted over or unreadable. If any safety decals are covered or obscured when the ROPS is mounted, it is recommended that you purchase replacement decals from the spray vehicle manufacturer. Mount them in a readable location at, or near, their original location before operating the spray vehicle.
3. New ROPS decals and spray vehicle decals are available from your spray vehicle dealer.

ROPS Safety

1. Install the ROPS in accordance with Tektite mounting instructions. Failure to do so may affect the ROPS ability to withstand a roll over.
2. If the ROPS is subjected to alteration, structural damage or involved in an over turn accident, the entire structure must be replaced. Failure to do so may result in injury or death in the event of a roll over.
3. If the spray vehicle in not equipped with seat belts, purchase approved seat belts from the spray vehicle manufacturer or Tektite prior to operating the spray vehicle.
4. Always fasten seat belts prior to operating the spray vehicle.
5. Always operate the spray vehicle from the operator's seat.
6. Remove mud, crop residue, chains and tools from steps and operator's platform. They may interfere with pedal operation or entry/exit from the spray vehicle.
7. Remove all loose chains, tools, and equipment from the operator's platform. Failure to do so may cause injury or death in the event of a roll over.
8. Do not install the ROPS on a spray vehicle model that the ROPS is not designated for (compatible spray vehicle designations are printed on the ROPS serial number plate). The ROPS is designed specifically for individual models to ensure ROPS requirements will be met. Installing the ROPS on a non designated spray vehicle may result in injury or death.

Emergency Exits

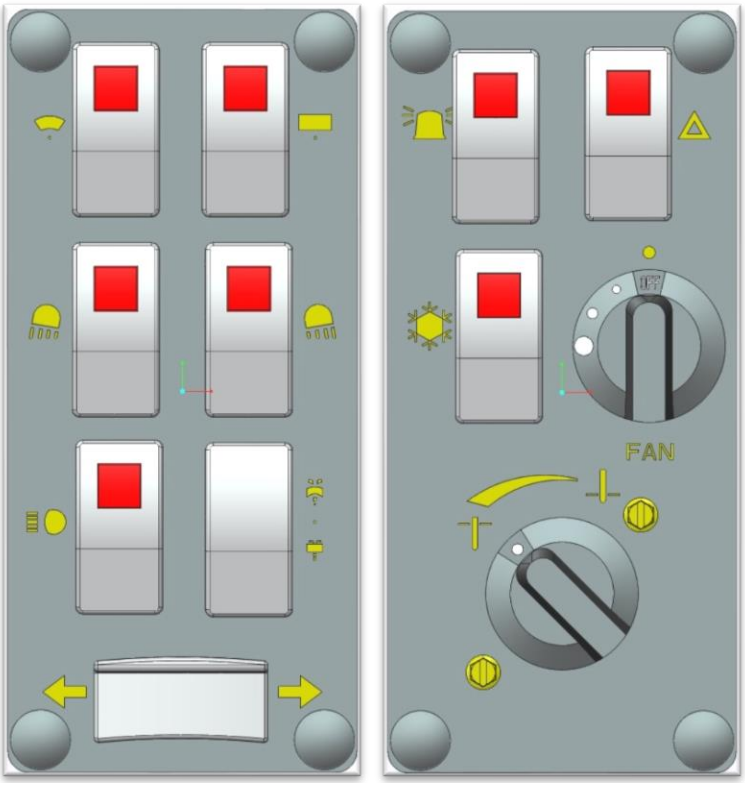
This ROPS has 2 exits, which may be used in an emergency: left and right doors.

Operating Instructions

Important

The following section locates, identifies and briefly describes the functions of all cab controls. All operators should familiarize themselves with control location and function prior to operating the utility vehicle. Failure to do so may result in unsafe operation of the utility vehicle and possible injury or death to operators and bystanders.

There are two switch plates located in the headliner. The following switches are available and their functionality is described.



Left Switch Plate

1. **Front Wiper Rocker Switch (standard)**
Low position: Off
High position: On
Note: indicator light activates when wiper is on.

2. **Rear Wiper Rocker Switch (optional)**
Low position: Off

High position: On
Note: indicator light activates when wiper is on.

3. **Front Work Light Rocker Switch (optional)**
Low position: Off
High position: On
Note: indicator light activates when work lights are on.

4. **Rear Work Light Rocker Switch (optional)**
Low position: Off
High position: On
Note: indicator light activates when work light is on.

5. **Head Lights Rocker Switch (optional)**
Low position: Off
High position: On
Note: indicator light activates when head lights are on.

6. **Front and Rear Washer Rocker Switch (optional)**
Low position: Momentary – On Rear Washer
Middle position: Off
High position: Momentary – On Front Washer

7. **Turn Signal Rocker Switch (optional)**
Left position: On
Middle position: Off
Right position: On

Right Switch Plate

1. **Beacon Rocker Switch (standard)**
Low position: Off
High position: On
Note: indicator light activates when beacon is on.

2. **Hazard Rocker Switch (optional)**
Low position: Off
High position: On
Note: indicator light activates when 4-way flashers are on.

3. **Air Conditioner Rocker Switch (optional)**
Low position: Off
High position: On
Note: indicator light activates when air conditioner is on.

4. **Fan Rotary Switch (optional)**
Indicator mark above switch indicates whether fan is operational or not.

5. **Temperature Control Rotary Switch (optional)**
Indicator mark at lower left corner indicates current temperature setting. Rotate to increase heat output or to decrease heat output of heating system. When air conditioner is being used, it is recommended that the switch be at maximum cooling position.

Cab Circuit Protection

The Tektite ROPS cab is wired to provide maximum protection against accidental battery rundown and circuit overload. A relay in the cab is ignition activated and prevents the operator from accidentally leaving fan motors, lights on after turning the tractor off and leaving for the day. A circuit breaker is provided to prevent the cab electrical components from drawing more power than they should be able to from a dead short. The cab electrical components are also fused individually, and the fuse block is located in the headliner, above the passenger seat on the right side. Locate access door labelled Fuses, and open for access to examine the fuses. A decal on the fuse block indicates which fuse is for which electrical option.

After your ROPS has been installed:

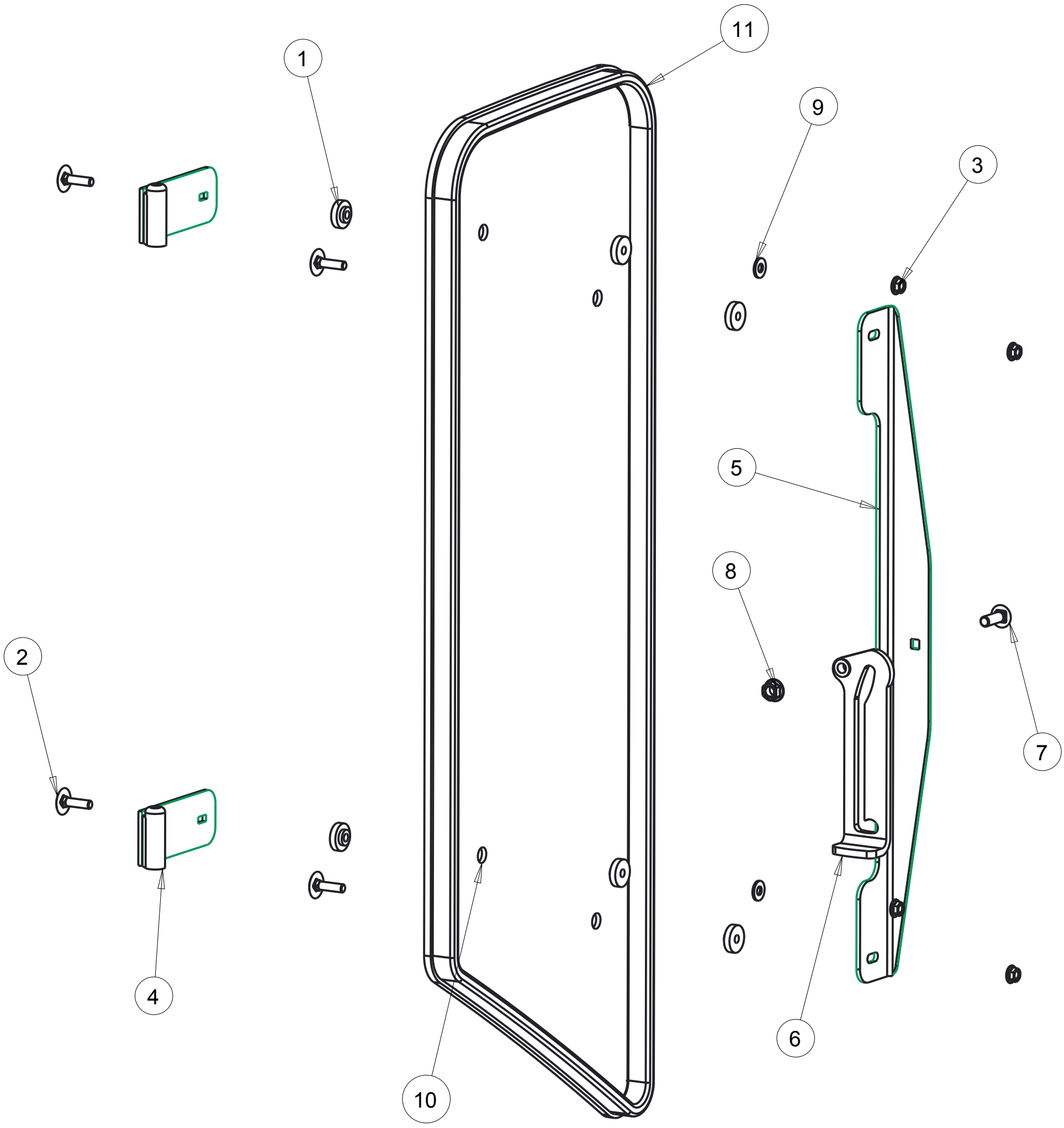
Before starting a spray vehicle equipped with a Tektite ROPS:

1. Clear the operator platform of all tools. Tools left in or around the ROPS and spray vehicle can cause operator interference which could lead to bodily injury and/or damage the machine.
2. Inspect the ROPS and spray vehicle to ensure all bolts are tight and re-tighten if required.
3. Ensure that all pedals, levers, and controls have adequate clearance for normal operation.
4. Ensure that all electrical components of both the ROPS and spray vehicle operate normally.
5. Ensure your door latches properly onto the striker pin. Immediately after installation, the ROPS frame may flex slightly from installation, and the door latch will need to be re-aligned for proper operation. Loosen the striker pin, striker mounting plate and door latch as necessary to get a proper alignment of the door striker.

Service Parts Breakdowns:

Following are parts breakdowns for components that may require service parts replacement during the life of the ROPS. If you require replacement parts, please contact the dealer that you purchased the ROPS from and indicate which parts you require.

Index	Service Part #	File Name	Description	Qty
1	A00-0013	TEKT-0009	5MM Bushing	8
2	A00-0019	STEP-BOLT1-4X1	Step Bolt, 1/4" x 1", MB	4
3	A00-0021	FLANGE-NUT-1-4	Flange Nut, 1/4", YD	4
4	A00-0044	TEKT-ASM-002	Side Window Hinge Weldment	2
5	A00-0045	TEKT-0004	Side Window Slider Bracket	1
6	A00-0057	TEKT-0020MIR	Side Window Latch, L60776	1
7	A00-0058	CARRIAGE_BOLT-5-16X1	Bolt, Carriage, 5/16"x 1", YD	1
8	A00-0059	FLANGE-NUT-5-16	Flange Nut, 5/16", YD	1
9	A00-0119	WASHER_1-4	Washer, Flat, 1/4"	2
10	S01-0004	SM3180-022	Side Window Glass	1
11	S01-0007	SM3180-074L	Side Window Weatherstripping	1



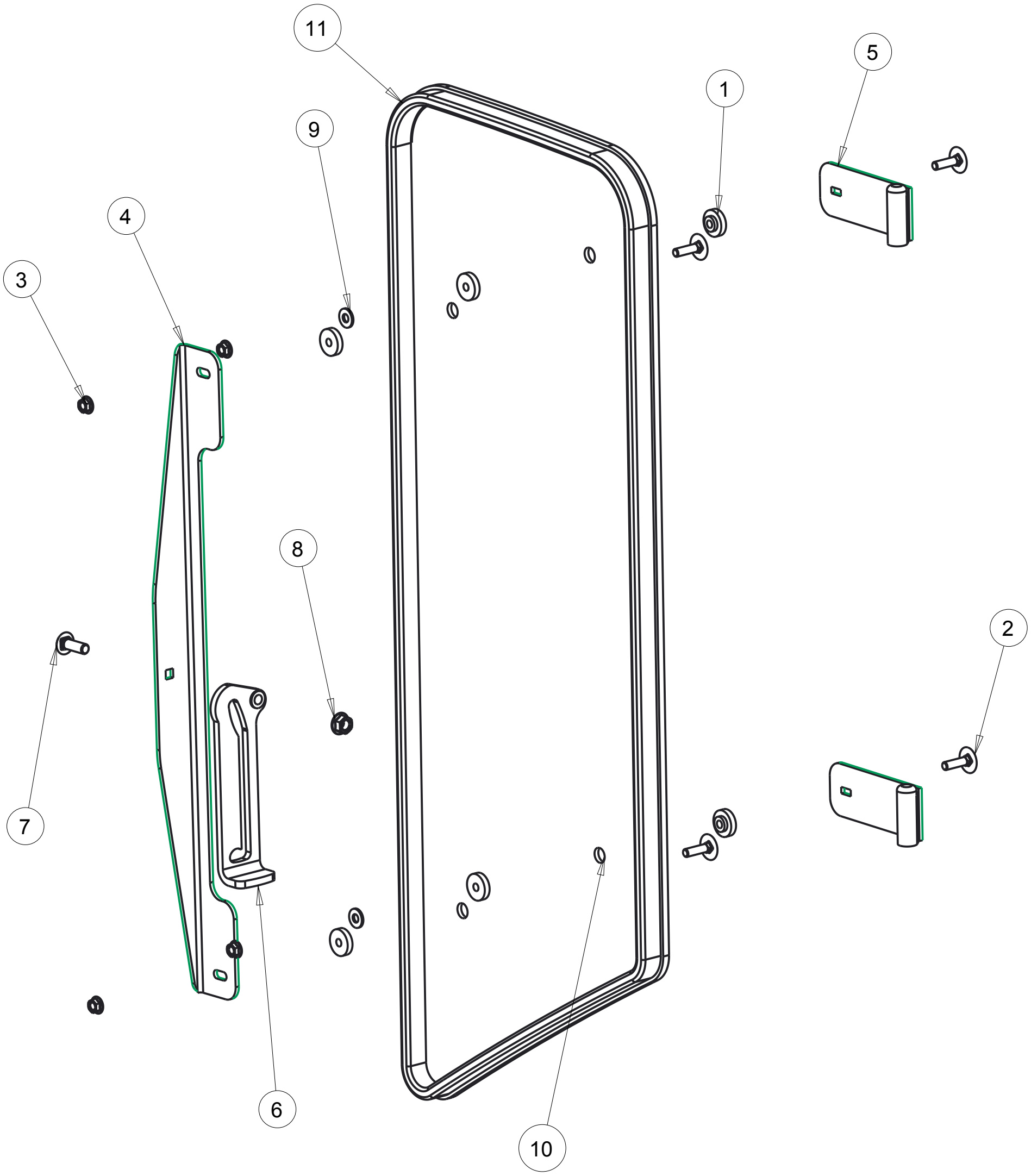
Tolerances:
Unless otherwise specified

X.X = ±1/16"
Angular = ± 1.0°

Tektite Manufacturing Inc.
24157 Hwy 3, Box 639, Winkler MB, R6W 4A8, Canada

Req'd:	CNC:	Description: Left Side Window Assembly		
Drawn By: *Daryl Furkalo*	Date: 2013-01-03	Units: Imp.	File Name: SM3180-ASM-006_OP	
Checked By:	Date:	Size: B		

Index	Service Part #	File Name	Description	Qty
1	A00-0013	TEKT-0009	5MM Bushing	8
2	A00-0019	STEP-BOLT1-4X1	Step Bolt, 1/4" x 1", MB	4
3	A00-0021	FLANGE-NUT-1-4	Flange Nut, 1/4", YD	4
4	A00-0045	TEKT-0004	Side Window Slider Bracket	1
5	A00-0046	TEKT-ASM-002R	Side Window Hinge Right	2
6	A00-0056	TEKT-0020	Side Window Latch, L60775	1
7	A00-0058	CARRIAGE_BOLT-5-16X1	Bolt, Carriage, 5/16"x 1", YD	1
8	A00-0059	FLANGE-NUT-5-16	Flange Nut, 5/16", YD	1
9	A00-0119	WASHER_1-4	Washer, Flat, 1/4"	2
10	S01-0004	SM3180-022	Side Window Glass	1
11	S01-0007	SM3180-074	Side Window Weatherstripping	1



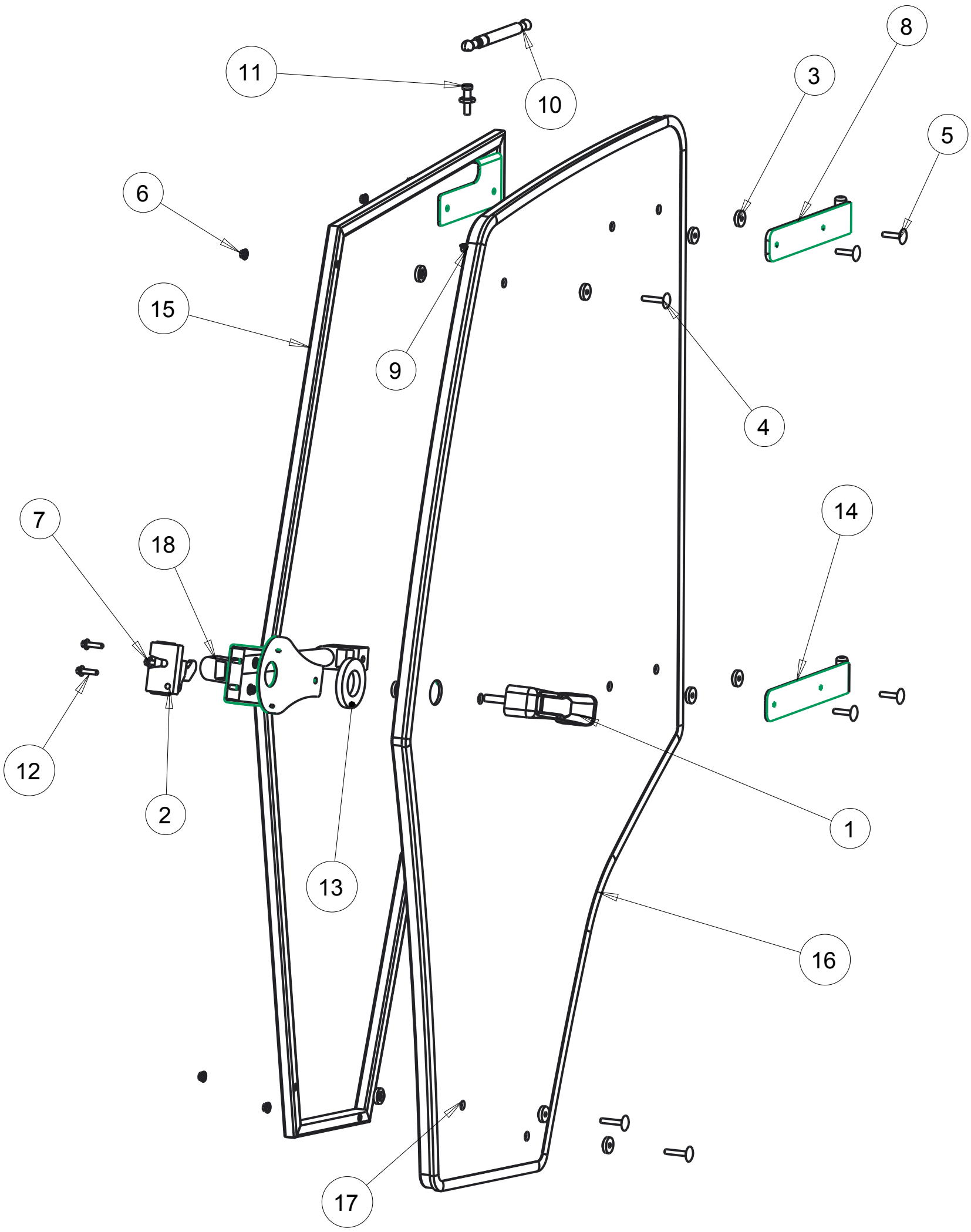
Tolerances:
Unless otherwise specified

X.X = ±1/16"
Angular = ± 1.0°

Tektite Manufacturing Inc.
24157 Hwy 3, Box 639, Winkler MB, R6W 4A8, Canada

Req'd:	CNC:	Description: Right Side Window Assembly		
Drawn By: *Daryl Furkalo*	Date: 203-01-03	Units: Imp.	File Name: SM3180-ASM-006R_OP	
Checked By:	Date:	Size: B		

Index	Service Part #	File Name	Description	Qty
1	A00-0001	DLP-HANDLE	Outside Push Button Handle	1
2	A00-0002	LEFT-LATCH	Suicide Door Left Latch	1
3	A00-0013	TEKT-0009	5MM Bushing	15
4	A00-0018	STEP-BOLT1-4X1-1-2	Step Bolt, 1/4" x 1 1/2", MB	3
5	A00-0020	STEP-BOLT1-4X1-1-4	Step Bolt, 1/4" x 1 1/4", MB	4
6	A00-0021	FLANGE-NUT-1-4	Flange Nut, 1/4", YD	9
7	A00-0022	FLANGE_BOLT_M6X25	Flange Bolt, M6x25, YD	1
8	A00-0039	TEKT-ASM-001	Left Door Hinge Weldment, Upper	1
9	A00-0059	FLANGE-NUT-5-16	Flange Nut, 5/16", YD	1
10	A00-0084	TEKT-0070	Gas Shock	1
11	A00-0085	TEKT-0069	Gas Shock Stud	1
12	A00-0118	FLANGE_BOLT_1-4X1	Flange Bolt, 1/4" x 1", YD	2
13	A00-0177	TEKT-0068	Handle Washer Spacer	1
14	A00-0228	TEKT-ASM-029	Left Door Hinge Weldment, Lower	1
15	S01-0002	SM3180-ASM-011	Left Door Frame Weldment	1
16	S01-0003	SM3180-064	Door Weather Seal	1
17	S01-0006	SM3180-023	Door Glass	1
18	S01-0011	SM3180-092	Door Handle, Smithco	1



Tolerances:
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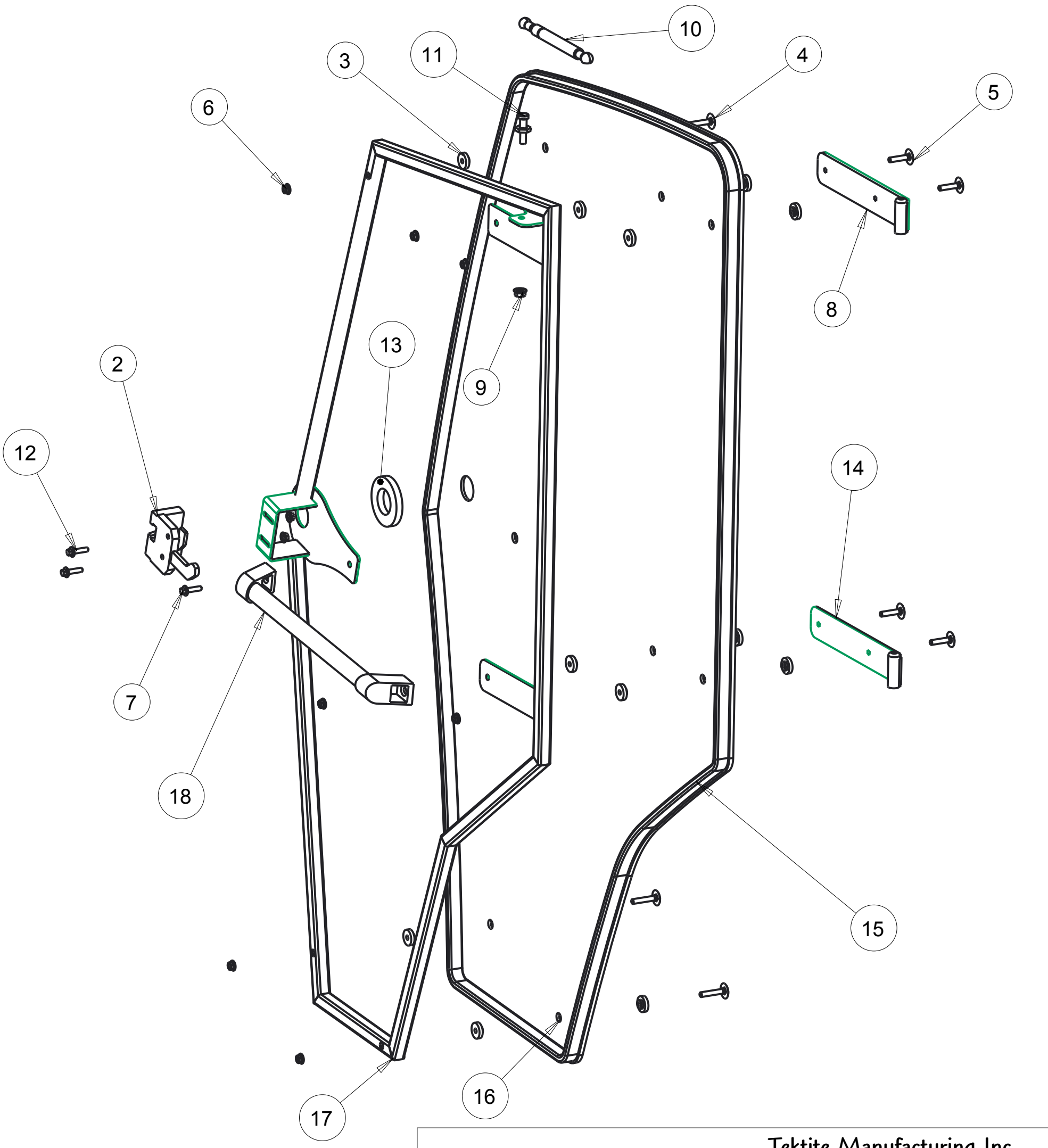
Angular = ± 1.0°

Tektite Manufacturing Inc.
24157 Hwy 3, Box 639, Winkler MB, R6W 4A8, Canada

Req'd:	CNC:	Description: Left Door Assembly		
Drawn By: *Daryl Furkalo*	Date: 2014-04-02	Units: Imp.	File Name: SM3180-ASM-007_OP	
Checked By:	Date:	Size: B		

Index	Service Part #	File Name	Description	Qty
1	A00-0001	DLP-HANDLE	Outside Push Button Handle	1
2	A00-0003	RIGHT-LATCH	Suicide Door Right Latch	1
3	A00-0013	TEKT-0009	5MM Bushing	15
4	A00-0018	STEP-BOLT1-4X1-1-2	Step Bolt, 1/4" x 1 1/2", MB	3
5	A00-0020	STEP-BOLT1-4X1-1-4	Step Bolt, 1/4" x 1 1/4", MB	4
6	A00-0021	FLANGE-NUT-1-4	Flange Nut, 1/4", YD	9
7	A00-0022	FLANGE_BOLT_M6X25	Flange Bolt, M6x25, YD	1
8	A00-0042	TEKT-ASM-001R	Right Cab Door Hinge Weldment, Upper	1
9	A00-0059	FLANGE-NUT-5-16	Flange Nut, 5/16", YD	1
10	A00-0084	TEKT-0070	Gas Shock	1
11	A00-0085	TEKT-0069	Gas Shock Stud	1
12	A00-0118	FLANGE_BOLT_1-4X1	Flange Bolt, 1/4" x 1", YD	2
13	A00-0177	TEKT-0068	Handle Washer Spacer	1
14	A00-0229	TEKT-ASM-029R	Right Door Hinge Weldment, Lower	1
15	S01-0003	SM3180-064R	Door Weather Seal	1
16	S01-0006	SM3180-023	Door Glass	1
17	S01-0010	SM3180-ASM-011R	Right Door Frame Weldment	1
18	S01-0011	SM3180-092	Door Handle, Smithco	1



Notice of Confidentiality

Tolerances:
Unless otherwise specified

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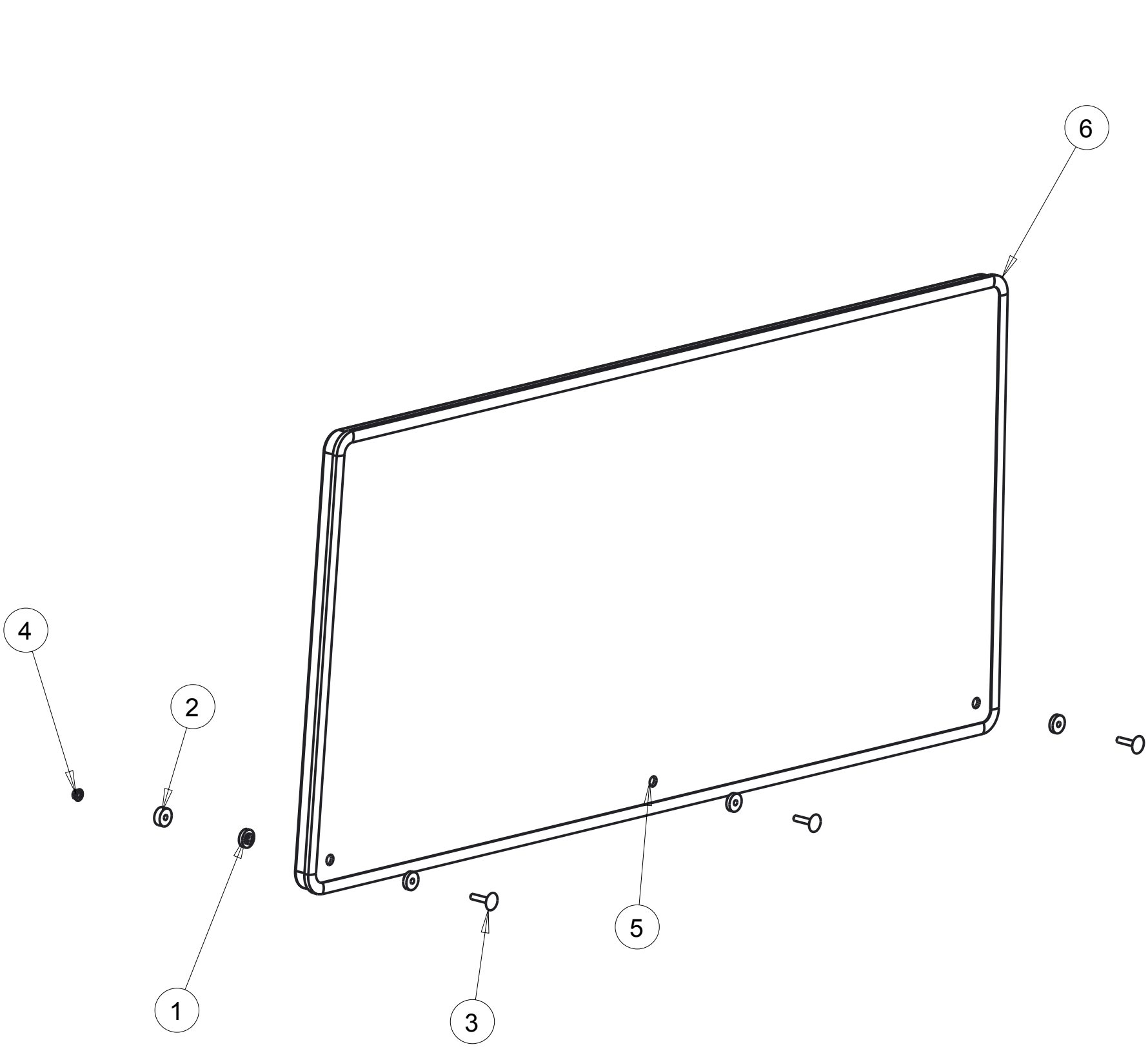
Angular = ± 1.0°

Tektite Manufacturing Inc.
24157 Hwy 3, Box 639, Winkler MB, R6W 4A8, Canada

Req'd:	CNC:	Description: Right Door Assembly		
Drawn By: *Daryl Furkalo*	Date: 2014-04-02	Units: Imp.	File Name: SM3180-ASM-007R_OP	
Checked By:	Date:	Size: B		

Index	Service Part #	File Name	Description	Qty
1	A00-0013	TEKT-0009	5MM Bushing	6
2	A00-0014	THICK-BUSHING	8MM Bushing	3
3	A00-0020	STEP-BOLT1-4X1-1-4	Step Bolt, 1/4" x 1 1/4", MB	3
4	A00-0021	FLANGE-NUT-1-4	Flange Nut, 1/4", YD	3
5	S01-0005	SM3180-026	Rear Window Glass	1
6	S01-0012	SM3180-075	Rear Window Weather Stripping	1



Tolerances:
Unless otherwise specified

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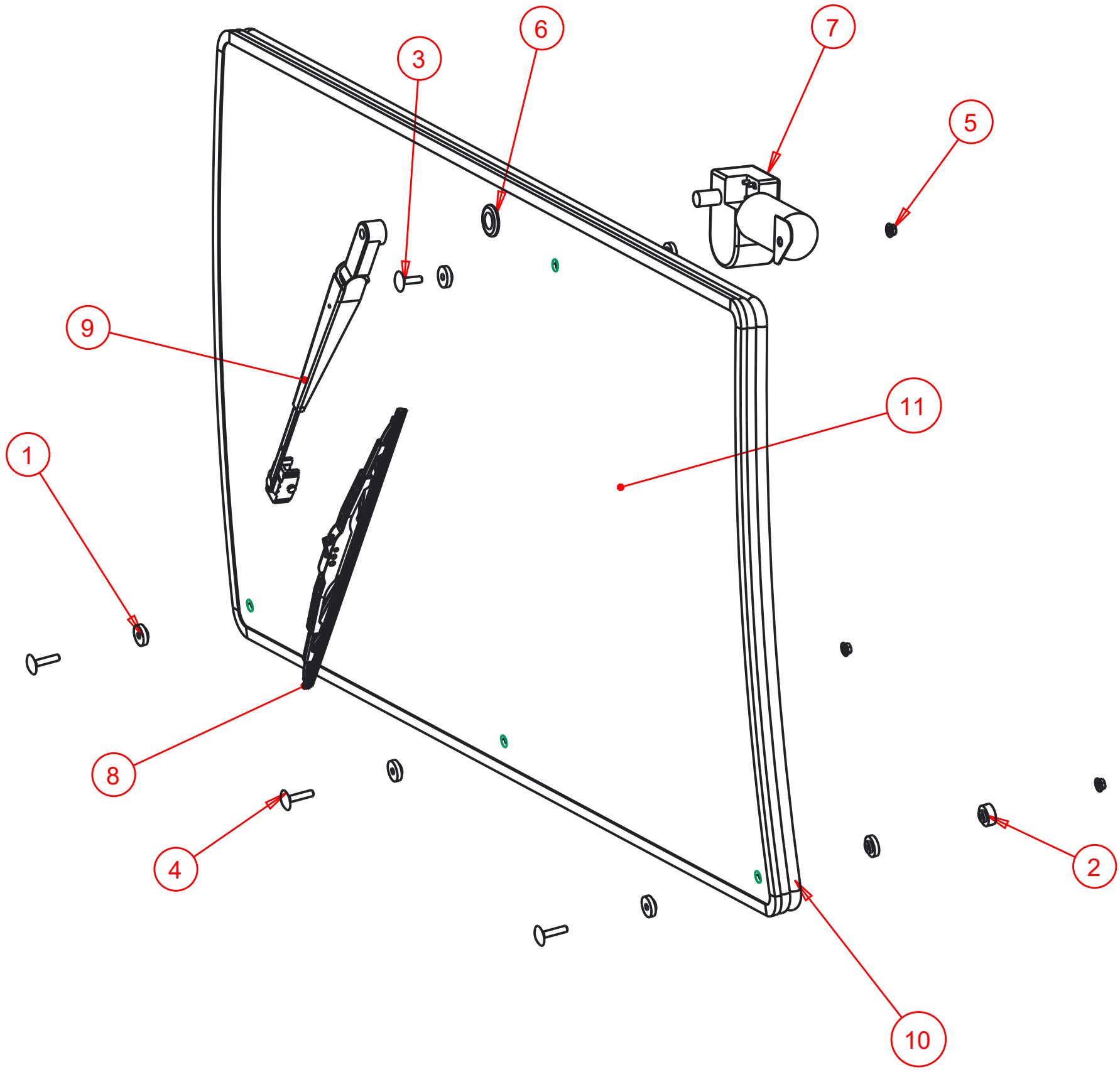
Angular = ± 1.0°

Tektite Manufacturing Inc.
24157 Hwy 3, Box 639, Winkler MB, R6W 4A8, Canada

Req'd:	CNC:	Description: Rear Window Assembly		
Drawn By: *Daryl Furkalo*	Date: 2013-01-03	Units: Imp.	File Name: SM3180-ASM-020_OP	
Checked By:	Date:	Size: B		

Index	Service Part #	File Name	Description	Qty
1	A00-0013	TEKT-0009	5MM Bushing	8
2	A00-0014	THICK-BUSHING	8MM Bushing	3
3	A00-0019	STEP-BOLT1-4X1	Step Bolt, 1/4" x 1", MB	1
4	A00-0020	STEP-BOLT1-4X1-1-4	Step Bolt, 1/4" x 1 1/4", MB	3
5	A00-0021	FLANGE-NUT-1-4	Flange Nut, 1/4", YD	4
6	A00-0033	315-080	Rear Wiper Shaft Grommet	1
7	A00-0043	WWF-MOTOR	WWF Wiper Motor, 1" Shaft	1
8	A00-0109	302-1160_BLADE	Wiper Blade, 16", Narrow Saddle	1
9	A00-0317	TEKT-ASM-053	WWF, Adjustable Radial Arm, 14 1/2" Length	1
10	S01-0001	SM3180-076	Windshield Seal	1
11	S01-0008	SM3180-027	Front Window Glass	1



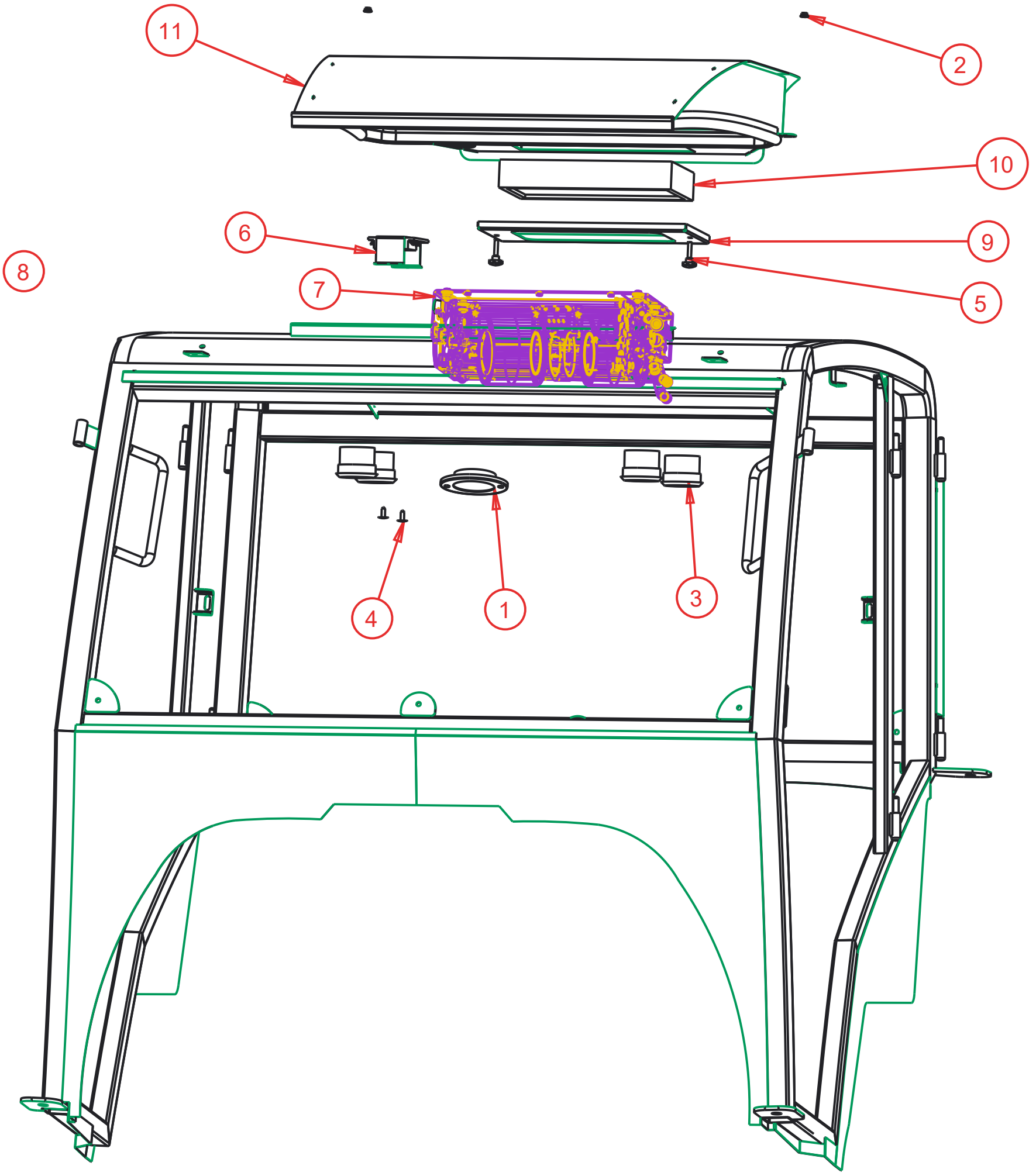
Tolerances:
Unless otherwise specified

X.X = ±1/16"
Angular = ± 1.0°

Tektite Manufacturing Inc.
24157 Hwy 3, Box 639, Winkler MB, R6W 4A8, Canada

Req'd:	CNC:	Description: Windshield Assembly		
Drawn By: *Daryl Furkalo*	Date: 2017-07-19	Units: Imp.	File Name: SM3180-ASM-021_OP	
Checked By:	Date:	Size: B		

Index	Service Part #	File Name	Description	Qty
1	A00-0016	TEKT-0075	Domelight LED	1
2	A00-0021	FLANGE-NUT-1-4	Flange Nut, 1/4", YD	2
3	A00-0025	BALL-LOUVER	2 1/2" Ball Louver	4
4	A00-0055	TEKT-0019	Fir Tree Fastener	2
5	A00-0070	REID-KBP-262-KBP-265	Knob, Knurled, 1/4"	2
6	A00-0074	TEKT-ASM-004	Fuse Block Assembly	1
7	A00-0105	R-2300-2_090902	Heater A/C Blower Unit, 2300	1
8	n/a	SM3180-ASM-013_TOP	Smithco 3180 ROPS Cab Frame	1
9	S01-0017	SM3180-041	Outer Filter Cover	1
10	S01-0018	SM3180-088	Air Filter	1
11	S01-0029	SM3180-ASM-028	Roof Cap, Oct 2013 Update	1



Tolerances:

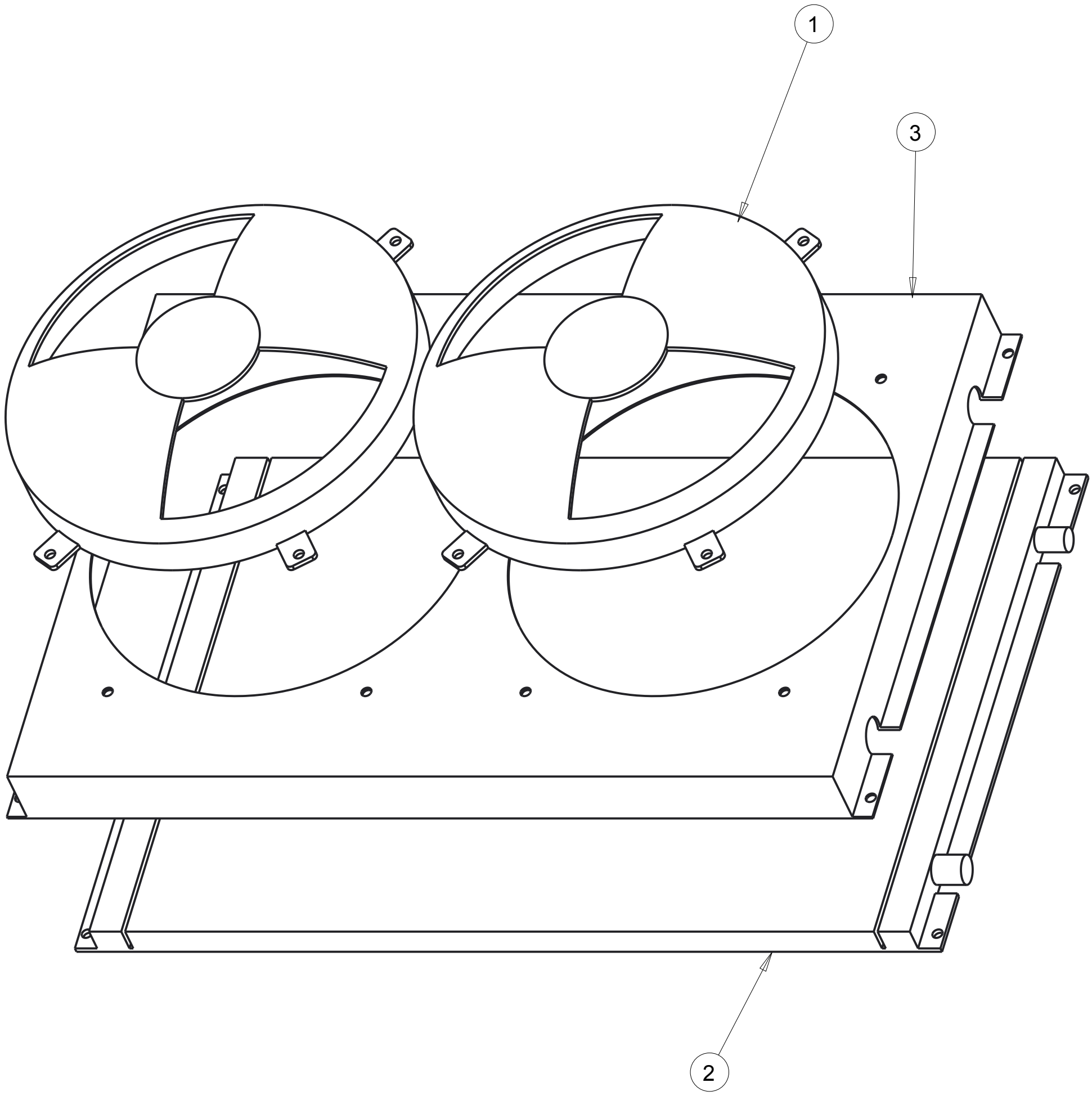
Unless otherwise specified

X.X = ±1/16"
Angular = ± 1.0°

Tektite Manufacturing Inc.
24157 Hwy 3, Box 639, Winkler MB, R6W 4A8, Canada

Req'd:	CNC:	Description: Roof Components Oct 2013 Update		
Drawn By: *Daryl Furkalo*	Date: 2017-07-06	Units: Imp.	File Name: SM3180-ASM-014_TOP-ASM	
Checked By:	Date:	Size: B		

Index	Service Part #	File Name	Description	Qty
1	A00-0166	TEKT-0103	Condensor Fan	2
2	A00-0220	TEKT-0101	Base Condenser Coil	1
3	A00-0221	TEKT-0102	Condensor Assembly Steel Shroud	1



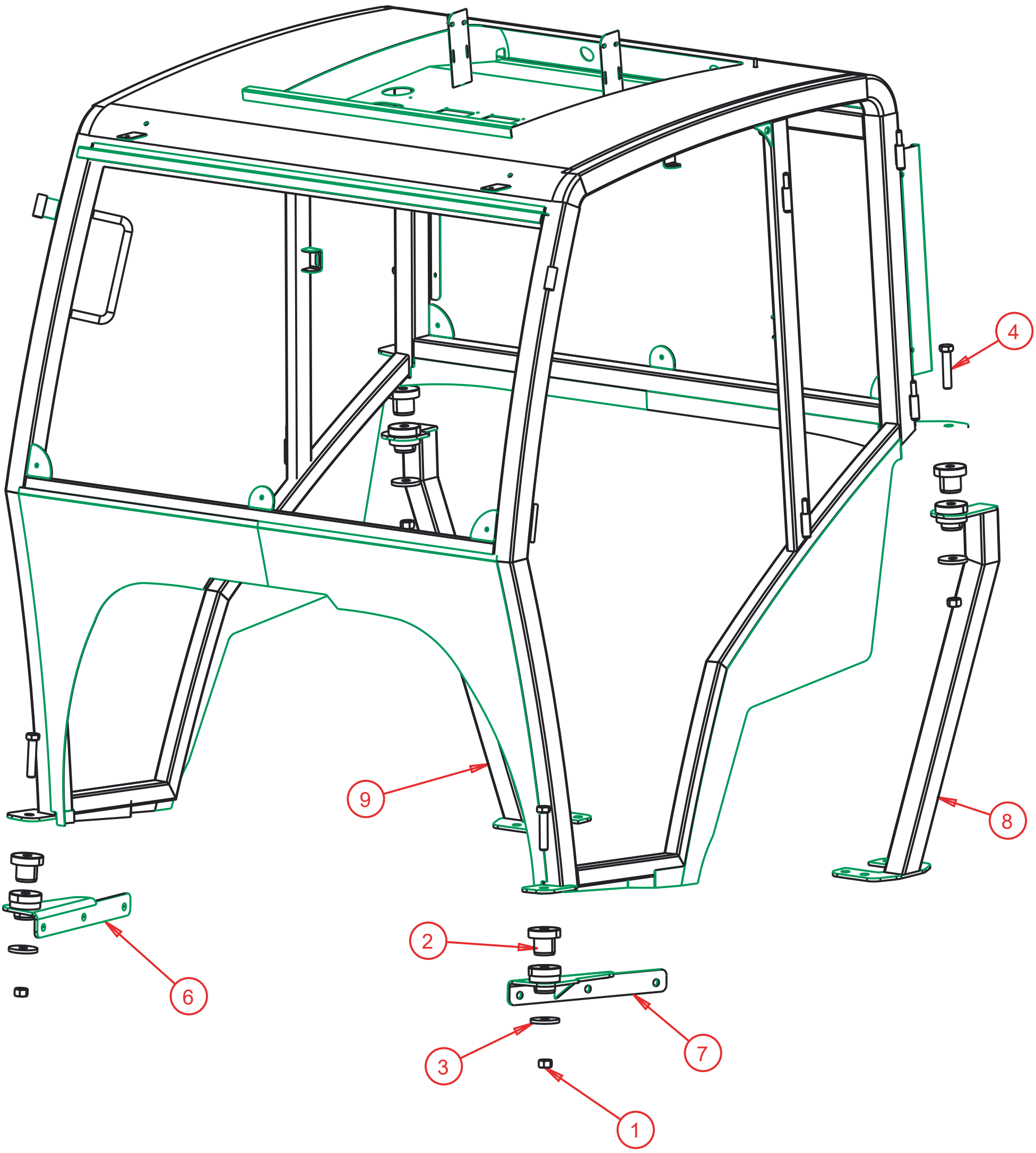
Tolerances:
Unless otherwise specified

X.X = ±1/16"
Angular = ± 1.0°

Tektite Manufacturing Inc.
24157 Hwy 3, Box 639, Winkler MB, R6W 4A8, Canada

Req'd:	CNC:	Description:	
		Condensor Assembly Breakdown	
Drawn By:	Date:	Units:	File Name:
Daryl Furkalo	2013-07-04	Imp.	TEKT-ASM-026
Checked By:	Date:	Size:	
		B	

Index	Service Part #	File Name	Description	Qty
1	A00-0086	HEX-NUT-5-8	Nut, Hex, 5/8", Gr.8, YD	4
2	A00-0095	TEKT-0057	ROPS Isolator	4
3	A00-0154	TEKT-0062	Heavy Flat Washer	4
4	A00-0208	HEX-BOLT_5-8X3	Hex Bolt, 5/8" x 3", Gr. 8	4
5	n/a	SM3180-ASM-013_TOP	Smithco 3180 ROPS Cab Frame	1
6	S01-0013	SM3180-ASM-003R	Right Front Bracket	1
7	S01-0014	SM3180-ASM-003	Left Front Bracket	1
8	S01-0015	SM3180-ASM-004	Left Rear Bracket	1
9	S01-0016	SM3180-ASM-004R	Right Rear Bracket	1



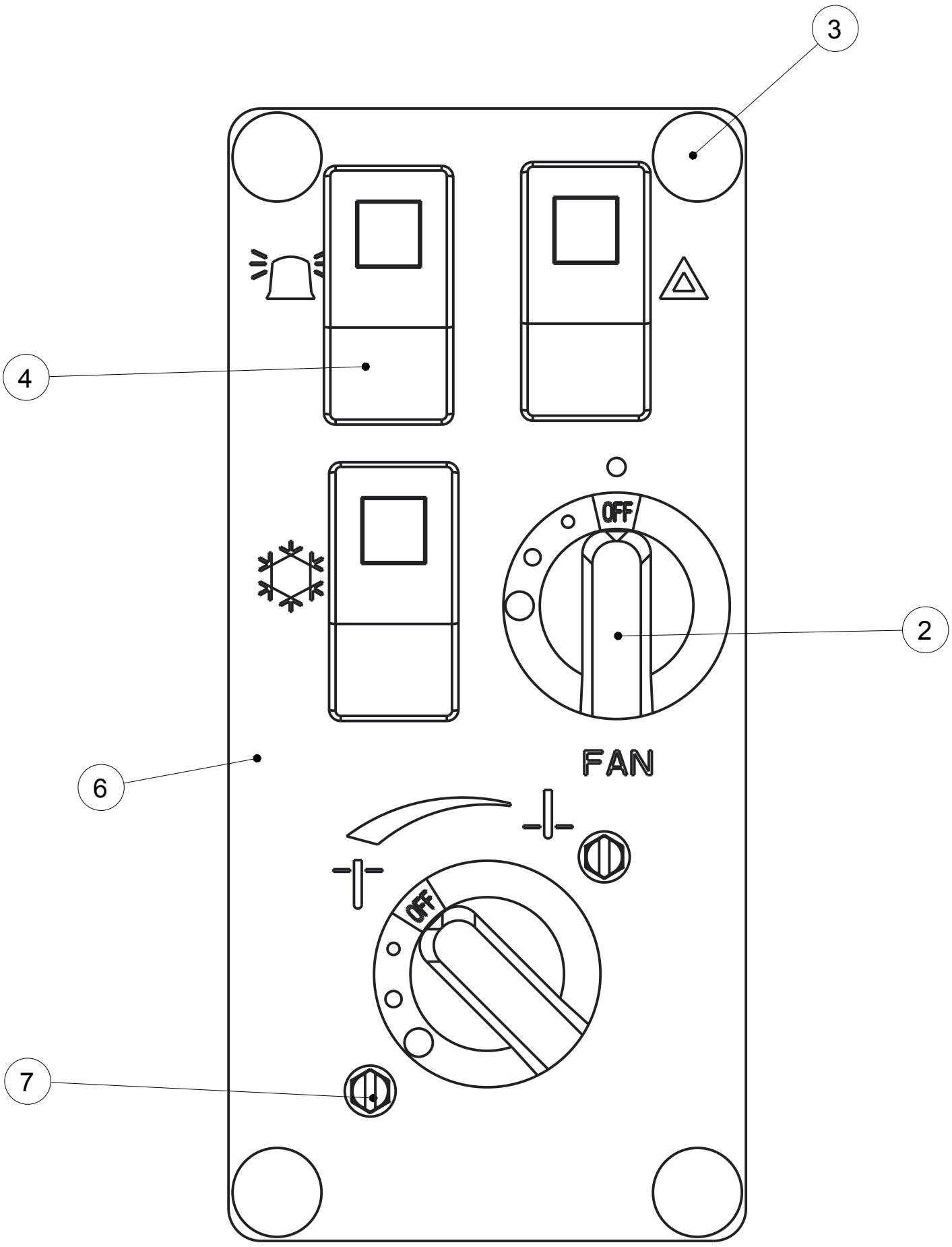
Tolerances:
Unless otherwise specified

X.X = ±1/16"
Angular = ± 1.0°

Tektite Manufacturing Inc.
24157 Hwy 3, Box 639, Winkler MB, R6W 4A8, Canada

Req'd:	CNC:	Description: Mounting Assembly		
Drawn By: *Daryl Furkalo*	Date: 2017-07-06	Units: Imp.	File Name: SM3180-ASM-026	
Checked By:	Date:	Size: B		

Index	Service Part #	File Name	Description	Qty
1	A00-0007	FAN-SWITCH	4-Position Fan Switch	1
2	A00-0054	TEKT-0018	Fan Speed Control Knob	2
3	A00-0055	TEKT-0019	Fir Tree Fastener	4
4	A00-0065	TEKT-ASM-005	On-Off Switch w/Lens	3
5	A00-0252	TEKT-0117	Water Valve Directly on Switch	1
6	A00-0253	TEKT-0119	Right Switchplate Decal, 2014 Update	1
7	A00-0282	SCREW-3-16X3-4	Screw, Self-Tap, 3/16" x 3/4"	2
8	A00-0283	TEKT-0118	Right Switchplate, 2014 Redesign	1



SCALE 1.000

Notice of Confidentiality

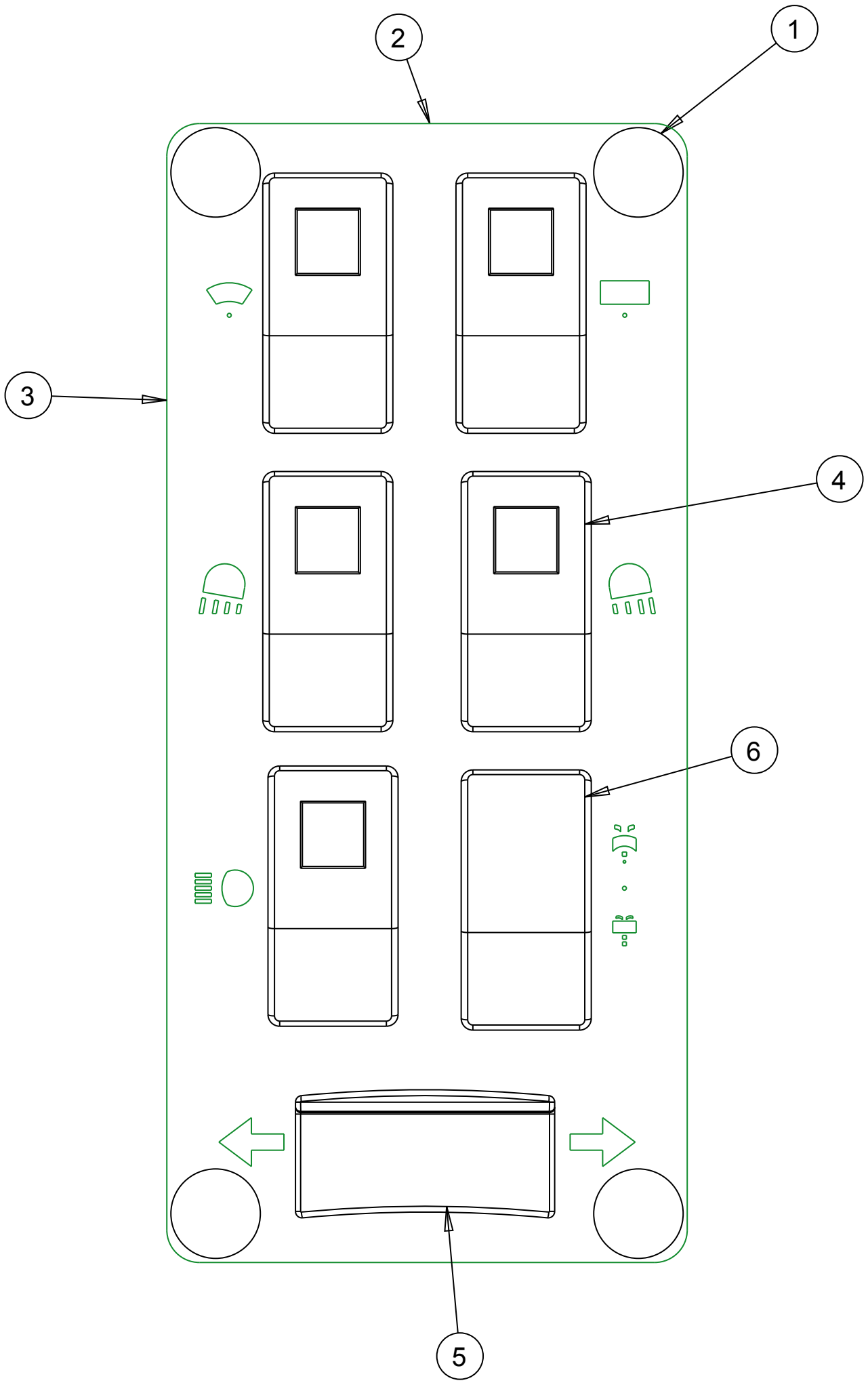
Tolerances:
Unless otherwise specified

X.X = ±1/16"
Angular = ± 1.0°

Tektite Manufacturing Inc.
24157 Hwy 3, Box 639, Winkler MB, R6W 4A8, Canada

Req'd:	CNC:	Description:	
		New Valve Design Switch Plate, 2014	
Drawn By:	Date:	Units:	File Name:
Daryl Furkalo	2014-02-05	Imp.	TEKT-ASM-030
Checked By:	Date:	Size:	
		B	

Index	Service Part #	File Name	Description	Qty
1	A00-0055	TEKT-0019	Fir Tree Fastener	4
2	A00-0063	LEFT-CAB-SWITCHPLATE	Left Switchplate	1
3	A00-0064	LEFT-CAB-SWITCHPLATE-DECAL	Left Switchplate Decal	1
4	A00-0065	TEKT-ASM-005	On-Off Switch w/Lens	5
5	A00-0066	TEKT-ASM-006	On-Off-On Rocker No Lens	1
6	A00-0067	TEKT-ASM-007	Mom-Off-Mom Rocker Switch	1



SCALE 1.000

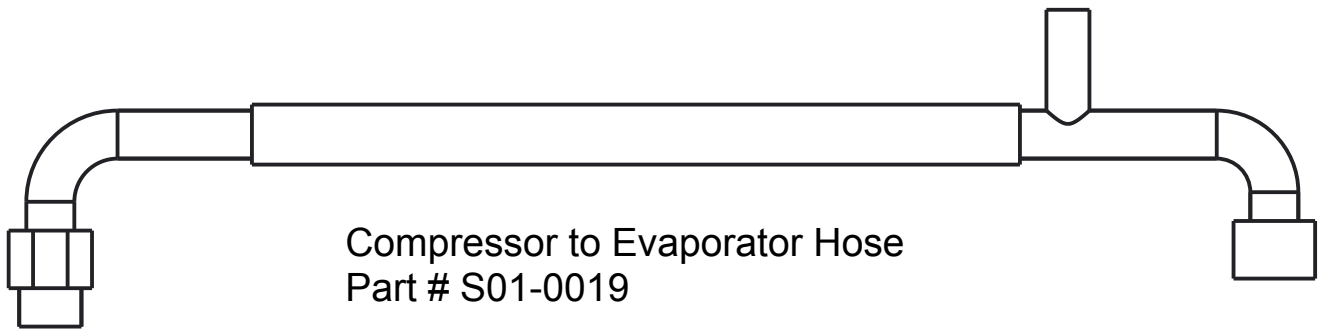
Tolerances:
Unless otherwise specified

X.X = ± 1/16"
Angular = ± 1.0 °

Tektite Manufacturing Inc.
24157 Hwy 3, Box 639, Winkler MB, R6W 4A8, Canada

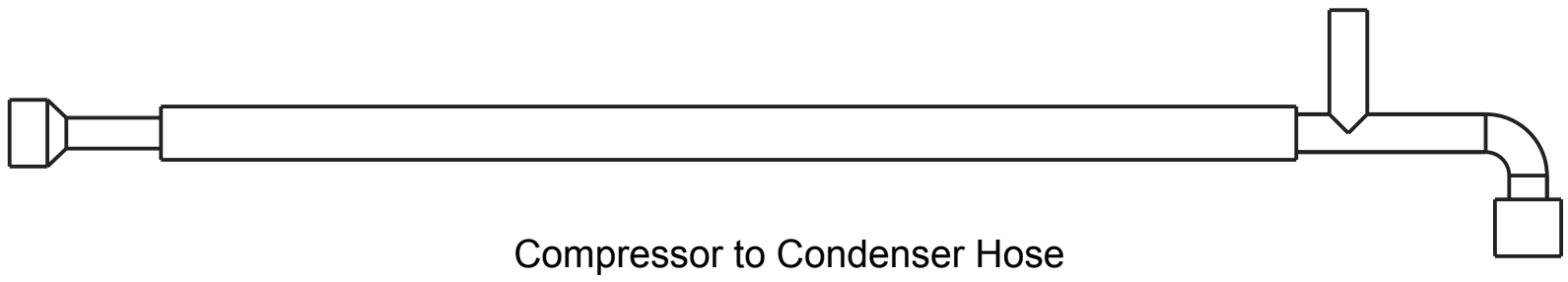
Req'd:	CNC:	Description: Operator Manual Switch Plate Left		
Drawn By: *Daryl Furkalo*	Date: 2009-03-09	Units: Imp.	File Name: LEFT-SWITCHPLATE-ASM	
Checked By:	Date:	Size: B		

Dryer to Evaporator Hose
Part # S01-0022



Compressor to Evaporator Hose
Part # S01-0019

Condenser to Dryer Hose
Part # S01-0021



Compressor to Condenser Hose
Part # S01-0020

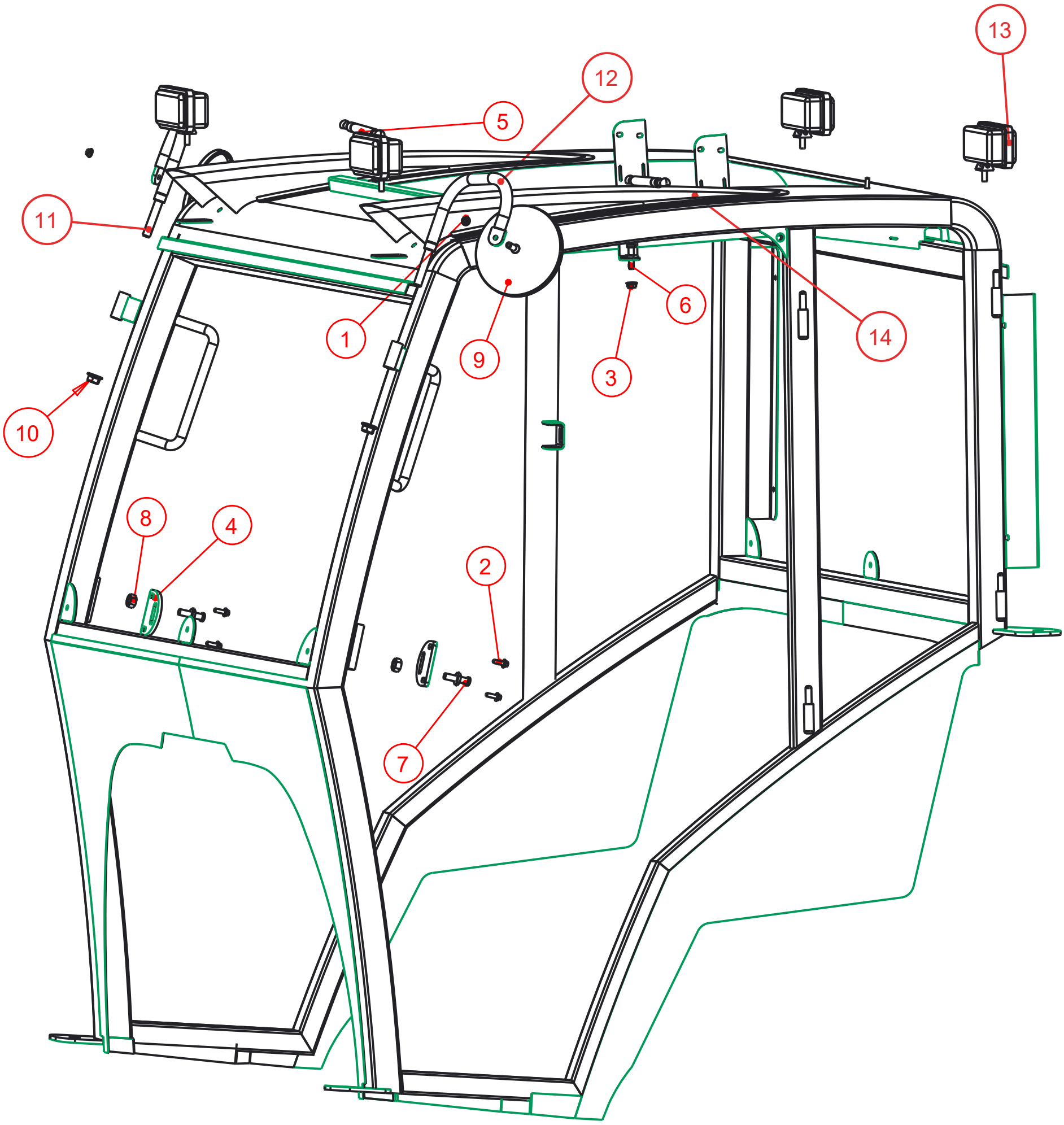
Tolerances:
Unless otherwise specified

X.X = ±1/16"
Angular = ± 1.0°

Tektite Manufacturing Inc.
24157 Hwy 3, Box 639, Winkler MB, R6W 4A8, Canada

Req'd:		Description:		
1 req		A/C Hoses Breakdown		
Drawn By:	Date:	Units:	File Name:	
Daryl Furkalo	2013-03-13	Imp.		
Checked By:	Date:	Size:		
		B		

Index	Service Part #	File Name	Description	Qty
1	A00-0021	FLANGE-NUT-1-4	Flange Nut, 1/4", YD	2
2	A00-0023	FLANGE_BOLT_1-4X3-4	Flange Bolt, 1/4" x 3/4", YD	4
3	A00-0059	FLANGE-NUT-5-16	Flange Nut, 5/16", YD	2
4	A00-0061	TEKT-0021	Striker Mounting Plate	2
5	A00-0084	TEKT-0070	Gas Shock	2
6	A00-0085	TEKT-0069	Gas Shock Stud	2
7	A00-0101	STRIKER-PIN	Striker Pin	2
8	A00-0103	HEX-NUT-M12X1	Hex Nut, M12 x 1.0, YD	2
9	A00-0141	ROUND_MIRROR_6_INCH	External 6" Mirror	2
10	A00-0179	FLANGE-NUT-1-2	1/2" Nut	2
11	A00-0202	TEKT-ASM-009R	Right Mirror Bracket Weldment	1
12	A00-0203	TEKT-ASM-009	Left Mirror Bracket Weldment	1
13	A00-0371	TEKT-0175	New LED Work Light (Blazer Intl)	4
14	A00-0389	KUBX2380-NOSTRIL	Plastic Light Nostril	2
15	n/a	SM3180-ASM-013_TOP	Smithco 3180 ROPS Cab Frame	1



Tolerances:
Unless otherwise specified

X.X = ±1/16"
Angular = ± 1.0°

Tektite Manufacturing Inc.
24157 Hwy 3, Box 639, Winkler MB, R6W 4A8, Canada

Req'd:	CNC:	Description: Accessories Assembly		
Drawn By: *Daryl Furkalo*	Date: 2017-07-06	Units: Imp.	File Name: SM3180-ASM-033	
Checked By:	Date:	Size: B		