Open Top Conversion for 9900 Self-Propelled Peanut Combine
FORM 0348
2nd Edition

AMADAS

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Overview
This form provides you with the instructions for performing the 9900 Self-Propelled Peanut Combine open top conversion. Converting your combine to an open top model has the following benefits:

- Combine maintenance is easier, due to the accessibility of parts.
- The engine performs more efficiently.
- The combine has improved thrashing ability because of the more open design.

This conversion involves removing certain parts and adding some additional items. It is extremely important that you carefully read and follow all instructions for this conversion, paying particular attention to the safety instructions and warnings. Following instructions will not only help ensure your safety, but also help to make sure no damage is done to the machine and that the combine will perform efficiently when the procedure is completed.

Safety

It is essential to your safety and the safety of others that you read and follow all safety information!!

Review Chapter 2, Safety, in your 9900 Operator's Manual before performing the conversion. Pay particular attention to the following:

- Do NOT perform this conversion with the combine operating under any circumstances.
- Make sure all power and operator controls are disengaged.
- Make sure the battery ground cable is disconnected.
- Follow all safety procedures for handling hydraulic hoses.
- Follow procedures for safe lifting. Use a helper when indicated.
- When removing or reinstalling the basket, avoid power lines and follow all safety instructions about basket height.

Before Beginning
Before you start the conversion:

- Please check to make sure you have all of the parts listed on the packing sheet. If anything is missing or damaged, please contact your dealer.

- IMPORTANT! Make sure the combine gear is in PARK. Shut off the engine and remove the key. Make sure the key is safely stored and that the combine cannot be accidentally started before the conversion is completed.
Conversion Steps

A. Remove Basket

⚠️ DANGER

Be aware of the combine height when removing the basket. Contact with electrical lines can lead to serious injury or death!

1. Remove the fasteners securing the basket assembly to the combine frame.

2. Disconnect the hydraulic hoses from the basket.

3. Disconnect all electrical wiring from the basket.

4. Remove the basket assembly from the combine. Use the supports shown below to lift the basket.

5. Support the basket assembly on jack stands so that you can access the cross braces (see next photo).

⚠️ WARNING

Do NOT attempt to lift the basket without proper assistance and equipment.
B. Remove Cross Braces
Remove and discard the following parts from the basket assembly. These parts are shaded in Illustration 1:

**NOTE!** Adequately support the basket assembly before you begin the disassembly.

#5  92748 Short basket strut

#10  20624 Main basket pin
#11  92737 Subframe basket brace
#14  20526 Snap ring bushing
#15  2205 Straight grease fitting
#17  20512 Retaining ring

**IMPORTANT!** Note that two of the #5 basket struts (AMADAS part #92748) are NOT removed.

Illustration 1
C. Install New Cross Brace

1. In the Conversion Kit, locate AMADAS parts #61639, 20684 (#2 and 1 in Illustration 2).

2. Install the brace as shown in the illustration with ½ * 3 x 2¾” bolts included in the conversion kit.

3. Insert the pins as shown and install with ½ - 13 x 2 ½” bolts included in the conversion kit.

NOTE! Grease the pins with a good-grade multi-purpose grease before installing.
D. Loosen Idler Tension
Refer to Illustration 3 below. The right side of the combine is shown without safety shields.

1. Loosen the idler indicated (part #31, AMADAS part #51473).

2. Remove the belt indicated (#47, AMADAS part #4C148).
E. Remove Covers
1. Referring to Illustration 4, remove the following cover parts and discard them. The parts are shaded in the drawing.

#20 124143 5th cylinder cover gusset

#21 124100 Upper transition divider
#22 124139 5th cylinder cover
#23 124142 5th cylinder cover gusset
#24 124141 4th cylinder cover gusset
#25 124140 4th cylinder cover
E. Remove Covers, Cont’d
Referring to Illustration 5, remove the bolts from the separator cylinder cover mounting panel (AMADAS part #124084, #13 in Illustration 5) and remove the separator cylinder cover (AMADAS part #124085, #9 in Illustration 5).

NOTE! You can discard the cover, but keep the bolts removed as they will be used to install a new part.
F. Remove Shielding
Remove and discard parts #124467 and 124370 (#19 and #20 in Illustration 6).

Illustration 6

Retain #28, 30, 31, 32, and 33 as they will be needed later.
G. Cover Main Jack Shaft

**NOTE**: *Illustration 7* shows parts already installed on your combine.

1. Referring to *Illustration 7*, remove the retaining bolt that connects the u-joint to the gearbox (#12 in illustration, AMADAS part #10584).

2. Loosen bolts on the 4-hole flange bearing (#7 in illustration, AMADAS part #3131).

3. Pull the main jack shaft (#14 in illustration, AMADAS par #10727) and u-joint off of the gearbox and partially out of the combine.
G. **Cover Main Jack Shaft**, cont’d

4. Locate AMADAS parts #93420, 93419, and 93421 (#20, 21, 22 in *Illustration 8*) in your Conversion Kit.

5. Pull the inner jack shaft shield (#21 in *Illustration 8*; AMADAS part #93420) over the main jack shaft pulled loose in Step 3.

6. Pull the outer jack shaft shield (#22 in *Illustration 8*; AMADAS part #93421) over the inner jack shaft shield (#21).
G. **Cover Main Jack Shaft**, cont’d

7. Remove the gearbox mounting bolts and discard.

8. Install the jack shaft shield plate (#20, AMADAS part #93419) as shown in the photo below. Use the 3/8 x 3 ½" bolts provided with the Conversion Kit.

9. Refasten the u-joint to the gearbox using the retaining bolt removed earlier. Grease u-joint with good multi-purpose grease.

10. Bolt the outer shield flange (part # 22 in *Illustration 8*, AMADAS part #93421) to the jack shaft shield plate. Use the 3/8 x 1” screws provided with the kit.

11. Using the 5/8 x 4 ½” bolts provided, bolt the 4-hole flange bearing (#7 in *Illustration 7*, AMADAS part #3131) along with the flange of the inner jack shaft shield to the outer wall of the combine.

12. Reinstall the belt and tighten the idler as shown in *Illustration 9* on the next page.
G. Cover Main Jack Shaft, cont'd

Illustration 9

Tighten idler #31

Reinstall belt #47
**H. Install Under Basket Seals**

1. Locate the rear seal panel, AMADAS part #126714, (#23, Illustration 10) in your Conversion Kit.
H. Install Under Basket Seals, Cont’d

2. Using the bolts removed when you removed the separator cylinder cover (AMADAS part #124085), install the rear seal panel (AMADAS part #126714, #23 in Illustration 10) in the bolt holes on the separator cylinder cover panel (AMADAS part #124084, #10 in Illustration 11).
H. Install Under Basket Seals, Cont’d
3. Referring to the photos and using the rear seal panel as a template, drill holes in the frame at each end. Make sure the panel is vertical.

4. Install the 5/16 x ¾” screws provided in the conversion kit to secure the panel.
H. Install Under Basket Seals, Cont’d

5. Locate AMADAS parts #4898, 93348, and 126718, (#1, 18, and 26 in *Illustration 12*) in your conversion kit.

6. Install the right front seal panel (#26 in *Illustration 12*) onto #23 using 5/16 x ¾” bolts provided in your conversion kit. Use existing bolt holes.
H. Install Under Basket Seals, Cont’d
7. Drill holes to bolt the right seal front panel to the upper frame channel as in the photo below. Use 5/16 x ¾” bolts provided in your conversion kit.

8. Install the gasket and hold down bar (AMADAS parts #4898 and 93348, #1 and 18 in Illustration 12) into the right seal front panel using ¼ x 1” bolts provided in the conversion kit. See the photos below.
H. Install Under Basket Seals, Cont’d
9. Locate AMADAS parts #4900, 93345, and 126715 (#3, 15, and 24 in Illustration 13) in your conversion kit.
H. **Install Under Basket Seals**, Cont'd

10. Refer to the photo on this page. Bolt the left rear seal panel (part #126715) in the existing bolt holes of the rear seal panel installed earlier. Use 5/16 x ¾" bolts included in your kit.

11. Using the left rear seal panel as a template, drill three holes in the frame as shown and install 5/16 x ¾" bolts included in your kit.

12. Install the gasket and belting hold down bar (AMADAS parts #4900 and 93345, #3 and 15 in *Illustration 13*) on the left rear seal panel using ¼ x ¾" bolts provided in your kit.
H. Install Under Basket Seals, Cont’d

13. Locate AMADAS parts #4903 and 93346 (#6 and 16 in Illustration 14) in your conversion kit.
H. Install Under Basket Seals, Cont’d

14. As shown in the photo, position the gasket and hold down bar (AMADAS parts #4903 and 93346 (#6 and 16 in Illustration 14). Drill holes for mounting. Use ¼” x 1” bolts included in your conversion kit.
I. Install Front Seal
1. Locate AMADAS parts #126718, 127200, and 80372 (#25, 30, and 37 in Illustration 15) in your conversion kit.
I. **Install Front Seal, Cont’d**

2. Insert the cage nuts supplied with your conversion kit around the entire front seal panel (part #126718) in the pre-drilled holes, as shown in the photo.

3. Apply weather stripping foam (part #80372) around entire inside edge of panel, as shown in the next photo.

4. Punch holes in weather stripping to access cage nuts as in the photo below.

5. Center the cab rear access panel (part #127200) in the front seal panel as shown in the photo.

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**CAUTION**

When the front seal panel and rear access door are fastened together, the assembly is heavy. **DO NOT ATTEMPT TO LIFT THE ASSEMBLY.** Use a hoist to install it on the combine. If a hoist is not available, first install the panel and then install the rear access door after the panel is in place on the combine.
1. **Install Front Seal**, Cont’d

6. Install the 5/16” x 1” bolts provided in your conversion kit as shown in the photo below.

7. Using the hoist, set the front seal assembly in place on the combine as in the next two photos. The notched portion of the panel is on top. Bolt the panel to the top of the 3rd and 4th picking cylinder transition (AMADAS part #124106, #13 in Illustration 16 on the following page). Use ¼” x ¾” bolts included in your conversion kit.
I. Install Front Seal, Cont’d

8. Measure 14 ¼” in from the edge of the combine frame on each side as in the photo. Note that the panel must be vertical.

9. Drill holes and install 5/16” x 1” bolts included in the conversion kit on both sides of the panel.
I. Install Front Seal, Cont’d

10. Locate AMADAS parts #127199, 127203, and JAH141774 (parts #29, 31, and 38 in Illustration 17) in your conversion kit.
I. **Install Front Seal, Cont'd**

11. Mount the cab rear dust shield plate (part #127199) to the access door assembly as shown in the photo below. Use the pre-drilled holes in the access door assembly and 5/16” x ¾” bolts included in the conversion kit.


13. Measure ½” from the edge of the frame and attach the gasket plate (part #127203) to the frame as shown in the next photo. You will need to drill 9/32 holes in the frame, using the plate as a template. Use 5/16” x ¾” self-tapping screws included in the conversion kit.

14. Snap the cab rear seal (part #JAH141774) into place over the ridge on the gasket plate. See next photo.
J. Install Stripper Bar

NOTE! The same steps are performed for both the left sidewalls of the combine. Instructions are given for the left sidewall; perform the same steps for the right after you have finished the left. Photos and sketches are shown of both.

1. On the left sidewall of the combine, measure 9 5/8" down from the bottom of the channel and 2 ½" in from the wall. Refer to Illustration 18 and the photo on the next page for the exact location.

2. Drill a 1 1/16" hole at the measured spot.

![Illustration 18](image-url)
J. **Install Stripper Bar**, Cont’d

3. Center the bushing included in your conversion kit, AMADAS part #93178AA, over the drilled hole. Weld it solidly. Make sure the center of the bushing is free of splatter.

**CAUTION**

Disconnect the battery ground cable before welding.
J. Install Stripper Bar, Cont’d

Illustration 19

Right sidewall

Top

Bottom of channel

9 5/8"

Drill 1 1/16" hole

2 1/2"
J. Install Stripper Bar, Cont’d

Right sidewall

Drill 1 1/16” hole then weld bushing

2 3/8"

9 5/8”
J. Install Stripper Bar, Cont’d

4. Locate AMADAS parts #6047, 7008, 20745, 60780, 61623, 61928, 61929, 127885, G128003, G180160, and G180162 (parts #7, 8, 9, 10, 11, 12, 13, 33, 34, 34 and 36 in Illustration 20).
J. **Install Stripper Bar**, Cont’d

5. Refer to *Illustration 21* below and the photos on the next page.

6. Insert the right end of the stripper bar (#11 below) into the drilled hole in the right sidewall of the combine. Hold the stripper bar level against the right sidewall.

7. Insert the breast spring adjusting shaft (#13 below) through the tube on the left end of the stripper bar.

8. Assemble the spacer (#9 below) over the breast spring adjusting shaft.

**NOTE!** This sets the spring tooth position.

9. Complete the assembly of the breast spring adjusting shaft by inserting #36 through #7, #8, #11 and the mounting plate on the breast spring adjusting shaft. Use 7/16-14 serrated flange nuts (#34 below) to secure the assembly.

**NOTE!** Check the spring spacing with the cylinder (see photos on next page).
J. Install Stripper Bar, Cont’d
J. Install Stripper Bar, Cont’d
10. Referring to Illustration 22, weld AMADAS part #93179DD to the outside edge of the combine wall. Measure 2 ¾” down from the bottom of the horizontal channel and 2 ¼” out from the vertical channel.

Illustration 22
J. Install Stripper Bar, Cont’d

11. Attach the stripper bar adjustment handle (AMADAS part #61928, #12 in Illustration 21) over the spacer sticking through the combine side wall.

12. Install the stripper bar adjustment plate (AMADAS part #127885, #33 in Illustration 23) as indicated.

13. Screw the tee knob (AMADAS part #60780, #10 in Illustration 23) to the stripper bar adjustment handle in front of the stripper adjustment plate.
J. **Install Stripper Bar, Cont’d**

14. Bolt the stripper bar adjustment plate to the platform as shown in the photo below.

![Image showing the installation of the stripper bar adjustment plate](image-url)
K. Install Shielding

1. Locate AMADAS parts #127888 and 127889 (#29 and 30 in Illustration 24) in your conversion kit.

2. Install the left front door bracket (#29) and door mount brace (#30) by assembling as shown in the illustration. These parts replace the old shielding parts that were removed and discarded. Use the fasteners retained when the shielding was removed.

3. Reinstall the flat end bolts (AMADAS part #1794, #3 in Illustration 24) as shown in the illustration.
L. Reinstall Basket Assembly

1. Using the fasteners that originally held the basket, reinstall the basket in the same position. Use the lifting eye shown in the photo to lift the basket.

2. Reconnect electrical wiring and hydraulic lines.

DANGER

Be aware of the combine height when reinstalling the basket. Contact with electrical lines can lead to serious injury or death!

Do NOT attempt to lift the basket without proper assistance and equipment.
M. Lift Basket and Insert Stop
Lift the basket and insert the cylinder stop; follow directions for your type of combine.

**DANGER**
Make sure the cylinder stop is set, and the machine is turned off with the key removed from the ignition BEFORE attempting to install the basket seals.

9900 SP Combine with Dump Bin
1. Using combine controls, lift the basket until fully extended as shown. **TURN OFF THE ENGINE AND REMOVE THE KEY.**

2. Locate the blue stop pin. The pin was stored in the storage box behind the passenger seat when the combine was delivered from the factory.

3. Insert the pin in place as shown in the photos. You will need to step into the combine opening to correctly insert the pin. Make sure the pin is inserted through both openings in the hinge as shown in the second photo.
M. Lift Basket and Insert Stop, Cont’d.

9900 SP Combine with OCS
1. Using combine controls, lift the basket until fully extended as shown in the photo. **TURN OFF THE ENGINE AND REMOVE THE KEY.**

2. Push the cylinder stop fully into place as shown in the photo below. Use the ladder to access the stop.
N. Install Basket Seals
1. Locate the following parts in your conversion kit:

- #2 4899 Rear basket seal
- #4 4901 Basket cross brace seal
- #5 4902 Front basket seal
- #17 93347 Belting hold down bar
- #19 93349 Belting hold down bar
- #27 126727 Front panel stiffener plate
- #28 126746 Rear panel stiffener plate
N. Install Basket Seals, Cont’d

2. Refer to Illustration 26 below. The rear basket seal is fastened to existing holes in the rear seal panel (#23), which was installed before the basket assembly was reinstalled. Parts #2, 4, 19, and 28 are installed together using one set of ¼” x 1” fasteners included in your conversion kit.

3. Fit the basket cross brace seal (#4) to the opening on the rear seal panel (#23).

4. Place the rear panel stiffener (#28) over the seal, lining up holes.

5. Fit the rear basket seal (#2) and the belting hold down bar (#19) over the rear panel stiffener, lining up holes.

6. Fasten all pieces to the rear seal panel with the ¼” x 1” fasteners.

Illustration 26
N. **Install Basket Seals**, Cont’d

7. Refer to *Illustration 27* below. The front basket seal is fastened to existing holes in the cab access panel assembly, which was previously installed. Parts #4, 5, 17, and 27 are installed together using one set of ¼” x 1” fasteners included in your conversion kit.

8. Fit the basket cross brace seal (#4) to the opening on the cab access panel assembly.

9. Place the front panel stiffener (#27) over the seal, lining up holes.

10. Fit the front basket seal (#5) and the belting hold down bar (#15) over the front panel stiffener, lining up holes.

11. Fasten all pieces to the cab access panel assembly with the ¼” x 1” fasteners. See photos on next page.
Right front installed (shown without basket for clarity)

Right rear installed (shown without basket for clarity)
### O. Complete Installation

1. Re-inspect your work.

2. Check all fasteners and belts for tightness.

3. Remove the stop pin or cylinder stop.

4. Lower the basket and check the seals.

5. Adjust as necessary.