



The 812A Combine Header Adapter is now available from RCI Engineering for the John Deere 8000-Series Self-Propelled Forage Harvesters.

Intended Use:

The 812A is intended to be used to adapt John Deere C-Series, 40-Series, and 90-Series corn headers. This adapter is intended for non-chopping and chopping headers of up to 12 rows in size. (12-Row Chopping Heads are approved for use with the heavy-duty drive on the SPFH starting in 2017.)

Product Highlights:

- Mechanical Drive for reliable operation.
- Dual gearboxes are used to power the headers in demanding conditions.
- A cross drive shaft is standard equipment for dual drive headers.
- Feed roll allows for installation of replaceable paddles for long life.
- Extra plates and plastic filler pieces are standard equipment so each adapter can be used with both standard and wide forage harvesters.
- Filler plates provide for the lateral tilt of the forage harvester to operate normally.
- Jack stands allow for the adapter to be removed independently or retained on the corn head on a trailer for transport.
- No modifications of the corn head are needed for use on the forage harvester with the exception of older corn headers. Older corn headers need to be updated to use PTO driveshafts (Contour Master Style) to fit the adapter. Contact your John Deere dealer for more information.
- Adapter is compatible with the quick-attach system of the 8000-Series SPFH.
- Adapter is compatible with all tire configurations and spacings of the 8000-Series SPFH.

8000-Series Highlights for Combine Headers:

- Electrical controls for the header operate for the electrical system of the corn head.
- Hydraulic controls for the header operate for control of the header hydraulics.
- Header speed control provides the operator a variable control for header speed for various conditions.
- Quick-Attachment for drives and hydraulic/electrical connections provides for seamless transition from hay pickups and other traditional headers to combine headers and back.
- The use of a recutter screen is not required for quality processing of crop for earlage, but is highly recommended for improved quality of feed. RCI has a recutter screen bundle available for the 8000-Series SPFH. Contact your local John Deere dealer for more information.

Competitive Advantages:

The 812A Combine Header Adapter offers the following advantages over other brands of adapters.

- Unit is compatible with the quick-connect driveline option on the SPFH.
- Feed roll is movable and can be allowed to float if desired for different crop conditions.
- Feed roll bars are replaceable and can use John Deere service parts.
- Unit keeps the main driveline from the base machine at the original angle to keep clearance to the SPFH drive tire to be compatible with all tire options.
 - No need to change drivelines to work with the adapter.
 - Reliability of header drive is higher with RCI adapter than competitive units due to maintaining original driveline angle.
 - **This is the only header adapter approved by John Deere to maintain driveline warranty.**
- Compact unit is easy to store, clean, and install. This also keeps the forward distance of the header to the SPFH minimized for ease of crop flow and header lift capacity.
- Header driveshaft angles are more aligned than with competitive adapters, resulting in greater header driveshaft reliability.
- The unit is compatible with all wheel spacing options of the SPFH. Wheels do not need to be moved to a wide configuration to accommodate the driveline as is the case with competitive units.
 - **Moving wheels side to side on a machine to accommodate a wider driveline angle voids the final drive and transmission warranty on the machine.**
- The cost of the product is the same or lower than that of competitive units once the cost of additional drivelines, adapter pieces, other components, and labor for reconfiguring drive wheels and driveline installation are calculated into the cost.

Model Year 2016 Improvements:

The following improvements have been made on all adapters for MY2016. An update kit is available through RCI for MY2015 machines.

- Feed roll is locked in a raised position from the factory for more throughput of the paddles.
 - The bolt retaining the unit in the raised position can be removed and the feed roll is allowed to float in light crop conditions if needed.
- Seals are added to the side of the feedroll housing to improve the crop accumulation at the sides of the unit.
- Springs are changed to be more adjustable and easily serviced or adjusted. Adjustment should typically not be necessary with the feed roll in the raised position for most crop conditions.
- A driveline shield stop is added at the gearbox for better retention of the PTO shield.
- Shear bolt length has changed for improvement in installation.

Model Year 2017 Improvements:

The following improvements have been made on all adapters for MY2017. The additional parts are available through RCI parts channels for previous model years.

- Shipping Stand added for improved handling.



Competitive Comparison



The 812A Combine Header Adapter offers the following advantages over other brands of adapters.

- Unit is compatible with the quick-connect driveline option on the SPFH.
 - Order additional service parts through John Deere to complete the option as outlined in the marketing bulletin for the adapter.
- Competitors require the removal of the quick-connect driveline and replacement with a new driveshaft, eliminating the option.
- The RCI adapter keeps the input shaft of the drive in the same location as other headers on the forage harvester. Competitive units have a driveshaft location that is moved to the left on the machine.
 - This new angle of driveline is very close to the front left drive tire, requiring the shaft to operate at a steeper angle.
 - This new angle is also very close to the tire, increasing the chance for damage and reliability issues.
 - Competitors recommend moving tires to a wider position for more clearance. This adds cost to the machine and may be disadvantageous with hay pickups.
- Feed roll is movable and can be allowed to float if desired for different crop conditions.
 - Competitive units have fixed feed roll placement, which is not ideal in extreme years when small ears are encountered.
- Feed roll bars are replaceable and can use John Deere service parts.
 - Competitive units require ordering replacements from the manufacturer.
- Compact unit is easy to store, clean, and install. This also keeps the forward distance of the header to the SPFH minimized for ease of crop flow and header lift capacity.
 - Competitive units move the drives out further to the sides and decrease the compactness of the design. This makes it more difficult to work with smaller headers.
- Header driveshaft angles are more aligned than with competitive adapters, resulting in greater header driveshaft reliability.
 - There have been reports of damage to header drivelines with competitive units due to the steep angle of the driveshaft to the header.

- The RCI design uses a second gearbox to bring the header driveshaft up to a normal operation position, common to a combine.
 - A driveshaft powers the RH side at a normal operating position for the header drive. This design is generally more reliable by keeping the header driveline location in the normal operating position, reducing the angle of the header drive shafts and improving function.
- The feedroll housing filler components are built into the RCI adapter.
 - On competitive adapters, the parts are bolted to the SPFH.
 - With competitive adapters, the parts must be removed when changing to other headers.



Competitors are marketing the idea that they can gain 2mph of ground speed with their adapter over the RCI adapter. The RCI adapter used in the comparison did not have the update installed for the raised position of the feed roll. Once this update is installed, RCI observed similar results. Once updated, the limitation of the system is the header output drive horsepower from the base machine. All 8000-Series SPFH need to be configured with the Heavy-Duty Header Drive Option Code 8424 from John Deere for proper function with the adapter.

A competitor is also using a quote from a dealer regarding a competitive adapter. RCI has not done any business with the dealer referenced and has not sold any adapters through the dealer in the claim. The claim may have been made based on hear-say from prototype testing a season or two before production of the RCI adapter and is not based on any RCI production unit.

Competitive Cost Comparison
 RCI 812A Combine Header Adapter
 Prices Effective 11/1/2016

Item	Comments	Competitor	RCI 812A
Base Unit	Base Unit Cost at List Price	\$9,750.00	\$12,997.00
Move Tires	Competitive unit only compatible with wide configuration of tires. 2 hours labor at \$100/hr.	\$200.00	\$0.00
Header Driveshafts	Competitive unit requires ordering new drive shafts for Deere corn heads. 2 units at \$440 each.	\$880.00	\$0.00
Remove Quick Adapter	If SPFH is equipped with Quick Adapter, Remove and order driveshaft. Driveshaft bundle from Deere is BXE10775.	\$2,389.31	\$0.00
Labor	Labor to switch out quick adapter. 2 hours at \$100/hr.	\$200.00	\$0.00
Total Finished Cost		\$13,419.31	\$12,997.00

Repair Costs

The following are costs of common components that are prone to reduced reliability due to angle of driveline on competitive units. RCI Adapters use stock components and angles.

Item	Comments	Competitor	RCI 812A
Header Driveshafts	Competitive unit uses increased driveline angle for Deere corn heads. 2 units at \$440 each from Competitor.	\$880.00	N/A
Driveline to adapter	Competitive adapter uses increased angle of driveline, reducing theoretical reliability.	\$1,737.00	N/A
Total Theoretical Repair Cost		\$2,617.00	N/A

Ordering Information:

RC071285 Adapter, 812A Combine Header* Order Through RCI

* All product features are now standard equipment. Starting in 2016, this product includes parts for both standard and wide body machines and this product is shipped with Feed Roll Bars installed. Additional Deere parts are no longer needed, except if the quick-attach driveline option is used.

- For compatibility with the quick-attach driveline option on the SPFH, also order the following parts through John Deere parts:

Deere Part Number	Description	Qty
LCA113522	Bundle, Quick Attach Drive Coupler	1
F39010175	Ring, 1-3/4 External Snap	1

- Install all parts on the input shaft of the Adapter. See latest Operator Manual for 812A Adapter for more information. For this update bundle and for new machines, these parts are NOT included, and must be ordered separately through the Deere parts system.

IMPORTANT

All 8000-Series Forage Harvesters need to be ordered with the *Feedroll Sealing Kit* from John Deere. For machines ordered without this sealing kit, please contact DTAC. Also, all North American 8000-Series Forage Harvesters are equipped with grain pans. For 8000-Series Forage Harvesters in other markets, verify that grain pans are installed. Contact DTAC for more information.

Starting in MY2016, all 8000-Series Forage Harvesters need to be ordered with the Heavy Duty Header Drive option. The code for this is 8424. This option is also available to be retrofitted to MY2015 machines. Contact John Deere DTAC for more information.

A recutter screen bundle is available from RCI for the 8000-Series Forage Harvesters to provide for improved cut quality, and is recommended for use with the 812A Combine Header Adapter. Contact RCI for more information.

Setup Time:

Approximately 1 hour of setup time is required from shipping configuration to set up to attach to the combine header. Approximately 1/2 hour of time is required to install the header and adapter on the 8000-Series Forage Harvester.

Warranty:

Standard 1 (one) year warranty on all new units from date of sale. All parts, service and warranty matters are handled by RCI Engineering LLC.

RCI Engineering LLC reserves the right to make improvements in design and changes in specifications at any time without notice and without incurring any obligation to install them on units previously manufactured or sold. Specifications, descriptions, and illustrative material herein are as accurate as known at time of publication, but are subject to change without notice.

Visit www.RCIengineering.com for more product information, ordering, and pictures of this bundle.

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RCI Engineering LLC also offers an assortment of attachments for other John Deere hay and forage equipment to improve performance, increase efficiency and to increase machine capabilities in different crop and field conditions.