Axial-Flow® Enhancements Spanning the Years 1977-2013

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Book: Grain Harvesting
Section: Combine Headers
Form No.: GH-2165-13
Replaces: GH-2132-12
Date: November 2013
Axial-Flow History – 1977-2013

Introduction

36 years of Axial-Flow Combine Leadership

In 1977, with the release of the Axial-Flow combine, the harvesting world was introduced to a revolutionary harvesting design, based on five core principles:

- Simplicity
- Grain Quality
- Grain Savings
- Crop Adaptability
- Matched Capacity

Today, 36 years and over 160,000 combines later, it remains the rotary harvesting benchmark. In fact, all other major rotary combine manufacturers combined do not make up the number of Axial-Flow combines produced!

As farming has changed over the years, Case IH engineers continue to update and upgrade the Axial-Flow combine, both to keep pace with changing customer needs and to maximize productivity for any crop, under any condition.

Enclosed in this product information piece are the major improvements to the Axial-Flow combine, organized chronologically. Case IH has developed many of these improvements into combine after-sales support kits, many that can be retrofitted back to the very first Axial-Flow combine!
Axial-Flow History – 1977-2013

1977 Axial-Flow Combine Introduction

When the Axial-Flow combine was introduced to the world in the fall of 1977, it was the culmination of many man-hours of hard work, testing, and engineering. Virtually everything on this new machine was thoroughly examined and re-examined to make it adapt to the many hundreds of different crops it would be required to harvest with efficiency, with a minimum of effort required to adapt to all of these different crops, while maintaining a high standard of quality of the grain it would harvest. Over a million man-hours went into this project. Different configurations were tried, different concepts were tried. When International Harvester produced "the final product," it was decided that one single, longitudinally-mounted rotor offered the most promise. While other manufacturers had experimented with rotary combines, IH went "full-tilt" into the rotary combine business with the Axial-Flow combine.

The introduction of the first 300 Axial-Flow combines occurred in 1977, offering two new models:

• Model 1440 featured a 135-HP, 436 Cu.In. engine, a 24" rotor, with a 145 Bu. grain tank with a sieve cleaning area of 4750 sq. in.
• Model 1460 delivered 170 HP with its 436 Cu.In. engine, a 24" rotor, and offered greater capacity with a 180 Bu. grain tank with a sieve cleaning area of 4750 sq. in.

The first Axial-Flow combines had the following features:
• Manual Hydraulics
• Open Center Hydraulic System - Gear Pump
• Manual and AHHC (Automatic Header Height Control) header controls

Pin Numbers
1440: PIN start U001177
1460: PIN start U001177
Axial-Flow History – 1977-2013

1978 / 1979

Mid-year between 1978 and 1979, a larger model, the 1480 Axial-Flow combine, was introduced:

- Model 1480 featured a 190-HP, 436 Cu. In. engine, a 30" rotor, a 208 Bu. grain tank, and a sieve cleaning area of 6420 sq. in.
- Model 1460 and 1480 Rice Special combines were introduced. Major differences from their "regular grain" counterparts included the following: a special rice rotor, rice tires, long unloading auger, raised grain tank leveling auger, swing-up operator's ladder, a 466 Cu. In. engine in the 1480 model, and the option of equipping with tires or tracks.

Pin Numbers

<table>
<thead>
<tr>
<th>1978</th>
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<tr>
<td>1440: PIN start U001501</td>
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<td>1460: PIN start U001501</td>
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<td>1480: PIN start U001178</td>
<td>1480: PIN start U005501</td>
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- Engine Changes - The model year of 1979 brought about some minor changes to the Axial-Flow combine lineup. The turbocharged engines in the 1460 and 1480 models became "B" series engines, which were the result of some major changes in engine design of the IH 400 series engines. Major changes were involved in the camshaft/lifter area as well as piston/piston ring/sleeve design, and the relocation of the engine breather to the valve cover.

- Alternator Changes - The Niehoff "brushless-style" alternator was released to be installed in conditions where the factory-installed Delco alternator was plugging up from chaff and debris, causing over-heating of the alternator.

- Spin-on Water Separator Fuel Filter - The water separator for the fuel system was changed from a canister-style to a spin-on filter style design.

- Discharge Beater Change - Another change to the Axial-Flow combine was the discharge beater behind the rotor. The previous 4-blade design was replaced by a 3-blade design for better performance.

- The pulley that drives the hydro pump and hydraulic pump belt was changed from a one-piece style to a 2-piece style with a replaceable hub.

- The 820 flexhead was introduced for harvesting of crops very low to the ground. It was available in sizes from 13' to 22 1/2'.
1980

In 1980, the following new features came to the Axial-Flow combines:

- “Bar” or “Key Stock Grates,” for conditions where more aggressive separation was necessary
- Electric fan speed adjustment - A new option allowed the cleaning fan speed to be adjusted from inside the cab. Previously, fan speed was adjusted by turning a knob by the fan speed adjusting sheaves on the right-hand side of the combine.
- Feeder friction disc slip clutch replaced the feeder ratchet clutch - The feeder slip clutch was changed from a "ratchet-style" to a "disc-style" for improved strength.
- New rotor with new cone rear bulkhead
- The design of the shaft speed monitor on the self-propelled models was changed, allowing 7 functions to be monitored.

Production of the pull-type combine, Model 1482, began in 1980. In addition, the new hillside combine, model 1470, was also introduced.

- Model 1482 pull-type combine required a 130hp or larger tractor and was equipped with a 30" rotor and a 245 bu. grain tank. The 1482 threshing/cleaning systems were based on the 1480 self-propelled machine. It was offered with a pickup header, or it could be equipped with a 17 1/2' straight-cut header that was specially designed for the 1482 with its offset header/feeder house throat design.

- Model 1470 Hillside combine had a 210hp IH DT-466 engine, a 24" rotor, and a 145 bu. grain tank, and could handle headers that ranged in size from 20’ to 24’. It offered hydrostatic 4WD capability and could remain level on slopes up to 48% and also had 4-way leveling.

**Pin Numbers**
1440: PIN start U010001
1460: PIN start U012001
1470: PIN start U001180 (Hillside)
1480: PIN start U014001
1482: PIN start U001180 (Pull-type)
1981

1981 heralded the introduction of the 1420 Axial-Flow combine. This combine delivered 112 H.P. from its 358 Cu. In., engine, and featured a 125 Bu. grain tank. The 1420 Axial-Flow combine was introduced as the little member of the Axial-Flow self-propelled line. The 1420 replaced the 715, a conventional combine which was very popular among smaller farmers. The 1420 could handle 4-row heads and straight headers up to 20’. It had a 20” diameter rotor, and had a grain tank capacity of 125 bushels. The 1420 was IH's first combine offering to be equipped with electric-over-hydraulic controls, which utilized electric switches to actuate solenoid-controlled hydraulic valves, replacing levers, knobs, cables, and mechanical linkages used previously.

This year also brought the following improvements to the market:

- Introduction of electro-hydraulic controls
- Three-bladed discharge beater
- 1480 engine and H.P. change (210 H. P. / 466 cu. in.)
- Straw chopper, both factory and field codes (April 1981)
- Two Speed Hydrostatic Drive Motor 1480
- Power guide wheel drives for all models as factory installed option (January 1981)
- Grain Loss Monitor as field attachment only
- Introduction of 900 Series Corn Heads

**Pin Numbers**
- 1420: PIN start U001180
- 1440: PIN start U020001
- 1460: PIN start U022001
- 1470: PIN start U005501 (Hillside)
- 1480: PIN start U024001
- 1482: PIN start U005738 (Pull-type)
1982

1982 brought a horsepower change to the 1420 model, offering 124 HP from the 358 Cu.In. engine. Electric fan speed adjustment was offered on the 1420 in this year, as well as a power-guide rear axle.

Other enhancements introduced in 1982 included the following:

- Automatic feeder cutoff available
- Auto reel-to-ground speed attachment available
- Clean grain auger shaft increased to 1-1/4” on 1440/1460/1480
- Rock trap introduced on 1440/1460/1480

**Pin Numbers**

1420: PIN start U005501
1440: PIN start U030001
1460: PIN start U032001
1470: PIN start U010001
1480: PIN start U034001
1482: PIN start U010001
1983

- In 1983, a new elevator jackshaft was introduced on the 1440, 1460, and 1480 models.

- Final drive shafts changed from a 3-bolt to a 1-bolt design on the 1480 combine.

- A Bosch injection pump replaced the rotary type pump on 1480.

**Pin Numbers**

- 1420: PIN start U010001
- 1440: PIN start U040001
- 1460: PIN start U042001
- 1470: PIN start U012001 (Hillside)
- 1480: PIN start U044001

1984

The Specialty Rotor was introduced in 1984 on Axial-Flow combines.

- Grain gears became standard on all corn combines.

- 2-speed hydro became available on 1460 combines.

- An improved steering axle was introduced, with new rims, spindles, and hubs.

- The engagement and disengagement of the rear-wheel assist was also revised in 1984.

**Pin Numbers**

- 1420: PIN start U020001
- 1440: PIN start U050001
- 1460: PIN start U052001
- 1470: PIN start U020001
- 1480: PIN start U054001
1985

- Mufflers were eliminated on 1460 and 1480 combines in 1985.

- A one-piece forged final drive axle assembly was introduced.

- The rock trap beater changed from a 4-blade design to a 3-blade design, the key stock was welded on left-hand end, and thicker beater blades were used.

- Rotor kickers became standard equipment.

- A third lift cylinder became available on the 1440 combine.

**Pin Numbers**
1420: PIN start U030001
1440: PIN start U060001
1460: PIN start U062001
1470: PIN start U020001
1480: PIN start U064001
1986

With 1986 came the introduction of the 1600 Series Axial-Flow combines.

- The 1620 combine featured a 124 H.P., 358 Cu.In. engine and a 125 Bu. grain tank.
- The 1640 combine had a 150 H.P., 466 Cu.In. engine and a 145 Bu. grain tank.
- The 1660 combine offered a 180 H.P., 466 Cu.In. engine and a 180 Bu. grain tank.
- The 1680 combine had a 225 H.P., 466 Cu.In. engine, with a 210 Bu. grain tank.

This year brought the following enhancements to the Axial-Flow heritage:

Capacity increases:
- 70% on 1640 and 1660 combines
- 25% on 1680 combine

Concave area increases:
- 15.5% on 1640 and 1660 combines
- 16% on 1680 combine

Separating area increases:
- 24% on 1620
- 32% on 1640 and 1660
- 41% on 1680
1986 (continued)

- Cage vanes were now adjustable without removing bolts or concaves and grates.
- Clean grain augers increased in diameter (7" on 1640 and 1660 combines and 8" on 1680 combines).
- Deeper clean grain elevator cross sections were also implemented (11.1 x 6" on 1640 and 1660 combines and 11.1 x 8" on 1680 combines).
- The tear drop clean grain elevator lower boot was released, along with a tapered entry design into the clean grain elevator boot.
- The shaft speed monitor, which was standard equipment, monitored 9 areas in all, including two new areas, the feeder and the spreader.
- An improved lighting package, with 6-60 watt halogen lights and one long distance light, was released.
- An optional feeder reverser for all 1600 combines was made available, as well as field kits for certain 1400 series combines.
- The following engines were featured on the 1600 Series combines:
  - 1620: D-358 engine
  - 1640: D-466 engine
  - 1660: DT-466B engine
  - 1680: DTI-466C engine

Pin Numbers
1620: PIN start JJC0012001
1640: PIN start JJC0014001
1660: PIN start JJC0016001
1680: PIN start JJC0018001
Axial-Flow History – 1977-2013

1987 / 1988

Pin Numbers

1987
1620: PIN start JJC0022001
1640: PIN start JJC0024001
1660: PIN start JJC0026001
1680: PIN start JJC0028001

1988
1620: PIN start JJC0023001
1640: PIN start JJC0034001
1660: PIN start JJC0036001
1680: PIN start JJC0038001
Axial-Flow History – 1977-2013

1989

In 1989, new CDC Engines were introduced (4/1/89) on the 1600 Series combines, and a new model, the 1670 Hillside Combine, was added to the product line-up.

- 1620: 145 H.P., 5.9 Liter engine, 125 Bu. grain tank
  PIN start JJC032351 (CDC engine 6T-590)
- 1640: 160 H.P., 5.9 Liter engine, 145 Bu. grain tank
  PIN start JJC034705 (CDC engine 6TA-590)
- 1660: 190 H.P., 8.3 Liter engine, 180 Bu. grain tank
  PIN start JJC038347 (CDC engine 6T-830)
- 1670: 235 H.P., 8.3 Liter engine, 210 Bu. grain tank
  PIN start JJC080540 (CDC engine 6TA-830)
- 1680: 235 H.P., 8.3 Liter engine, 210 Bu. grain tank
  PIN start JJC045689 (CDC engine 6TA-830)

The year 1989 brought the following improvements and features to the product line.
- The DTI-466C engine, PIN 80501-80540, came to the product line-up.
- In-line core radiators became available.
- A higher capacity, 110-amp Bosch alternator replaced the 90-amp Motorola alternator.
- Battery sizes were upgraded.
- A coolant level sensor was added to assist the operator.
- An engine aspirator for combines equipped with the Navistar® engines was released.

Pin Numbers
1620: PIN start JJC0032250
1640: PIN start JJC0034501
1660: PIN start JJC0037616
1670: PIN start JJC0080501
1680: PIN start JJC0045351
Axial-Flow History – 1977-2013

1990

• In 1990, an audible alarm was added to the grain-tank full indicator.

• A right side service access door was added on 1640/1660 combines.

• The cab heater valve was replaced with the valve used on 7100 Series Magnum tractors.

Pin Numbers
1620: PIN start JJC0023630
1640: PIN start JJC0035300
1660: PIN start JJC0039550
1670: PIN start JJC0080540
1680: PIN start JJC0047025

1991

• The long cleaning system was released for 1680 grain combines in 1991, starting with PIN JJC047412.

• An electric fuel transfer pump was released for the 1680 combine.

Pin Numbers
1620: PIN start JJC0032950
1640: PIN start JJC0097001
1660: PIN start JJC0102001
1670: PIN start JJC0080560
1680: PIN start JJC0115001
1992

• The year 1992 brought the introduction of Field Tracker to the Axial-Flow combines.

• The 92-120” rear axle was released as standard equipment.

• The hydraulic reservoir size was increased from 5 gallons to 8 gallons.

• The header height control accumulator was released as standard equipment.

• The auxiliary and reel drive pumps were combined into one dual pump.

• The horizontal hydraulic valve stack was introduced.

• Dual spin-on hydraulic filters were added for 1640/1660 combines.

• 1620 and 1670 combines were discontinued.

**Pin Numbers**
1640: PIN start JJC0097190
1660: PIN start JJC0103800
1680: PIN start JJC0117060
1993

With 1993 came the introduction of the Second Generation 1600 Series Axial-Flow combines.

- 1644: 180 H.P., 5.9 Liter engine, 145 Bu. grain tank
- 1666: 215 H.P., 8.3 Liter engine, 180 Bu. grain tank
- 1688: 260 H.P., 8.3 Liter engine, 210 Bu. grain tank

- The Cross-Flow Cleaning Fan was introduced with the second generation 1600 Series combines.

- Improvements to the long cleaning system included 25.9% increase (13.75" added to chaffer and shoe sieve) on 1644/1666 combines and 23.7% increase on 1688 combines.

- Larger air cleaners were featured on 1666/1688 combines.

The following engines were featured on the Second Generation 1600 Series combines:
- 1644: 6TA-590 engine
- 1666: 6T-830 engine
- 1688: 6TA-830 engine

**Pin Numbers**
1644: PIN start JJC0097675
1666: PIN start JJC0104850
1688: PIN start JJC0118860
Axial-Flow History – 1977-2013

1994

The year 1994 saw the introduction of the straw/chaff spreader system to the Axial-Flow combines. The 1644 combine was enhanced with the same transmission, final drive, and brakes used on the 1666/1688 combines.

• An optional cold-start package with ether assist and block heater became available.

• An electric fuel pump was added on the 1644/1666 combines.

• Radial-seal type engine air filters were added to the engines for easy serviceability.

• The unloading auger spill saver was added to the combine offering this year.

Pin Numbers
1644: PIN start JJC0098060
1666: PIN start JJC0106005
1688: PIN start JJC0120460
1995

The 2100 Series Axial-Flow combines were introduced in 1995.

- 2144: 180 H.P. 5.9 Liter 145 Bu. grain tank
- 2166: 215 H.P. 8.3 Liter 180 Bu. grain tank
- 2188: 260 H.P. 8.3 Liter 210 Bu. grain tank

With the new 2100 series came an all-new cab and styling, with 23% more total glass area than the prior 1600 series. Just a few of the main improvements are listed below.

- Improved stadium-design lighting
- New optional lighting package (after cut, side flood, rear work, and service lights)
- Theater style lay-out to right-hand console
- Multi-function propulsion lever
- New A-post instrumentation center
- Improved operator ladder
- Focalized cab mounting system
- New pressure and flow-compensated (PFC) hydraulics and wet brakes
- New safety shielding, service platforms, hand rails, and guards
- Improved hinged service panels for easier access
- AFS field installed kit released in September

**Pin Numbers**
- 2144: PIN start JJC0172501
- 2166: PIN start JJC0178501
- 2188: PIN start JJC0189001
Axial-Flow History – 1977-2013

1996

In 1996, factory-installed Advanced Farming Systems were released (March).

Pin Numbers
2144: PIN start JJC0172845
2166: PIN start JJC0180000
2188: PIN start JJC0191483

1997

• A new, 13-bolt final drive mounting replaced the previously used 7 bolt mounting.

• A new, larger cab air filter was added on the right side of the cab.

• A splined feeder jackshaft replaced the keyed shaft.

• The rear axle center section tubing increased from 5/16” to 3/8”.

• A drive plate was added to the rotor drive coupler.

• The main hydrostatic tubes were replaced with hoses.

• A tilting rear cab window was introduced.

• A heavy duty feeder jackshaft, including cast iron pulley, became available.

• Larger drive axle mounting flanges were released in 1997.

Pin Numbers
2144: PIN start JJC0173150
2166: PIN start JJC0182025
2188: PIN start JJC0193725
Axial-Flow History – 1977-2013

1998

In 1998 came the introduction of 2300 Series Axial-Flow combines.

- 2344: 174 H.P. 5.9 Liter 145 Bu. grain tank
- 2366: 240 H.P. 8.3 Liter 180 Bu. grain tank
- 2388: 280 H.P. 8.3 Liter 210 Bu. grain tank

On the 2300 Series Axial-Flow combines, the following features were standard equipment:

- Tailings volume monitor
- Deluxe cab
- Auto temperature control
- An engine air filter restriction indicator was added to the A-post display.
- An engine air intake manifold temperature indicator and feeder shut-off were equipped on the 2388.
- Hydraulically driven rotary air screen was also available on the 2388 (27% larger area).
- New tire options included the 68x50 - 32h high flotation tire and the 600/65 - R28 high flotation tire.
- The rotor skin was made thicker and stronger, making it three times more resistant to denting.
- On the 2388, the three-speed rotor gearbox with an adjuster lever was located on the left side of the cab.
- A new, improved rotor drive belt offered 27% increased contact area with pulleys.
- A new, lower profile engine air filter with 38% larger filter area was equipped.
- The radiator spinner blade was standard equipment.

Pin Numbers
2344: PIN start JJC0174000
2366: PIN start JJC0184200
2388: PIN start JJC0197000
Axial-Flow History – 1977-2013

1999

With 1999, the following enhancements were made to the combines:

• The introduction of the AFS Universal Display to the Axial-Flow combines
• An optional, extended wear package became available.
• Grooved torque sensing pulleys were standard equipment.
• Reverse rotation was also featured on the left side auger in the auger bed.
• An optional edible bean package became available.

Pin Numbers
2344: PIN start JJC0174260
2366: PIN start JJC0252304
2388: PIN start JJC0265306

2000

Model Year 2000 saw the following improvements for the Axial-Flow combines:

• For Model Year 2000, a ground-level clean grain elevator-mount moisture sensor was equipped on AFS combines.
• A new HVAC system with digital display was equipped (like the system used on MX Magnum tractors).
• A greaseable hydrostatic drive hub was equipped.
• The 2388 rear axle was made standard equipment on 2344/2366 combines.
• The 2388 rotor cage was constructed of AR235 wear-resistant steel.

Pin Numbers
2344: PIN start JJC0174360
2366: PIN start JJC0252950
2388: PIN start JJC0267150
Axial-Flow History – 1977-2013

2001

The year 2001 brought the following enhancements to the 2300 Series combines.

• A hydraulic feeder reverser was brought to the product line.
• A four-groove Kevlar cord feeder drive belt was incorporated.
• A third bearing was added on the rock trap.
• The Rochelle rotor became available.
• External straw chopper adjustment and taller “coined” blades were added.
• The rear frames were pre-drilled for external sieve adjusters.
• A sieve viewing door and light were added.
• A 12-row ready package for the 2388 (4WD) combine became available.
• A 180-gallon fuel tank was introduced on the 2388.
• Left-hand shields were changed so they could be opened without lifting up the side sheets.
• A 16-weight bracket became available.
• Hillco Technologies™ leveling became available from the factory.

Pin Numbers
2344: PIN start JJC0174400
2366: PIN start JJC0254000
2388: PIN start JJC0268800
Axial-Flow History – 1977-2013

2002

In 2002, the following improvements were made to the combines.

• One-piece concaves were brought to the 2300 Series Axial-Flow combines.

• External sieve adjusters became available as factory options.

• A push-button chaff spreader coupler was introduced.

• Curved chaff spreader bats became available as factory options.

• A two-speed straw spreader pulley was incorporated.

• Grain pan drain filler plates were added as standard equipment in the grain tank.

• The clean grain auger inlet cone was made standard on the 2388 model, providing 15% more clean grain elevator capacity.

• A belt-engaged separator drive on the 2388 combine replaced the wet PTO clutch (with five-rib separator drive belt).

• A 130-gallon fuel tank was introduced for the 2344 and 2366 combines.

• A 12-row ready package became available for 2WD 2388 combines.

• Grease banks for the steering axle, unloading auger elbow, and front rotor bearing were added.

• The rotor gearbox speed adjusting lever was moved to the left-hand side of the cab.

Pin Numbers
2344: PIN start JJC0174460
2366: PIN start JJC0255000
2388: PIN start JJC0270500
Axial-Flow History – 1977-2013

2003
The year 2003 brought the introduction of the AFX8010 to the Axial-Flow combine family.

The new AFX8010 was built in Grand Island, NE.

• AFX8010: 375 H.P. 10.3 Liter engine, 330 Bu. grain tank
• 2388: 280 H.P. 8.3 Liter engine, 210 Bu. grain tank
• 2366: 250 H.P. 8.3 Liter engine, 180 Bu. grain tank

The following improvements were featured on the AFX8010 combine.

• A turbocharged and intercooled, full-authority Case IH engine was used on the AFX8010.

• This model featured a 54" wide, 94" long feeder.

• A 30" diameter, 104" long AFX rotor was equipped on the AFX8010.

• 10,075 sq. in. self-leveling cleaning system was used.

• Power plus CVT drives for both the feeder and the rotor were released.

• In-cab sieve adjustment was available as an option.

Pin Numbers
2344: Discontinued
2366: PIN start JJC0255700
2388: PIN start JJC0273000
AFX8010: PIN start HAJ0150105
2003

The following enhancements were made to the 2366/2388 combines in 2003.

• A new AFX rotor was equipped on the 2388, providing 5-25% more productivity.

• Larger rotor drive pulleys, 900-lb. rotor drive spring, and a longer, seamless rotor belt were equipped the combines.

• The new wire cloth mesh hydraulic drive rotary air screen, relocated to the right-hand side of the combine, featured a direct-flow design, with a swing-open door for easy access.

• Square wave technology was incorporated on the radiator and the charge air cooler to prevent “deep-core” plugging.

• The 2366 now featured a 250 H.P., air-to-air after cooled engine.

• The muffler became standard equipment.

• A new engine air cleaner design was incorporated.

• A new operator’s seat with adjustable left-hand armrest and removable seat cushions was equipped on the combines.

• A heavy-duty 2WD rear axle with dual-steering cylinders was available as an option on the 2388 combine.
Axial-Flow History – 1977-2013

2004

The following enhancements were made to the Axial-Flow combines in year 2004.

- 2366: 250 H.P. 8.3 Liter engine, 180 Bu. grain tank
- 2388: 280 H.P. 8.3 Liter engine, 210 Bu. grain tank
- AFX8010: 375 H.P. 10.3L engine, 330 Bu. grain tank

2366/2388 Product Enhancements

- A 208” extended-wear unloading auger was made standard on the 2388 combines.
- 2388 combines were all equipped with extended wear auger bed augers, clean grain auger, grain tank bottom and vertical augers, HVOF diver’s helmet, and HVOF front rotor channel.
- A third lift cylinder support bracket was made standard on 2388 combines.
- Coined feeder slats were made standard on both 2366 and 2388 combines.
- The composite frame stainless steel wire mesh (0.024” hole size) rotary air screen became standard, along with a larger, external dirt chute, and a one-piece bulb type door seal on the 2366 and 2388 combines.
- Stainless steel vanes in the rotor cage became standard on 2388 combines.
- 2004 was the last year of production at the East Moline plant.

Pin Numbers
2366: PIN start JJC0256400
2388: PIN start JJC0274450
Axial-Flow History – 1977-2013

2004

The following improvements were made to the AFX8010 in 2004.

- The feeder drum thickness was increased to 0.75”.
- The four separator bars on the AFX rotor configuration were removed, and replaced with spiked-tooth rasp bars.
- Round bar modules were released as a DIA kit.
- An extended wear option was introduced.
- Center impeller on the tailing processor was enlarged, and tip speed was increased by 10%.
- A two-speed powered rear axle was introduced.
- 20.8x42 R2 duals and 28L-26 steering tires were offered.
- The cab ladder and deck were changed.

Pin Numbers
AFX8010: PIN start HAJ0105200
Axial-Flow History – 1977-2013

2005

In 2005, a new 2300 Series combine, 2377, was introduced and the 2366 was discontinued.

- 2377: 250 H.P. 8.3 Liter 190 Bu. grain tank
- 2388: 280 H.P. 8.3 Liter 210 Bu. grain tank
- AFX8010: 375 H.P. 10.3L 330 Bu. grain tank

Axial-Flow 2377/2388

- The AFX rotor became the base rotor on all models.
- Heat treatment was implemented for all small-wire concaves.
- Engine air deflectors became standard equipment.
- A new paint scheme for 2300 Series combines was implemented at Grand Island.
- Non-painted accessory part and component protection was added.
- New E-Coat component protection for critical internal areas was implemented.
2005 (continued)

AFX 8010 Features

• A new header drive gearbox was released for the AFX8010.

• The capacity of the header/feeder slip clutch was increased to 1,106 ft.-lbs.

• An engine air deflector was added to prevent accumulation of dust and chaff around the turbocharger and exhaust manifold.

• Shielding was added around the cleaning fan to prevent stalk and debris build-up.

• Conveyor chains were moved further out on the slats to improve load distribution.

• Heat treatment was implemented for all small-wire concaves.

• Combine production moved from East Moline, IL to Grand Island, NE.

East Moline, IL Combines
Pin Numbers
2366: PIN start JJC0257600-JJC0257696
2388: PIN start JJC0276100-JJC0276540

Grand Island, NE Combines
Pin Numbers
2377: PIN start HAJ0292001
2388: PIN start HAJ0292001
AFX8010: PIN start HAJ0105687
2006

The year 2006 brought the following enhancements to the Axial-Flow combine family.

• 2377: 255 H.P. 8.3 Liter engine, 190 Bu. grain tank
• 2388: 285 H.P. 8.3 Liter engine, 210 Bu. grain tank
• AFX8010: 400 H.P. 10.3L engine, 330 Bu. grain tank

2300 Series Product Enhancements

• The Serial Number Plate was moved to the main frame, to the front side of the right-hand deck support tube.

• The Field Tracker frame was increased from 0.25" (6.35mm) to 0.31" (7.87mm).

• The heavy-duty three-speed rotor gear case became standard equipment.

• Curved bats on the straw/chaff spreaders became standard equipment.

• A windshield washer became available as a factory option.

• All 2300 Series combines were pre-wired for the Auto-Lube system.

• A new hydraulic system reservoir sight gauge was introduced.

• Tier III engines with increased horsepower and enhanced monitoring capabilities were introduced.

• A new grid heater starting-assist package was released.

• A larger radiator was included with all Tier III engines.
Grain Harvesting

Axial-Flow History – 1977-2013

2006

AFX 8010 Features

• The deluxe cab and the in-cab sieve adjust features were made standard equipment.
• A wear-resistant base machine was made available.
• This packages included HVOF coating on the processor, and on all high impact areas.
• Hillco-ready package was released.
• A heavy-duty transition cone option was released (featuring bolt-in vanes).
• New profile was implemented on the rotor flight, nose and wear band to improve crop flow.
• Transition cone inlet castings were changed to include a tungsten carbide coating to improve wear resistance.
• Longer, stainless steel cage vanes were added to the left side of the rotor cage to improve crop flow.
• An enhanced shake cleaning system was introduced for improved cleaning in high-moisture crops.
• The windrow swath door was increased in width by 4”.
• Tier 3 compliant engines with 25 hp rise, and 25 hp boost were introduced.
• A factory installed bottom shield option became available.
• A hard thresh tailings kit was released to improve re-threshing performance.
• The capacity of the header drive gear box was increased.
• New engine air deflectors introduced as standard equipment.
• Improvements were made to the combine and header set-up screen software.
• Pressure float override was added to the standard AHHC system.
• The rear switch group was changed to include control for two-speed powered Rear Assist.
Axial-Flow History – 1977-2013

2007

In Model Year 2007, the Axial-Flow 2577, 2588 and 7010 combines were introduced.

- Axial-Flow 2577: 265 H.P. 8.3 Liter 230 Bu. grain tank
- Axial-Flow 2588: 305 H.P. 8.3 Liter 290 Bu. grain tank
- Axial-Flow 7010: 350 H.P. 9.0 Liter 315 Bu. grain tank
- Axial-Flow 8010: 400 H.P. 10.3 Liter 350 Bu. grain tank
Axial-Flow History – 1977-2013

2007

2577/2588 Product Enhancements

• Yield moisture and flow sensors and AFS badges became standard equipment.
• The AFS Pro 600 became used as the yield monitor display.
• Field Tracker: Additional bolts were added on each side of the feeder to prevent the feeder face plate from tipping forward under heavy load.
• The feeder top shaft sprocket assembly has been lengthened to reduce shaft bending.
• The third cylinder anchor bracket on the front axle became standard equipment.
• Final drive gears were shot peened to improve gear life and increase durability and strength.
• Wheel bolts went from M20 to M22 to provide better wheel retention. A common dual wheel was used for 7010 and 8010.
• The rotor drive coupler attaching plate thickness increased in the rotor bulk head in order to achieve longer bolt thread engagement.
• The rotor gear case shift lever was plated and the bore size increased to eliminate seizing due to corrosion.
• Rear axle: Material thickness was increased on the center section (from 9 mm to 12.7 mm).
• The unload rate was increased to 2.4 bushels.
• The unloading tube length was increased to 18' or 21'.
• Reside Management: The straw spreader curtain length was increased.
• The material thickness of the bottom tailings elevator housing was increased.
• The clean grain elevator slip clutch torque was increased by 20%.
• The Power-Clean Evacuation System was introduced and included a hydraulically driven evacuation fan and an optional rotary brush.
Axial-Flow History – 1977-2013

2007

Axial-Flow 7010 Features
The AFX7010 offered the following features:
• A 9.0L Case IH engine, offering 350 HP, 25 HP torque rise and 15 HP boost.
• Single-plane in-line coolers.
• 8,370 sq. in. cleaning system was equipped.
• 315 b.u. grain tank (17” extensions)

Axial-Flow 8010 Features
The following enhancements were provided for the AFX8010 in 2007.
• Grain yield/moisture monitor with AFS 200 was offered as standard equipment.
• AFS Pro 600 display was offered as an optional upgrade.
• AFS AccuGuide™ autoguidance ready was offered from the factory.
• Additional content for the Wear Resistant model was added, including inlet castings, transition cone, and tailings processor.
• The new paint scheme incorporated more red on the grain tank and unloading auger.
• The high-wear transition cone was made standard equipment.
• The grain tank capacity for the 8010 was increased to 350 bushels (12.3 cm).
• Longer unload tubes became available: 21 ft and 24 ft.
• Grain tank cross auger cleanouts were removed from the bottom of the augers to reduce auger trough wear and grain leakage issues around the covers. Cleanouts were added to the right-hand end of each grain tank cross auger just below the bearing mount.
2008
For 2008, Case IH and the Axial-Flow combines again raised the bar by which all combines were measured to provide even greater performance and value to the North American farmer.

Axial-Flow 7010 features
- 360 hp rated @ 2100 RPM
- Operator selectable rise/boost modes
  - 25 hp boost plus 15hp rise (400 hp) peak
  - 40 hp steep rise (400 hp) peak
- 52” wide cleaning system with 5.4 m² (8,370 sq.in.) area
- 315 bu. grain tank with 24” foldable extensions
- 21’ standard / 24’ optional unloading auger
- 3.2 bushel per second unload rate
- Standard 11/111 heavy-duty final drives with 110cc hydrostatic pump and 100 cc hydrostatic motor
- Optional heavy-duty planetary final drives with 130 cc hydrostatic pump/motor
- Power plus CVT rotor/feeder drives both with hydraulic 6-1 ratio reversing
- Self-leveling cleaning system

Axial-Flow 8010 features
- 400 hp rated @ 2100 RPM
- Operator selectable rise/boost modes
  - 25 hp rise plus 25 hp boost (450 hp) peak
  - 50 hp steep rise (450 hp) peak
- 62” cleaning system with 6.5m² (10,075 sq.in.) area
- 350 bu. grain tank with 27” foldable extensions
- 21’ standard / 24’ optional unloading auger
- 3.2 bushel per second unload rate
- Standard heavy-duty planetary final drives with 130 cc hydrostatic pump/motors
- Power Plus CVT rotor/feeder drives both with hydraulic 6-1 ratio reversing
- Self-Leveling Cleaning System
Axial-Flow History – 1977-2013

2008

Axial-Flow 7010/8010 features (continued)

• 7010 approved for B5 biodiesel
• 8010 approved for B100 biodiesel
• High wear transition cone with stainless steel vanes
• Optional two-speed powered rear axle
• Feeder structural improvements, extra support added to feeder floor
• Redesigned feeder slip clutch
• Feeder drum assembly has been improved with a new shaft and bearing design
• Updated spring loaded design feeder chain tensioner
• Rotor cage separation covers DIA kit reduces MOG on cleaning system in certain conditions
• Redesigned chopper shift coupler
• Metal rotary air screen
• Single plane cooling system to reduce plugging

Pin Number

Axial-Flow 7010/8010 Pin Start HAJ202001
Axial-Flow History – 1977-2013

2008

Axial-Flow 2577/2588

- 2588 305hp 8.3L Cummins, 290 bushel grain tank
- 2577 265hp 8.3L Cummins, 230 bushel grain tank
- Hydraulic reverser accumulator update to improve reliability
- Optional single point latching system
- Optional single point hydraulic multi-coupler
- Stronger rotor drive coupler
- Redesigned cleaning system pitman arm bushings that were more durable
- Approved for B20 biodiesel

Pin Number
Axial-Flow 2577 Pin Start HAJ302001
Axial-Flow 2588 Pin Start HAJ302001
Axial-Flow History – 1977-2013

2009

For 2009, Case IH introduced six new models of combines, three 88 series (5088, 6088 and 7088) and three 20 series (7120, 8120 and 9120). The new models included new styling more horsepower and Case IH’s first class nine combine.

7088
• New Class 7 model offering
• 9.0L engine rated at 325hp
• Grain tank capacity 300 bushel

6088
• Replaced the prior 2588 Axial-Flow combine
• 8.3L engine rated at 305hp
• Grain tank capacity 300 bushel

5088
• Replaced the prior 2577 Axial-Flow combine
• 8.3L engine rated at 265hp
• Grain tank capacity 250 bushel

88 Series Features
• A spring-loaded feeder chain tensioner was introduced to ensure proper chain tension
• Feeder reverser system introduced using positive gear-to-gear engagement
• Single lever header latching with single point hydraulic multi-coupler
• Optional two-speed header drive for corn
• Optional in-cab sieve control available
• Power folding grain tank extensions available as an option
• 15% increase in clean grain elevator capacity over the 2588
• Stationary air screen uses a revolving hydraulically powered wand to keep screen clean
• Front axle was moved 4” ahead and the rear axle moved 5” back
• 6088/7088 use a ¾ wider rotor drive belt than 2588
• Easy access to the rear deck and large fully opening side panels for service
• Common propulsion handle with Axial-Flow 20 series

Pin Number
• 88 series Pin Start Y8G000101
Axial-Flow History – 1977-2013

2009

Case IH was proud to introduce the Axial-Flow 7120 Class VII combine, Axial-Flow 8120 Class VIII combine and new Class IX Axial-Flow 9120 combine to complement the rest of the Axial-Flow combine line. This introduction completed the Case IH Axial-Flow combine line-up from the Class V Axial-Flow 5088 up to the Class IX Axial-Flow 9120 combine.

7120
- Replaced the prior 7010 Axial-Flow combine
- 8.7L (Iveco) engine rated at 360hp
- Grain tank capacity 315 bushel

8120
- Replaced the prior 8010 Axial-Flow combine
- 10.3L (Iveco) engine rated at 420hp
- Grain tank capacity 350 bushel

9120
- Replaced the prior 2577 Axial-Flow combine
- 12.9L (Iveco) engine rated at 483hp
- Grain tank capacity 350 bushel

20 Series Features
- A new rear deck and service ladder was incorporated to improve access.
- Feeder chain was changed from a 4-strand, 2-slat to a 4-strand, 3-slat design
- Optional heavy lift package for 8120 and 9120 combines included 90 mm lift cylinders
- A clean-out door was added to the fan for easy access.
- The fine cut MagnaCut chopper with 126 rotating knives was introduced.
- In-cab spreader speed control was made available.
- Quadtrac style tracks were available on 8230/9230 as factory option.
- Heated red leather seat was available as an option.

Pin Number
Axial-Flow 20 series Pin Start Y8G205001
Axial-Flow History – 1977-2013

2010

For 2010, Case IH engineering continued to improve the Axial-Flow 88/20 series combines with further enhancements.

7088/6088/5088 Features
• Redesigned feeder slip clutch to offer better performance and durability
• Higher capacity cleaning system belt incorporated to handle higher loads
• 60H chain incorporated to drive clean grain and tailings elevator
• Larger unload swing cylinder incorporated to provide additional force
• The 135 amp alternator was replaced with a high capacity 200 amp
• Factory available engine driven air compressor available as an option
• Heavy duty forward gear box available as an option to handle higher torque loads
• Redesigned rotor gearbox shift mechanism to ensure rotor gear is engaged

7120/8120/9120 Features
• Feeder slat changed from a Z style to a U style for improved durability
• Improvements were made to the casting on the spring-loaded feeder chain tensioner
• Tailings processor cover was lengthened to reduce material entering behind cover
• Dipstick added to bubble up auger gearbox for improved service
• Higher capacity right side chopper bearing was incorporated
• Side deflectors on windrow chute were raised for better windrow formation
• Factory available engine driven air compressor available as an option
• Improvements made to the spool valve used in the header lateral tilt circuit

Pin Number
• 88 series Pin Start Y9G002601
• 20 series Pin Start Y9G207601
Axial-Flow History – 1977-2013

2011

For 2011, Case IH engineering continued to improve the Axial-Flow 88/20 series combines with further enhancements.

7088/6088/5088 Features
- Support rings were added to the feeder front drum to protect feeder slats
- 3 inch lift cylinders replaced 2.5 inch on 5088
- Rasp bar mounts have been changed to prevent twisting of the rasp bar
- 6 row flail chopper available on 7088
- Improved, more robust moisture sensor incorporated
- AFS RowGuide was introduced. This incorporators row feelers on corn heads

7120/8120/9120 Features
- Slip clutch added to the feeder top shaft; this improved rock protection and prevented chain damage
- Support rings were added to the feeder front drum to protect feeder slats
- Stronger, more robust spring-loaded feeder chain tensioner incorporated
- 40 element ST rotor replaced prior 36 element
- Rasp bar mounts were changed to prevent twisting of the rasp bar
- Hydraulically folding grain tank covers available as a DIA kit
- Hydraulically driven grain tank cross augers available as an option
- MagnaCut Chopper was changed from 126 to 120 rotating knives
- 8120 peak horsepower was increased by 17hp
- Factory tracks were made available for 7120

Pin Number
- 88 series Pin Start YAG004601
- 20 series Pin Start YAG210201
Axial-Flow History – 1977-2013

2012

For 2012, Case IH engineering continued to improve the Axial-Flow 88/20 series combines with further enhancements. There were also two launches for 2012. The 88/20 series was launched then the 130 and 230 Tier 4A series combines were launched.

7088/6088/5088 Features
• To improve header retention to the feeder, the cradle casting is revised
• The small tube rotor threshing element configuration has been revised to improve rotor performance over a wider range of crops and harvest conditions. The new small tube rotor contains 60 threshing elements and 2 helical kickers, versus 57 threshing elements and 3 helical kickers on the MY 2011 small tube rotor.
• Optional 300 bushel grain tank available on 5088
• Several design enhancements have been implemented in the residue system to improve the overall robustness and reliability of the system.
• To increase residue distribution in some crops, an optional chaff spreader was introduced.
• Foot and inch pedal made available as a DIA kit
• The AFS Pro 700 monitor was introduced

7120/8120/9120 Features
• To improve header retention to the feeder, the cradle casting is revised.
• To improve rotor run-out on AFX rotors, a new wave seam design has been incorporated.
• To improve the concave position sensor quality, a new more robust sensor has been implemented.
• A new chopper has been introduced to provide improved chop quality while reducing horsepower demands. The new chopper uses 40 blades, and is called the MagnaCut fine cut chopper.
• A new air filtration system has been implemented on all MY 2012 20 Series combines.
• AFS Pro 700 monitor was introduced.

Pin Number
• 88 series Pin Start YBG006801
• 20 series Pin Start YBG213601
Axial-Flow History – 1977-2013

2012

For Model Year 2012, Case IH is proud to announce the new models of Axial-Flow combines. The introduction of the Axial-Flow 5130, 6130, 7130, 7230, 8230 and 9230 combines marks the 35th anniversary of the Axial-Flow rotary combine. Over 35 years of continual enhancements and improvements developed Case IH Axial-Flow combines into the industry leaders of today.

7130
• Replaced the prior 7088 Axial-Flow combine
• 8.7L FPT engine rated at 350hp
• Grain tank capacity 300 bushel

6130
• Replaced the prior 6088 Axial-Flow combine
• 8.7L FPT engine rated at 320hp
• Grain tank capacity 300 bushel

5130
• Replaced the prior 5088 Axial-Flow combine
• 6.7L FPT engine rated at 265hp
• Grain tank capacity 250/300 bushel

5130/6130/7130 Features
• Feeder length was increased by 4.7 inches to provide better clearance between the header and cab
• 6130/7130 feeder lift cylinders were increased from 3 inch to 3.15 inch
• Unload rate increased to 3.2 bushel from 3.0 bushel on 6130 and 7130 models
• Besides increased horsepower, the proven Case IH SCR technology, used on Case IH tractors starting in MY 2011, has now been incorporated on combines.
• Cummins engines were replaced by FPT engines.
• New horsepower curve to provide more power early in the engine hp curve
• 600 rpm low engine idle incorporated for better fuel savings
• Fuel efficiency improved by an average of 10% thanks to SCR technology
• A new PTO Gear Case has been designed for the new FPT engines.
• All 5130, 6130 and 7130 Axial-Flow combines incorporate a new 105 cc pump ground drive pump.

Pin Number
130 Series: PIN start YCG007403
Axial-Flow History – 1977-2013

2012 (Continued)

9230
- Replaced the prior 9120 Axial-Flow combine
- 12.9L FPT engine rated at 500hp
- Grain tank capacity 350 bushel

8230
- Replaced the prior 8120 Axial-Flow combine
- 12.9L FPT engine rated at 450hp
- Grain tank capacity 350 bushel

7230
- Replaced the prior 7120 Axial-Flow combine
- 8.7L FPT engine rated at 380hp
- Grain tank capacity 315 bushel

7230/8230/9230 Features
- The 7230 cleaning system size has been increased to 10,075 sq. in.
- Grain tank has been completely redesigned for new larger unloading auger length and capacity
- Unload rate increased to 4.0 bushel on 7230/8230 and 4.5 bushel on 9230
- Unloading auger increased from 12.6 inch to 14 inch
- New longer unloader options to accommodate 45ft headers
- The new dual drive control, standard on the 9230, optional on the 7230 and 8230, provides the ability to turn off the grain tank cross augers independently of the unloading vertical and horizontal augers.
- In-cab power folding grain tank extensions are made available as an option
- Besides increased horsepower, the proven Case IH SCR technology, used on Case IH tractors starting in MY 2011, has now been incorporated on combines.
- 8230 now utilizes larger 12.9L (prior 8120 used 10.3L)
- 600 rpm low engine idle incorporated for better fuel savings
- Fuel efficiency improved by an average of 10% thanks to SCR technology
- Improved spreader design for better residue control
- Straw hood geometry changed to provide better material flow off of the rotor

Pin Number
230 Series: PIN start YCG214801
Axial-Flow History – 1977-2013

2013

For 2013, Case IH had a split model year launch. There was one quarter of production of the 130/230 built prior to the new cab being introduced. The new cab was introduced in September for 2012 for both the 130 and 230 series Axial-Flow combines. All six 30 Series models shared a common cab design. The new cab was completely redesigned from the ground up to offer many industry leading features. The new cab was available in two configurations, Deluxe and Luxury.

5130/6130/7130 Features
- Chain guides have been added to the feeder front drum providing better chain tracking in all conditions, improving chain life and providing maximum up-time.
- To improve threshing performance when harvesting in high-moisture and green-leafy material, a new round bar concave design was added.
- New for MY 2013 was the optional in-cab power folding grain tank extensions.
- The rocker shaft that controls the movement of the powered grain tank covers and extensions has been modified to improve the time required to open or close the extensions or cover.
- The integrated AFS 372 Receiver features access to the latest in satellite signals and correction options available.

7230/8230/9230 Features
- To improve header height response when harvesting in uneven terrain, a new header height software was released.
- Rotor module production was moved to Grand Island, Nebraska, which is the same location that Axial-Flow combines are built. The new rotor modules are fully welded compared to the prior stake design.
- For model year 2013, a dual disc spreader option was available from the factory. This option provides improved spreader performance in tough conditions, is targeted for the rice regions and replaces the standard spreader option.
- To improve access to the front axle area, a clean out door was added to the front axle debris screen.
- An engine air screen evacuation system is utilized for all 7230, 8230 and 9230 combines. An external fan is utilized to draw debris off of the engine screen and evacuate that debris onto the ground.
- To improve long term seal durability of the rotor CVT drive on 9230 combines, a new ring gear was implemented.
- The integrated AFS 372 Receiver features access to the latest in satellite signals and correction options available.

Pin Number
130 Series: PIN start YCG008901
230 Series: PIN start YCG217301
2013

For 2013, Case IH had a split model year launch. A new cab was introduced in September for 2012 for both the 130 and 230 series Axial-Flow combines. All six 30 Series models share a common cab design. The new cab was completely redesigned from the ground up to offer many industry leading features. The new cab is available in two configurations, Deluxe and Luxury.

5130/6130/7130 New Cab Features
- One of the biggest changes to the new Axial-Flow 30 Series combines is the cab
- Cab Features
  - New roof and light styling
  - Improved legroom and ergonomics
  - New steering column
  - Optional Integrated cooler box
  - Additional storage space
  - Improved visibility
  - Repositioned fuse box
  - New platform and ladder
  - New propulsion handle
  - New right hand console layout
  - AFS® Pro 700 monitor
  - Optional Bluetooth radio
- The operator’s platform and ladder have been redesigned to make setup easier for the dealer and increase operator visibility.
- The AFS Pro 700 also replaces the A-Post that was used on prior 88 Series combines
- No changes to engines and horsepower levels compared to the prior 130 series

Pin Number
130 Series: PIN start YDG009296
Axial-Flow History – 1977-2013

2013 (continued)

7230/8230/9230 Features
• One of the biggest changes to the new Axial-Flow 30 Series combines is the cab
• Cab Features
  • New roof and light styling
  • Improved legroom and ergonomics
  • New steering column
  • Optional Integrated cooler box
  • Additional storage space
  • Improved visibility
  • Repositioned fuse box
  • New platform and ladder
  • New propulsion handle
  • New right hand console layout
  • AFS® Pro 700 monitor
  • Optional Bluetooth radio
• The operator’s platform and ladder have been redesigned to make setup easier for the dealer and increase operator visibility.
• No changes to engines and horsepower levels compared to the prior 130 series.
• Three unload auger lengths are available to accommodate all Case IH headers with the longest two options available in folding. Sizes were 23.6’, 28.9’ & 34’.
• The industry exclusive pivoting spout option is available for all unloading auger lengths.
• The Deluxe chopper option provides in-cab control of the counter knife bank and rotor discharge deflector to optimize combine settings from inside the cab.
• Remote chopper shift is avail. as an option. The chopper to be shifted without opening side panel.
• As an optional feature, both the spreader chutes and center spreader divider can be adjusted from inside the cab.
• The variable ground drive system is standard on the 8230 and 9230 and an option on the 7230. It features up to 24 mph transport speeds and higher output torque for increased grade ability compared to the fixed displacement motor design.
• The variable ground drive is standard on all track combines. This improvement provides a 35% increase in tractive effort on tracked combines.

Pin Number
230 Series: PIN start YDG218540
Axial-Flow History – 1977-2013

2014

For 2014, Case IH released in May of 2013 the model year 2014 230 and 130 series combines. Then in September of 2013 Case IH introduced the Tier 4B 140 series combine that replaced the prior 130 series. For 2014 there was no additional launch of the 230 series. The 230 series remained at the Tier 4A level.

5130/6130/7130 Features
• The nominal feeder jack shaft speed at high engine idle has been revised to be 575 rpm from an original rpm of 602.
• The profile of the header latch has been changed to better ensure that the header retention pins are properly engaged.
• To improve the choppers overall reliability a new bearing supplier has been selected for the chopper bearings. The new bearing supplier is a Timken.
• To improve the combines overall productivity when harvesting at night a new ultra distance lighting package is available as a fielded installed option.
• RTK guidance now includes xFill technology which allows RTK guidance precision to be sustained during periods of RTK correction signal outages.
2014 (Continued)

7230/8230/9230 Features
• To increase the capacity of the Top feeder gearbox that is mounted on the upper left side of the feeder a new ductile iron is used.
• To increase longevity of the rotor cage and transition cone a new order code has been added. The new code is for a chrome plated rotor cage and transition cone.
• With high crop throughputs in today’s combines a cast vane is now used for the right rear cage positions.
• Significant improvements have been made to the cleaning and grain handling system. These system changes have resulted in an 8% increase in overall productivity in corn.
• To prevent unloading auger sag a revised more robust top grain tank support beam and torrent top pin bearing holder have been incorporated.
• For MY 14 in-cab control of chopper speed and windrow door is done using the AFS Pro 700 when optional packages are ordered.
• New high torque motor and pump have been implemented for both the vertical and dual disc spreaders.
• A new lower chopper/sieve access step is available as an option.
• To improve the combines overall productivity when harvesting at night a new ultra distance lighting package is available as a fielded installed option.
• Auto federate control works similar to APM on a tractor. The combine will vary ground speed based on engine power or rotor/sieve loss.
• For MY14 all 230 series combines are prewired from the factory for 3 camera’s.
• RTK guidance now includes xFill technology which allows RTK guidance precision to be sustained during periods of RTK correction signal outages.
• The rotary screen drive bearing and shaft have been improved with a more robust design.
• To provide for a more robust wheel to axle joint the drive wheels will be bolted using studs rather than the prior stud design.
2014 (Continued)

For Model Year 2014, Case IH is proud to announce the new models of Axial-Flow combines. The introduction of the Axial-Flow 5140, 6140 and 7140 combines. The 140 series combines feature new higher horsepower levels along with Case IH SCR Tier 4 B/Final technology. The 7140 is actually rated at the same horsepower as the original 8010 combine.

7140
- Replaced the prior 7130 Axial-Flow combine
- 8.7L FPT engine rated at 375hp
- Grain tank capacity 300 bushel

6140
- Replaced the prior 6130 Axial-Flow combine
- 8.7L FPT engine rated at 348hp
- Grain tank capacity 300 bushel

5140
- Replaced the prior 5130 Axial-Flow combine
- 6.7L FPT engine rated at 265hp
- Grain tank capacity 250/300 bushel

5140/6140/7140 Features
- Higher horsepower levels with increases in power rise for more unloading on the go power.
- Featuring Patented SCR only technology.
- For Model Year 2014 the lateral tilt option has been made standard.
- The spreader cone material has been changed to provide a higher level of durability with the increased crop flows of today’s high horsepower combines.
- Case IH has released new engine coolant, engine oil and hydraulic oil that in most applications replaces all other prior fluids.
- A fourth outlet has been added to the engine air compressor option.
- To improve the DEF tank vent system, a new filter has been implemented.
- The engine diesel fill location has been updated with a new fuel lock box.
- The control software for the Engine % Power has been changed so that this value shows up on the display even with the feeder off.
- To help facilitate rapid machine clean-out when changing crops or fields, a “Clean-Out” User Defined Window (UDW) can now be added to the AFS Pro 700 run screens.
Summary

The Case IH Axial-Flow combine product line continues to build on the same core principals established with the first Axial-Flow single rotor combines in 1977. These core principals still provide the foundation for designing and engineering Axial-Flow combines today.

As farming continues to change over the years, Case IH engineers continue to update, and upgrade the Axial-Flow to keep up with changing customer needs, and maximize productivity for any crop, under any condition.

Sell the Axial-Flow advantage!
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