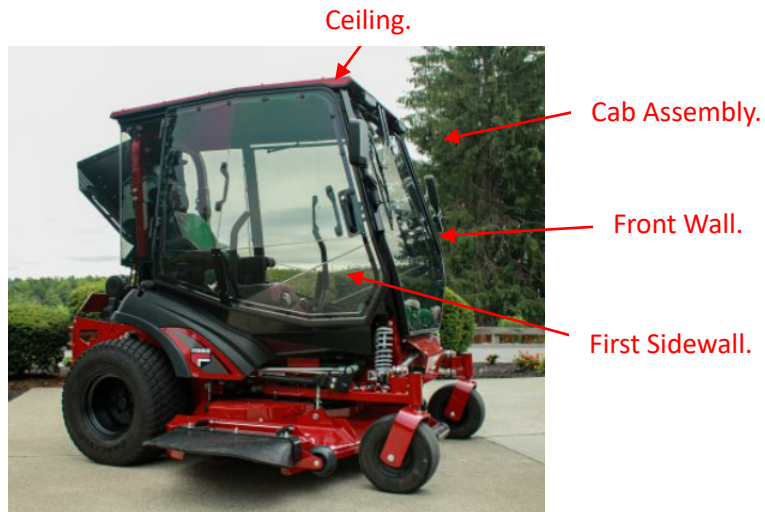


‘815 Patent Claim Chart

US 10,632,815	Curtis Cab's "Premium AC Cab For Ferris ISX3300"
1[pre] An enclosure system for a lawn mower, the system comprising:	The Curtis Cab provides an enclosure system for a lawn mower as shown in the photo below.  Enclosure System. Lawn Mower. See, e.g., https://curtisindustries.net/shop/product/premium-ac-cab-for-ferris-isx3300/.

1[a] a cab assembly having a front wall, a first sidewall, a second sidewall, and a ceiling that collectively define an interior volume,

The Curtis Cab contains a cab assembly with a front wall, two sidewalls, and a ceiling defining an internal volume.



1[b] wherein the cab assembly is adapted to secure to a mower frame of the lawn mower such that a user may occupy the interior volume while operating the lawn mower; and

The Curtis Cab is adapted to secure to a preexisting lawn mower frame of the lawn mower. This is clearly present as there is a seat for an operator inside the internal volume configured to allow the operator to access the controls of the lawn mower. The mower frame is the preexisting structural frame of the riding lawn mower about which the cab assembly is shaped.



Seat and controls for operator inside interior volume.

Mower Frame includes the preexisting geometry of the mower body, specifically the sections forming the connection between the lawn mower and the cab.

The Mower frame is modified with “Front cab mounts” to support the cab assembly as shown below.

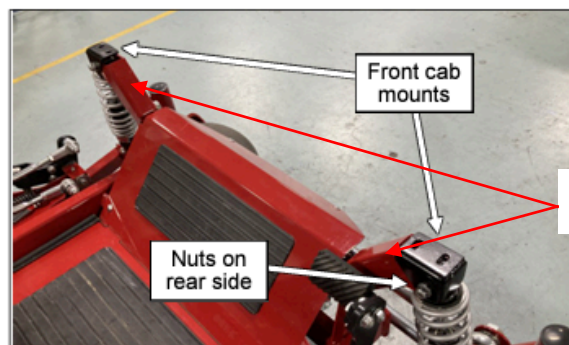
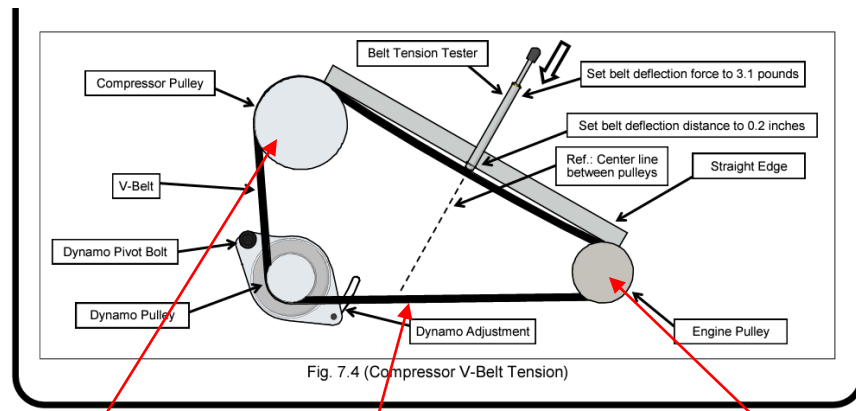
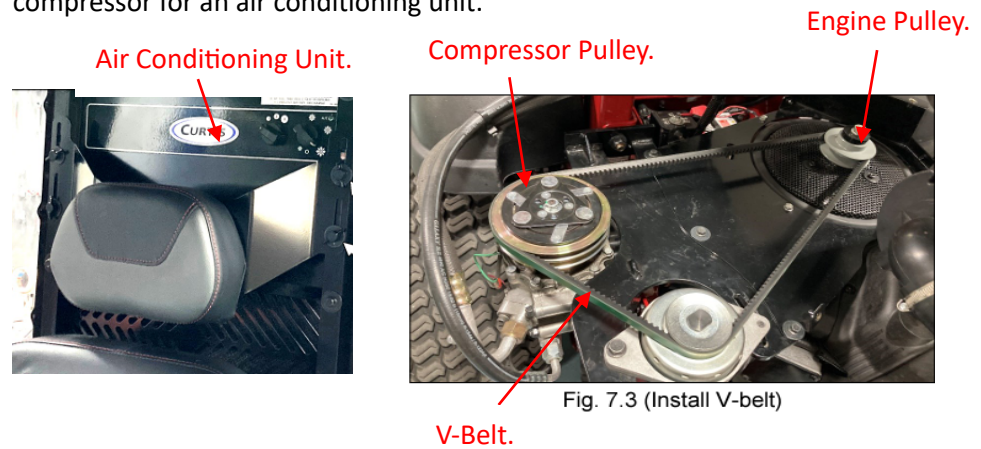


Fig. 3.5 (Install front cab mounts)

1[c] an air conditioning unit configured to produce conditioned air, wherein the air conditioning unit is adapted to be powered in part by rotary motion transmitted from an engine of the lawn mower,

The below instructional diagram is taken from the installation manual found at: <https://curtisindustries.net/shop/product/premium-ac-cab-for-ferris-isx3300/> on June 13, 2023, at 11:53 AM. The below figures and images depict mounting a v-belt between a pulley mounted to a shaft connected to the engine and a compressor for an air conditioning unit.



Compressor Pulley.

V-Belt to transfer rotary motion between the engine and compressor.

Engine Pulley.

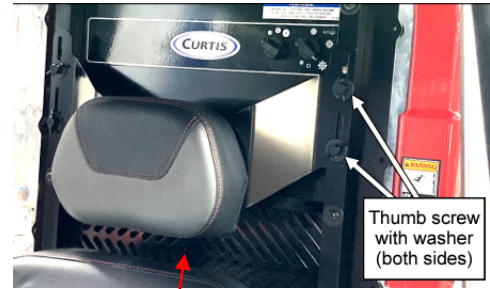
Thus, the air conditioning unit is powered, in part, by rotary motion from an engine of the lawn mower.

1[d] the air conditioning unit being secured in relation to the cab assembly such that conditioned air produced by the air conditioning unit is emitted directly into the interior volume,

The air conditioning unit is mounted directly behind the headrest and blows air directly into the interior volume.



Air Conditioning Unit.



Thumb screw with washer (both sides)

Vents to expel conditioned air from the air conditioning unit directly into the interior volume.

1[e] wherein one or more components of the air conditioning unit define a rear wall disposed opposite the front wall,

As shown below, the air conditioning unit is mounted directly behind the headrest in the interior volume and the vents and unit define a rear wall opposite the front wall.



Air Conditioning Unit.

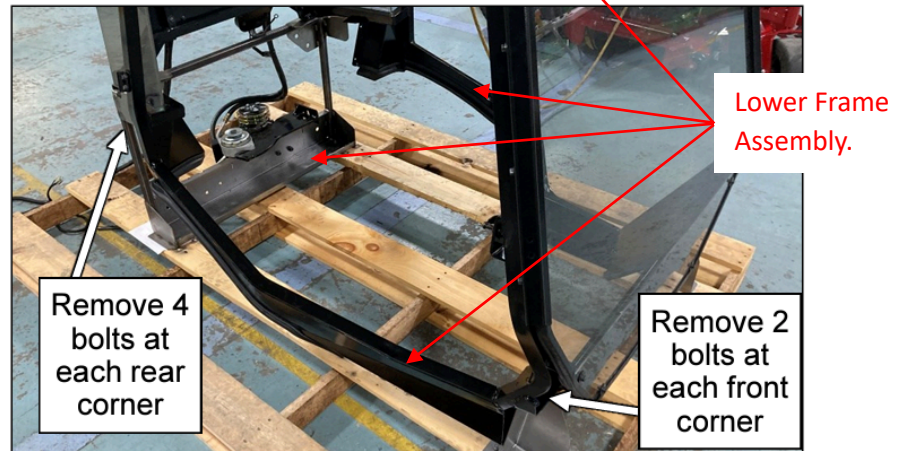
Front Wall.



Rear Wall / Air Conditioning Unit.

1[f] wherein the cab assembly includes a lower frame adapted to be secured to the mower frame such that when the lower frame is secured to the mower frame the front wall is disposed in front of an operator seat of the lawn mower and the rear wall is disposed behind the operator seat; and

As shown below, when the cab is mounted on the lawn mower frame by a lower frame of the cab assembly, the front wall is in front of an operator's seat and the rear wall is behind the operator's seat. The lower frame is the lower portion of the cab assembly that is shaped to the riding mower frame and extends around the front and sides of the mower frame.



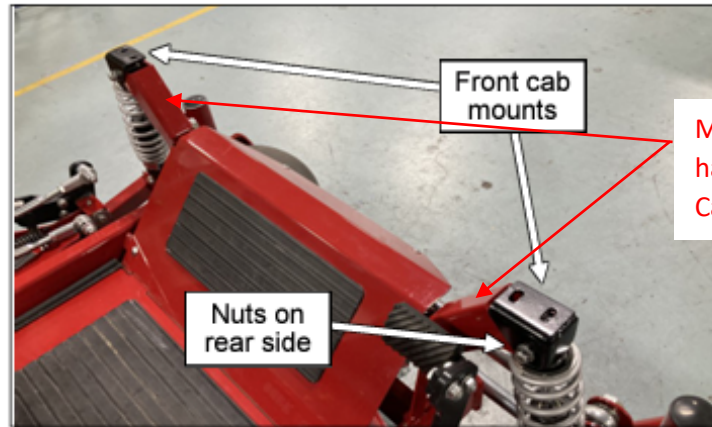


Fig. 3.5 (Install front cab mounts)

The “Front Cab Mounts” are adapted to secure the lower frame of the cab assembly to the mower frame.

1[g] wherein the cab assembly has a height that increases as the cab assembly extends from the rear wall to the front wall.



As shown, H1 is smaller than H2. H2 is smaller than H3. H3 is smaller than H4. Therefore, the cab has a height that increases as the cab extends from the rear wall to the front wall.

US 10,632,815	Curtis Cab's "Premium AC Cab For Ferris ISX3300"
3. The system of claim 1, wherein the first sidewall and the second sidewall each have a first end proximal to the front wall and a second end opposite the first end, wherein a height of the first sidewall and the second sidewall decreases as each sidewall extends from the first end to the second end.	As the sidewall extends from a first end proximal to the front wall to the second end proximal to the rear wall, the height of the sidewall decreases. This limitation is met as H1 is greater than H2, H2 is greater than H3, and H3 is greater than H4.

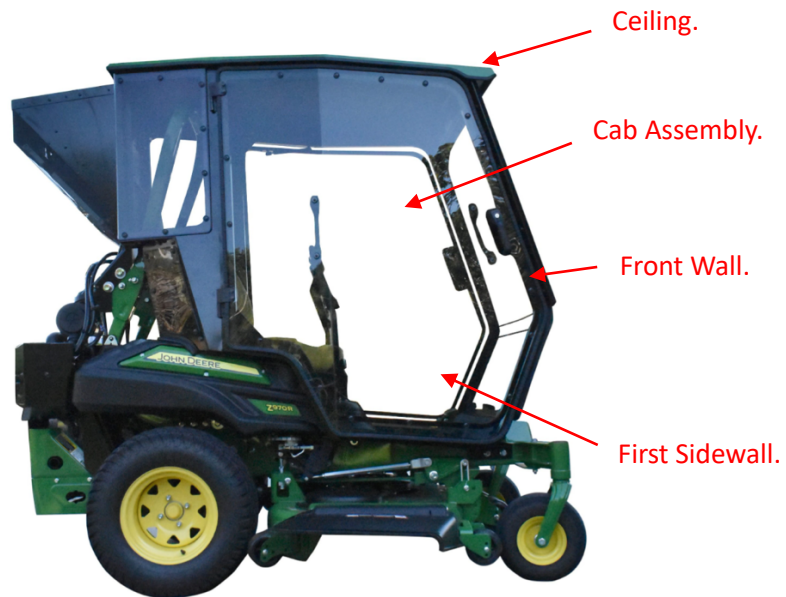
US 10,632,815	Curtis Cab's "Premium AC Cab For Ferris ISX3300"
4. The system of claim 1, wherein at least one of the first sidewall, the second sidewall, and the front wall is semi-transparent.	 Clear material for front and side walls. The front wall and both sidewalls of the cab are transparent to allow an operator to see through the cab.

‘815 Patent Claim Chart

US 10,632,815	Curtis Cab's "Premium AC Cab For John Deere Z970R"
1[pre] An enclosure system for a lawn mower, the system comprising:	The Curtis Cab provides an enclosure system for a lawn mower as shown in the photo below.  Enclosure System. Lawn Mower. See, e.g., https://curtisindustries.net/shop/product/premium-ac-cab-for-john-deere-z970r/

1[a] a cab assembly having a front wall, a first sidewall, a second sidewall, and a ceiling that collectively define an interior volume,

The Curtis Cab contains a cab assembly with a front wall, two sidewalls, and a ceiling defining an internal volume.





1[b] wherein the cab assembly is adapted to secure to a mower frame of the lawn mower such that a user may occupy the interior volume while operating the lawn mower; and

The Curtis Cab is adapted to secure to a lawn mower frame of the lawn mower. This is clearly present as there is a seat for an operator inside the internal volume configured to allow the operator to access the controls of the lawn mower. The mower frame is the preexisting structural frame of the riding lawn mower, about which the cab assembly is shaped.

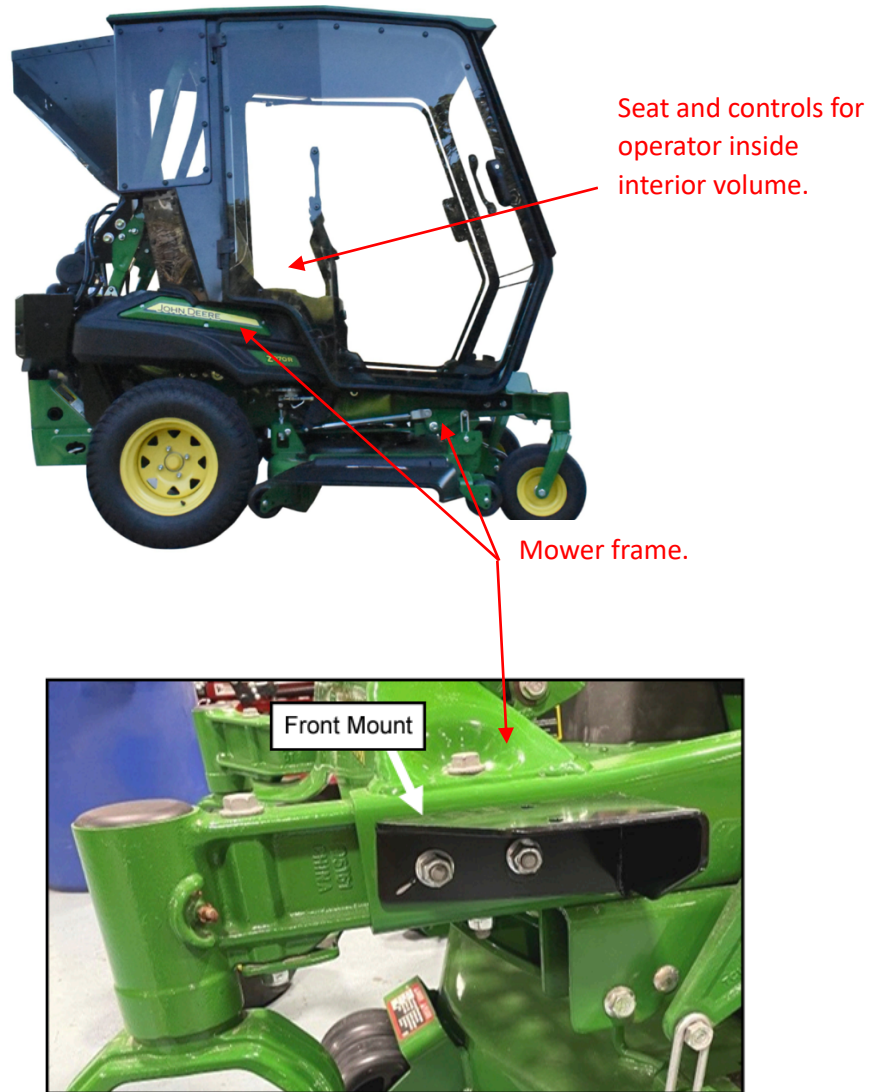


Fig. 1.22b (Install Front Mount, Left Side)

“Front Mount” of the cab assembly is adapted to secure to the mower frame and secure the lower frame to the mower frame.

1[c] an air conditioning unit configured to produce conditioned air, wherein the air conditioning unit is adapted to be powered in part by rotary motion transmitted from an engine of the lawn mower,

The below instructional diagram is taken from the installation manual found at: <https://curtisindustries.net/wp-content/uploads/2023/04/john-deere-z970r-premium-cab-1jdz970rpr-rev-d.pdf> on April 26, 2024, at 8:38 AM. The below figures and images depict modifying the John Deere engine flywheel to accept a pulley configured to transmit the rotary motion of the flywheel to the air compressor of the air conditioning unit.

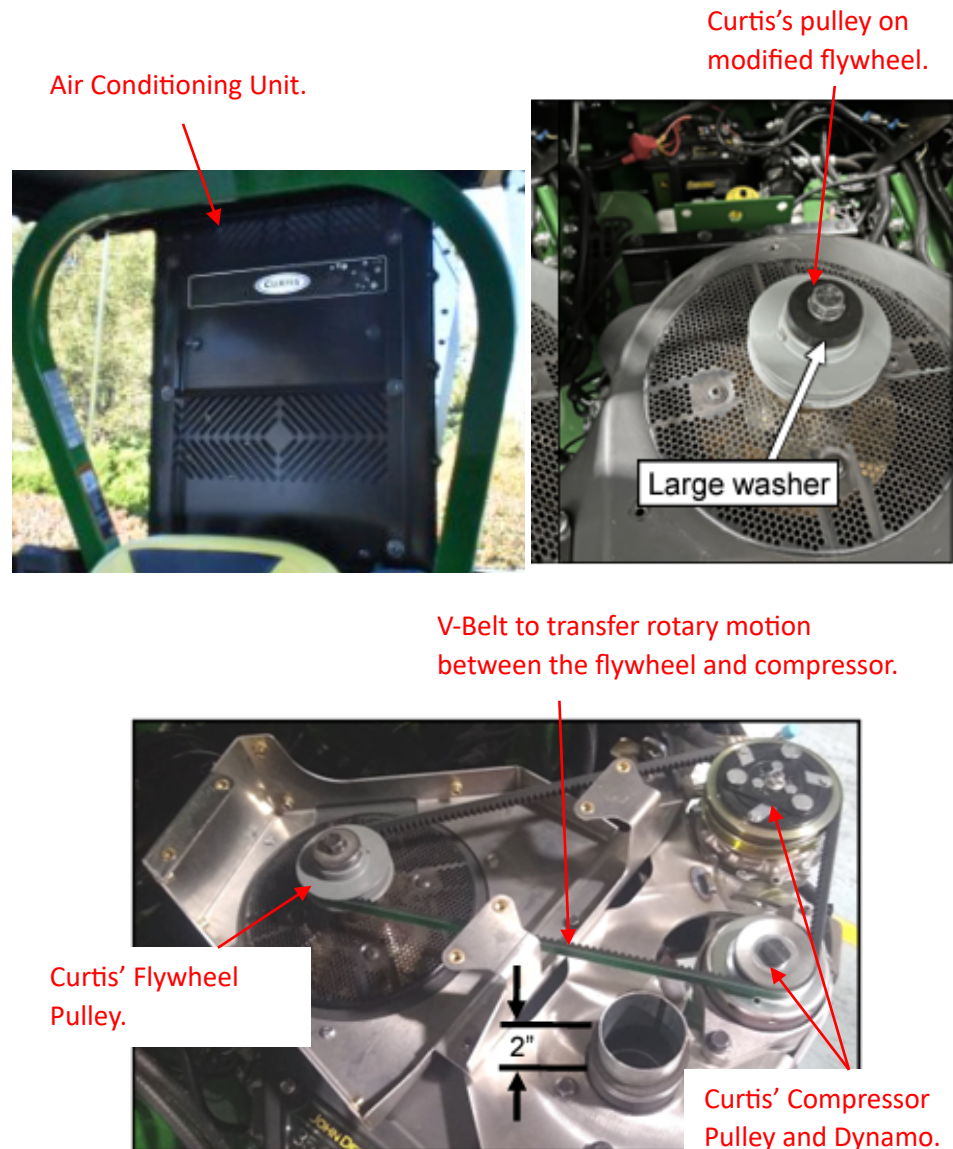
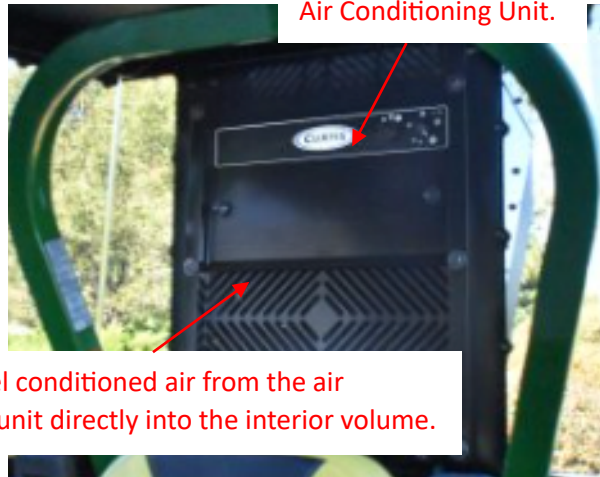


Fig. 2.15 (V-Belt Orientation)

The Curtis Cab modifies the John Deere mower engine by adding a pulley to the flywheel. The rotary motion from the flywheel is then transmitted to the air compressor of the air conditioner by a V-Belt. Thus, the air conditioning unit is powered, in part, by rotary motion from an engine of the lawn mower.

1[d] the air conditioning unit being secured in relation to the cab assembly such that conditioned air produced by the air conditioning unit is emitted directly into the interior volume,

The air conditioning unit is mounted directly behind the seat and blows air directly into the interior volume.

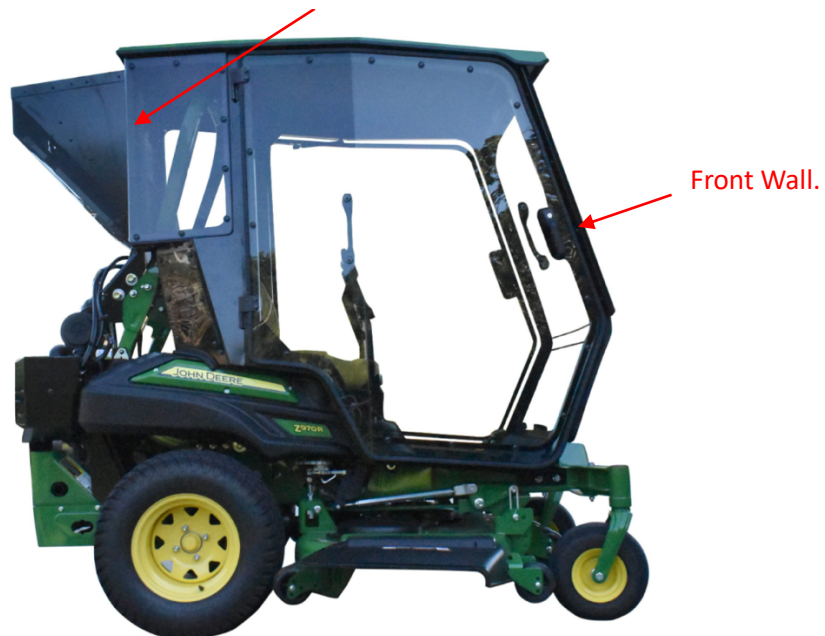


1[e] wherein one or more components of the air conditioning unit define a rear wall disposed opposite the front wall,

As shown below, the air conditioning unit is mounted directly behind the operator's seat in the interior volume and the vents and unit define a rear wall opposite the front wall.



Rear Wall / Air Conditioning Unit.



Front Wall.

1[f] wherein the cab assembly includes a lower frame adapted to be secured to the mower frame such that when the lower frame is secured to the mower frame the front wall is disposed in front of an operator's seat of the lawn mower and the rear wall is disposed behind the operator seat;

As shown below, when the cab is mounted on the lawn mower by a lower frame, the front wall is in front of an operator's seat and the rear wall is behind the operator's seat. The lower frame is the lower portion of the cab assembly that is shaped to the riding mower frame and extends around the front and sides of the mower frame. The lower frame is attached to the mower frame at least by "front mounts" located near the front wheels of the mower.

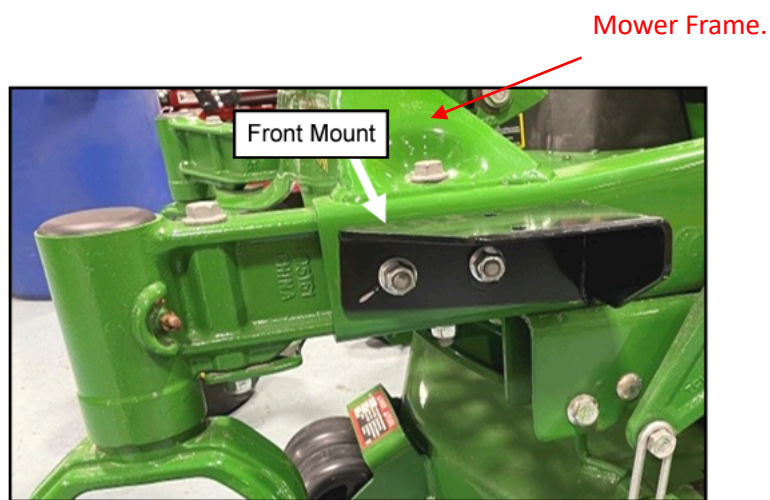
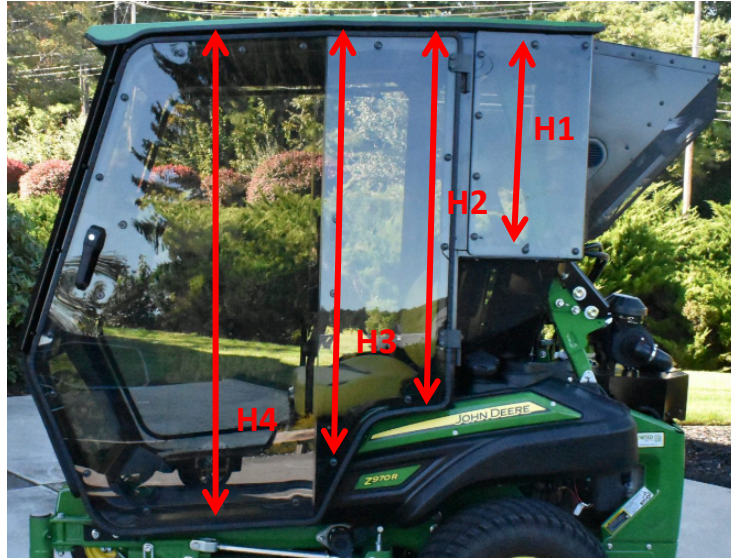


Fig. 1.22b (Install Front Mount, Left Side)

1[g] wherein the cab assembly has a height that increases as the cab assembly extends from the rear wall to the front wall.



As shown, H1 is smaller than H2. H2 is smaller than H3. H3 is smaller than H4. Therefore, the cab has a height that increases as the cab extends from the rear wall to the front wall.

US 10,632,815	Curtis Cab's "Premium AC Cab For John Deere Z970R"
3. The system of claim 1, wherein the first sidewall and the second sidewall each have a first end proximal to the front wall and a second end opposite the first end, wherein a height of the first sidewall and the second sidewall decreases as each sidewall extends from the first end to the second end.	The image shows a side view of a green John Deere Z970R tractor cab. Four vertical red double-headed arrows indicate the height of the sidewall at different points along its length. The first arrow, labeled H1, is at the front of the cab. The second arrow, labeled H2, is slightly behind H1. The third arrow, labeled H3, is further back. The fourth arrow, labeled H4, is at the very back of the cab. The height of the arrows decreases from H1 to H4. A red arrow points to the front of the cab with the label 'First End.' and another red arrow points to the back of the cab with the label 'Second End.' As the sidewall extends from a first end proximal to the front wall to the second end proximal to the rear wall, the height of the sidewall decreases. This limitation is met as H1 is greater than H2, H2 is greater than H3, and H3 is greater than H4.

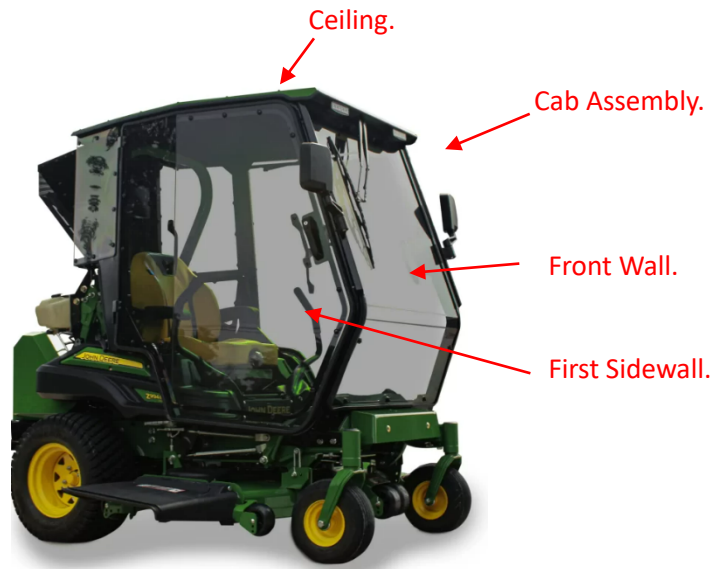
US 10,632,815	Curtis Cab's "Premium AC Cab For John Deere Z970R"
4. The system of claim 1, wherein at least one of the first sidewall, the second sidewall, and the front wall is semi-transparent.	A photograph of a green John Deere Z970R riding lawn mower with a Curtis Cab. The cab features a large, clear front windshield and transparent side walls. A red arrow points to the side wall with the text "Clear material for front and side walls." The mower is parked on a paved surface with greenery in the background. The front wall and both sidewalls of the cab are transparent to allow an operator to see through the cab.

‘815 Patent Claim Chart

US 10,632,815	Curtis Cab's "Premium AC Cab For John Deere Z994R"
1[pre] An enclosure system for a lawn mower, the system comprising:	The Curtis Cab provides an enclosure system for a lawn mower as shown in the photo below.  Enclosure System. Lawn Mower. See, e.g., https://curtisindustries.net/shop/product/premium-ac-cab-for-john-deere-z994r/.

1[a] a cab assembly having a front wall, a first sidewall, a second sidewall, and a ceiling that collectively define an interior volume,

The Curtis Cab contains a cab assembly with a front wall, two sidewalls, and a ceiling defining an internal volume.



1[b] wherein the cab assembly is adapted to secure to a mower frame of the lawn mower such that a user may occupy the interior volume while operating the lawn mower; and

The Curtis Cab is adapted to secure to a lawn mower frame of the lawn mower. This is clearly present as there is a seat for an operator inside the internal volume configured to allow the operator to access the controls of the lawn mower. The mower frame is the preexisting structural frame of the riding lawn mower about which the cab assembly is shaped. The cab is secured to the mower frame by brackets and mounts at least on the front of the mower frame ("Front Mount").



Seat and controls for operator inside interior volume.

Mower Frame.

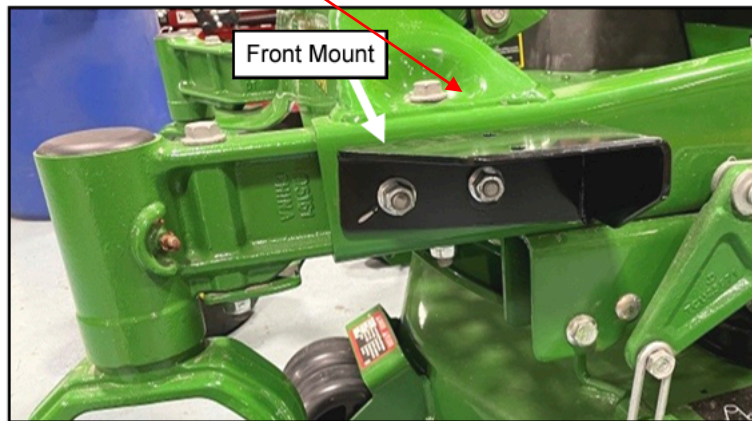
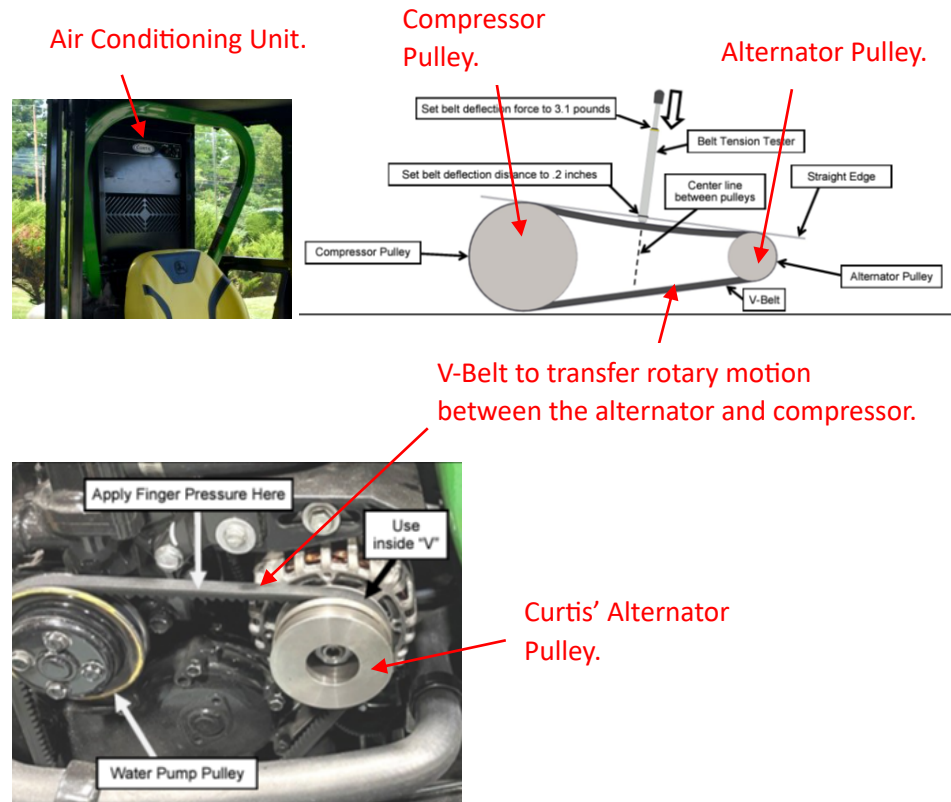


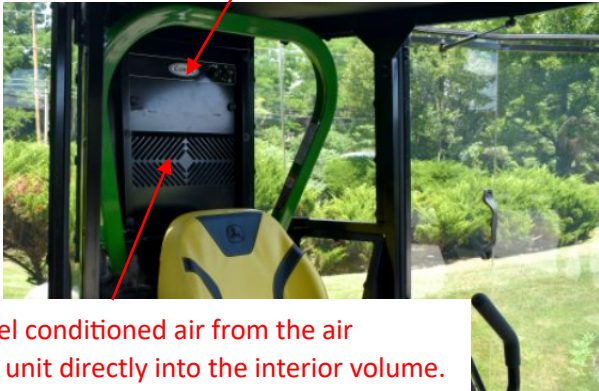
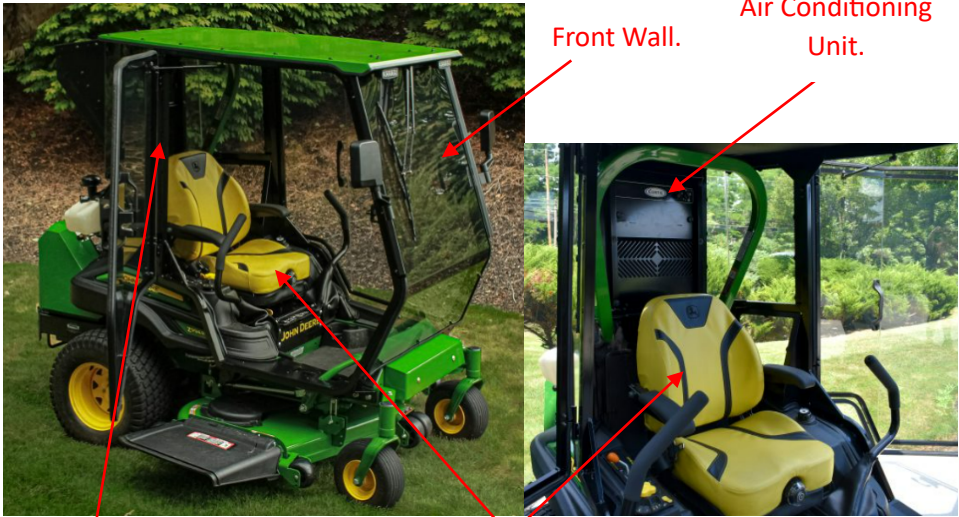
Fig. 1.14b (Install Front Mount, Left Side)

1[c] an air conditioning unit configured to produce conditioned air, wherein the air conditioning unit is adapted to be powered in part by rotary motion transmitted from an engine of the lawn mower,

The below instructional diagram is taken from the installation manual found at: <https://curtisindustries.net/wp-content/uploads/2020/10/John-Deere-Z994R-Premium-Cab-with-AC-1JDZ994RPR-Rev-B.pdf> on June 14, 2023, at 11:40 AM. The below figures and images depict modifying the John Deere alternator pulley to accept an additional v-belt to power the compressor for the air conditioning unit.

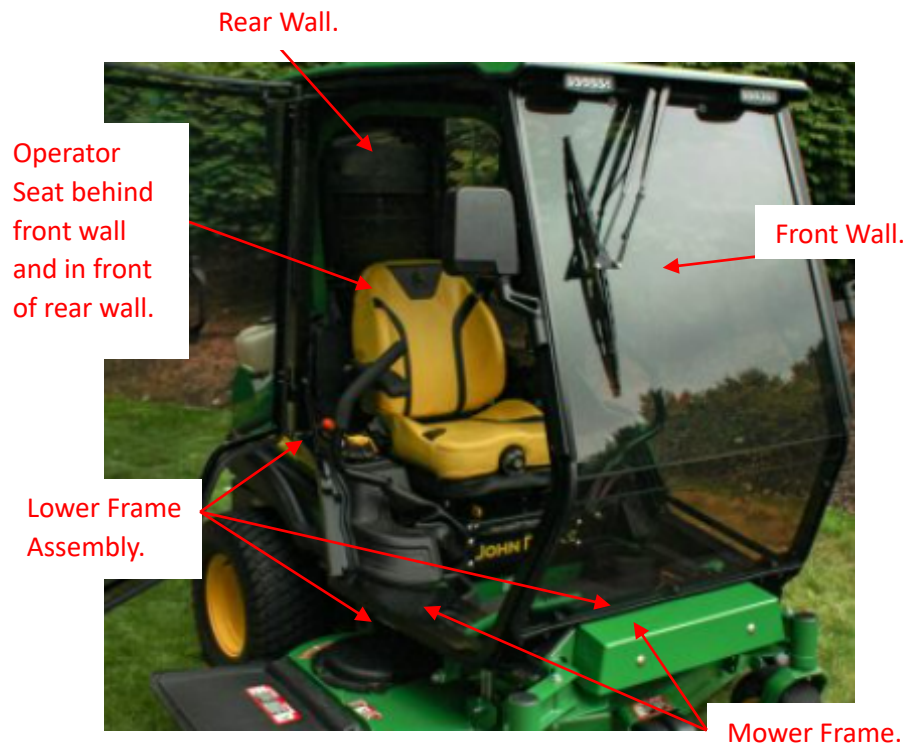


The John Deere mower uses an alternator to convert rotary motion from the engine into electrical energy via a v-belt. The Curtis Cab modifies this system by replacing a single pulley on the alternator with a double pulley. A second v-belt is then used to transfer rotational motion from the alternator to the compressor for the air conditioning unit. Thus, the air conditioning unit is powered, in part, by rotary motion from an engine of the lawn mower.

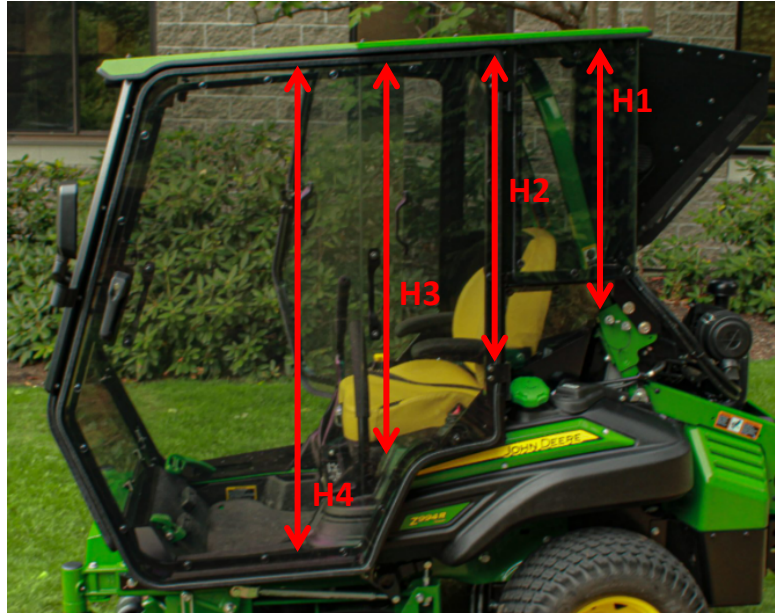
1[d] the air conditioning unit being secured in relation to the cab assembly such that conditioned air produced by the air conditioning unit is emitted directly into the interior volume,	The air conditioning unit is mounted directly behind the seat and blows air directly into the interior volume. Air Conditioning Unit.  Vents to expel conditioned air from the air conditioning unit directly into the interior volume.
1[e] wherein one or more components of the air conditioning unit define a rear wall disposed opposite the front wall,	As shown below, the air conditioning unit is mounted directly behind the operator's seat in the interior volume and the vents and unit define a rear wall opposite the front wall.  Front Wall. Air Conditioning Unit. Operator Seat. Rear Wall / Air Conditioning Unit.

1[f] wherein the cab assembly includes a lower frame adapted to be secured to the mower frame such that when the lower frame is secured to the mower frame the front wall is disposed in front of an operator seat of the lawn mower and the rear wall is disposed behind the operator seat; and

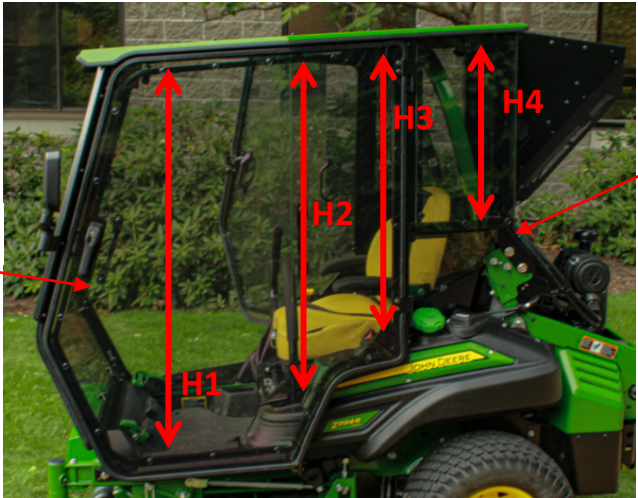
As shown below, when the cab is mounted on the lawn mower by a lower frame, the front wall is in front of an operator's seat and the rear wall is behind the operator's seat. The lower frame is the lower portion of the cab assembly that is shaped to the riding mower frame and extends around the front and sides of the mower frame.



1[g] wherein the cab assembly has a height that increases as the cab assembly extends from the rear wall to the front wall.



As shown, H1 is smaller than H2. H2 is smaller than H3. H3 is smaller than H4. Therefore, the cab has a height that increases as the cab extends from the rear wall to the front wall.

US 10,632,815	Curtis Cab's "Premium AC Cab For John Deere Z994R"
3. The system of claim 1, wherein the first sidewall and the second sidewall each have a first end proximal to the front wall and a second end opposite the first end, wherein a height of the first sidewall and the second sidewall decreases as each sidewall extends from the first end to the second end.	 The diagram shows a side view of a green tractor cab. Four vertical red double-headed arrows indicate the height of the sidewall at different points from front to back. The first arrow, labeled H1, is at the front. The second arrow, labeled H2, is slightly behind H1. The third arrow, labeled H3, is further back. The fourth arrow, labeled H4, is at the very back. A red arrow points to the front of the cab with the label 'First End.' and another red arrow points to the back of the cab with the label 'Second End.' As the sidewall extends from a first end proximal to the front wall to the second end proximal to the rear wall, the height of the sidewall decreases. This limitation is met as H1 is greater than H2, H2 is greater than H3, and H3 is greater than H4.

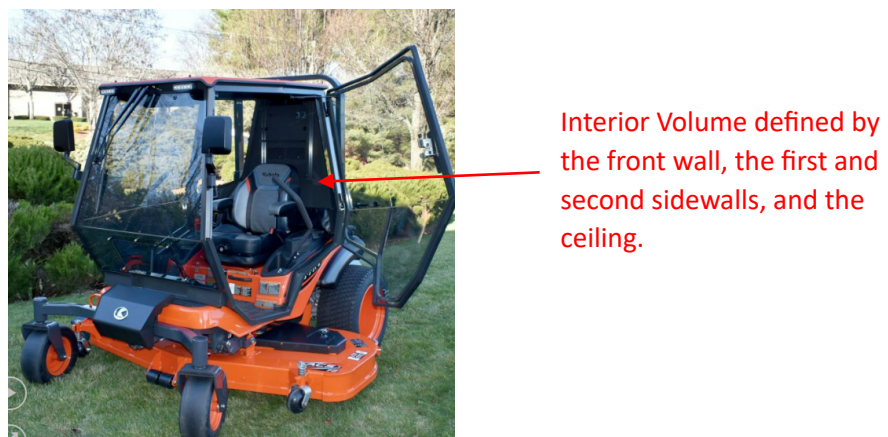
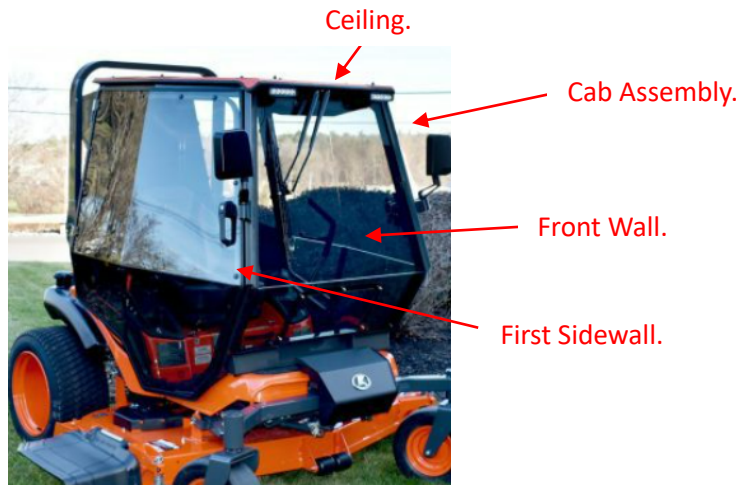
US 10,632,815	Curtis Cab's "Premium AC Cab For John Deere Z994R"
4. The system of claim 1, wherein at least one of the first sidewall, the second sidewall, and the front wall is semi-transparent.	 Clear material for front and side walls. The front wall and both sidewalls of the cab are transparent to allow an operator to see through the cab.

‘815 Patent Claim Chart

US 10,632,815	Curtis Cab's "Premium AC Cab For Kubota ZD1211"
1[pre] An enclosure system for a lawn mower, the system comprising:	The Curtis Cab provides an enclosure system for a lawn mower as shown in the photo below.  Enclosure System. Lawn Mower. See, e.g., https://curtisindustries.net/shop/product/premium-ac-cab-for-kubota-zd1211/.

1[a] a cab assembly having a front wall, a first sidewall, a second sidewall, and a ceiling that collectively define an interior volume,

The Curtis Cab contains a cab assembly with a front wall, two sidewalls, and a ceiling defining an internal volume.



1[b] wherein the cab assembly is adapted to secure to a mower frame of the lawn mower such that a user may occupy the interior volume while operating the lawn mower; and

The Curtis Cab is adapted to secure to a lawn mower frame of the lawn mower. This is clearly present as there is a seat for an operator inside the internal volume configured to allow the operator to access the controls of the lawn mower. The mower frame is the preexisting structural frame of the riding lawn mower about which the cab assembly is shaped. The cab is secured to the mower frame at least by bolts in the floorboard of the mower frame.



Seat and controls for operator inside interior volume.

Mower Frame.

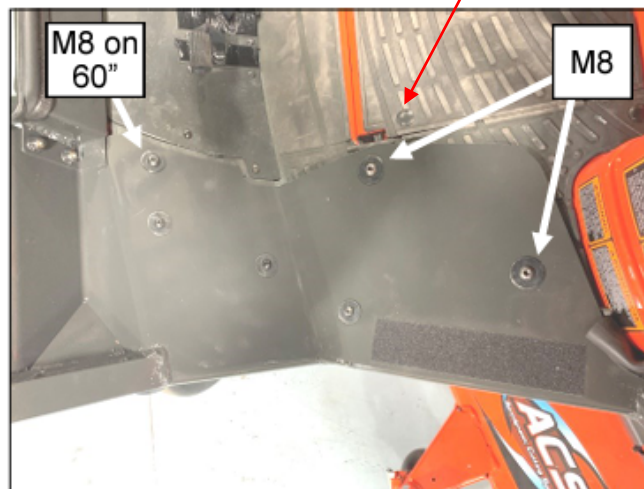
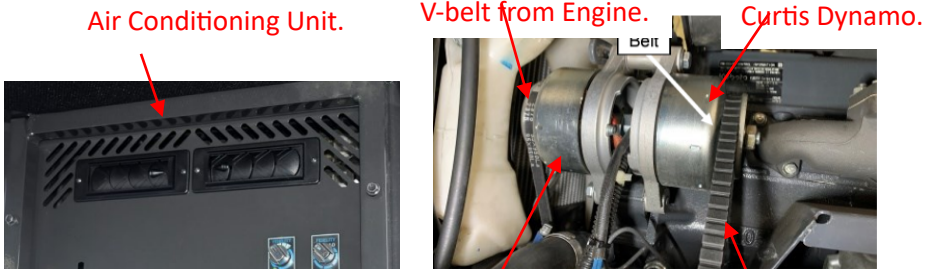
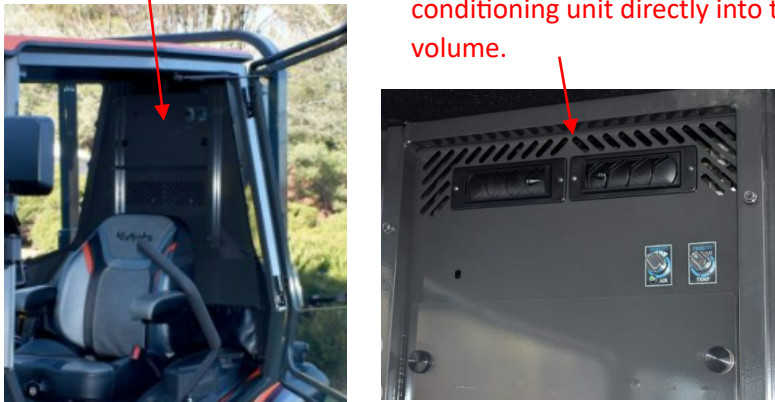


Fig. 5.9 (Install Floorboard Bolts)

1[c] an air conditioning unit configured to produce conditioned air, wherein the air conditioning unit is adapted to be powered in part by rotary motion transmitted from an engine of the lawn mower,	The below instructional diagram is taken from the installation manual found at: https://curtisindustries.net/wp-content/uploads/2020/10/Kubota-ZD1211-Premium-Cab-with-AC-1KUBZD1211PR-MFG-Codes-1744493-1799376-Rev-K.pdf on June 14, 2023, at 11:19 AM. The below figures and images depict modifying and installing an additional dynamo to the Kubota mower to power a compressor for the air conditioning unit.  Air Conditioning Unit. V-belt from Engine. Curtis Dynamo. Fig. 6.5 (Install Belt and Tension) Kubota Dynamo. V-Belt to power Compressor for Air Conditioning Unit. The Kubota mower uses a dynamo to convert rotary motion from the engine into electrical power. The Curtis Cab modifies the Kubota dynamo to provide space for an additional v-belt to power an air compressor using the rotary motion from the engine. Thus, the air conditioning unit is powered, in part, by rotary motion from an engine of the lawn mower.
1[d] the air conditioning unit being secured in relation to the cab assembly such that conditioned air produced by the air conditioning unit is emitted directly into the interior volume,	The air conditioning unit is mounted directly behind the operator's seat and blows air directly into the interior volume.  Air Conditioning Unit. Vents to expel conditioned air from the air conditioning unit directly into the interior volume.

1[e] wherein one or more components of the air conditioning unit define a rear wall disposed opposite the front wall,

As shown below, the air conditioning unit is mounted directly behind the seat in the interior volume and the vents and unit define a rear wall opposite the front wall.

Front Wall.



Rear Wall / Air Conditioning Unit.

Operator's Seat.

1[f] wherein the cab assembly includes a lower frame adapted to be secured to the mower frame such that when the lower frame is secured to the mower frame the front wall is disposed in front of an operator's seat of the lawn mower and the rear wall is disposed behind the operator seat;

As shown below, when the cab is mounted on the lawn mower by a lower frame, the front wall is in front of an operator's seat and the rear wall is behind the operator's seat. The lower frame is the lower portion of the cab assembly that is shaped to the mower frame and extends around the front and sides of the mower frame.



1[g] wherein the cab assembly has a height that increases as the cab assembly extends from the rear wall to the front wall.



As shown, H1 is smaller than H2. H2 is smaller than H3. H3 is smaller than H4. Therefore, the cab has a height that increases as the cab extends from the rear wall to the front wall.

US 10,632,815	Curtis Cab's "Premium AC Cab For Kubota ZD1211"
3. The system of claim 1, wherein the first sidewall and the second sidewall each have a first end proximal to the front wall and a second end opposite the first end, wherein a height of the first sidewall and the second sidewall decreases as each sidewall extends from the first end to the second end.	The image shows a side view of a tractor cab. Four vertical red double-headed arrows indicate the height of the sidewall at different points: H1 at the front, H2 slightly behind H1, H3 further back, and H4 at the rear. The height clearly decreases from H1 to H4. Red arrows point to the front and rear of the cab, labeled 'First End.' and 'Second End.' respectively. As the sidewall extends from a first end proximal to the front wall to the second end proximal to the rear wall, the height of the sidewall decreases. This limitation is met as H1 is greater than H2, H2 is greater than H3, and H3 is greater than H4.

US 10,632,815	Curtis Cab's "Premium AC Cab For Kubota ZD1211"
4. The system of claim 1, wherein at least one of the first sidewall, the second sidewall, and the front wall is semi-transparent.	 Clear material for front and side walls. The front wall and both sidewalls of the cab are transparent to allow an operator to see through the cab.