

Other options

- 1) N-14 450HP Cummins engine
- 2) MS63 Wheel motors
- 3) 6800x50x32 20 Ply rear tires (for wraparound)
- 4) MS18 plus 20 front wheel motors
- 5) 1400x24x12 front tires
- 6) 4 wheel drive
- 7) 37 degree rear axle
- 8) Front steps
- 9) Notfingler clips on all chains (Bolted)
- 10) Extra master switch wired in to be attached to joystick
- 11) Speed control station in convenient location to include
- a) Rear cross chain
- b) Rear cross dist. Rollers
- c) Porcupine belt
- d) Porcupine stars
- e) Tub infeed
- 12) Move cab back to open up view of allis table
- 13) 350 gallon fuel tank
- 14) Raise airhead mounts and redo where topside elevator

possible degrees as to reduce angle of top side elevator as much

Harvester Checklist

Primeras

- 1) Small nose roller R4FBR5U2
- 2) Plastic under blades
- 3) Stainless all the way up sides
- 4) Lower pivot point
- 5) Tap drive
- 6) Triple primary pumps (Electnc)
- 7) Double cut keys on primary shaft 180 degrees apart
- 8) V15 Motors
- 9) 10 Tooth sprockets
- 10) Reversing valve
- 11) Anti-wrap bars on primary shaft
- 12) Add 8" x 2" angle iron to divert potatoes off of vine chain web
- 13) Digger blade in bottom, bottom holes
- 14) In cab speed control
- 15) 3 bearings on drive shaft
- 16) Double disc couplers
- 17) Rotating hydraulic shakers
- 18) 1/2 x 33 x 45mm Hoffinger

Secondaries

- 1) 18 inch extended
- 2) Rubber coated carryback rollers
- 3) 4 Sprockets on drive
- 4) Double cut keys add 3 inches of shaft to both ends
- 5) Electronic pump
- 6) Reversing valve
- 7) Gearbox drive
- 8) In cab speed control
- 9) 7/16 x 68 x 45mm Broekema

Vine Chain

- 1) Gearbox drive
- 2) Large flange rollers on return by rear cross
- 3) Bolt on sprockets
- 4) Outside speed control tied with secondary but still have ability to tweak (as wraparound is)
- 5) Snap rollers
- 6) 5/8 x 68 x 151mm Broekema

- 1) Clean up and cover center bearings
- 2) Clean up and cover ends of shafts as to prevent small stones from getting caught
- 3) Install pressure switch or shaft monitor so you know when Ellis table stops
- 4) In cab and outside speed and spacing controls
- 5) All 13 point Broekema stars

- Rear cross
 - 1) Build cross so it has enough tilt adjustment
 - 2) Speed control outside of cab located by control for Dist stars
 - 3) Pressure switch
 - 4) Rear cross delivery onto dist stars should be level
 - 5) 7/16 x 48 x 45mm Broekema

- Distribution rollers
 - 1) Big shafts with big bearings
 - 2) 13 point stars Broekema
 - 3) Outside speed control

- Bottom side elevator
 - 1) 4 sprockets on drive shaft
 - 2) In cab speed control
 - 3) 7/16 x 65 x 45mm Broekema

- Top side elevator
 - 1) 4 sprockets on drive shaft
 - 2) In cab speed control
 - 3) 7/16 x 65 x 45mm Broekema

Airhead

- 1) Electronic pump
- 2) Bell cleaner
- 3) In cab fan RPM readout
- 4) Leveling system should be old style (weights)
- 5) 65.

Stone conveyor

- 1) 7/16 x 14 x 1.25
- 2) Solid floor
- 3) Outside flow control

3 X 8 Cyl. On ~~Auto~~ Cleaner

Top stars
1) Outside flow control

Porcupine belt
1) Actuator for tilt adjustable in cab
2) New style infeed with 2 star rollers and small tube.
3) Outside flow control
4) 15" fan

Distribution rollers
1) Outside flow control

Bin load
1) Outside flow control
2) 7/16 x 40 x 36mm

Tub
1) Chevron belt
2) Look at leveling tub
3) In cab speed control with extra switch to shut off boom and tub
to be attached to joy stick
4) No expanded metal on tub side

Boom
3) 7/16 x 40 x 36mm
3) 14 tooth terog sprockets *OVER THE TOP*
4) in cab speed control with extra switch
5) 14" sides

MANUFACTURING ORDER FORM CHANGES

CUSTOMER
MACHINE
SERIAL NO
DATE

HEARTLAND
AIR HEAD
3213

8/26/2003

ASKED FOR BY BILL OK BY RANDAL

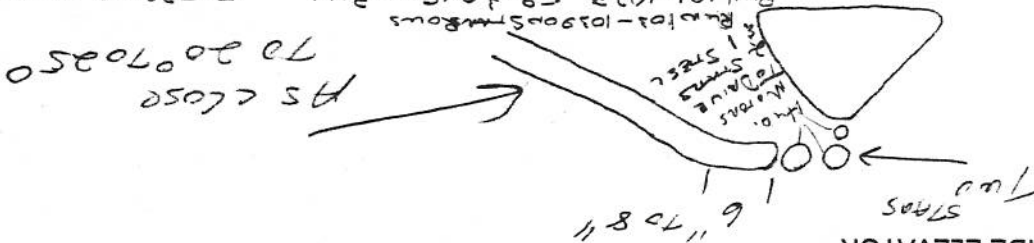
~~PARSED AFTER~~ AFTER DONNEY HANSEN

CHANGES FINAL CHANGES AFTER VISIT TO DOWNEYS

*INSTALL 3.0 ELECTRONIC PUMPS ON PRIMARY AND SECONDARY AND ELECTRONIC LEVELING AND BIN CONTROL

Direct Electronic C.H.
Leveling Pump
9/22/03

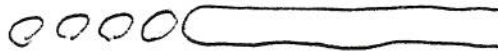
BUILD VINE BELT WITH TWO STARS AND SNAP ROLL MOUNT LAST STAR DIRECTLY OVER THE TOP ROLLER OF THE VINE BELT WHEN THE BELT IS AT 45 DEGREES POSITION SMOOTH ROLLER AS SHOWN MAKE DOG LEG SHORTER ON SIDE ELEVATOR TO REDUCE ANGLE OF SIDE ELEVATOR



RAISE AIR HEAD MOUNTS SO THAT THE AIR HEAD IS NO HIGHER THAN 15 FOOT TO REDUCE THE ANGLE OF THE TOP SIDE ELEVATOR WOULD LIKE TO GET AS CLOSE AS POSSIBLE TO 25 DEGREES CHANGE THE OF THE BOTTOM FLAT SIDE AS NEEDED

Shorter AS
MUCH AS
Possible

BUILD CROSS SO THAT CHAIN DELIVERS ON TO THE STARS DIRECT AND DOES NOT DROP BECAUSE OF ELLIS TABLE WE ONLY NEED



Cross
DIST STARS
(bulb)

MOVE CAB BACK 8 TO 10 INCHS TO OPEN UP THE VIEW OF THE ELLIS
TABLE

PUT RUBBER ON THE CENTER BEARING SUPPORT OF THE
ELLIS TABLE USE 2 INCH PIPE AND POP RIVET RUBBER TO THE PIPE

CUT CENTER RAIL DOWN

ADD 8" X 2" ANGLE TO DIVERT POTATOS OFF OF THE PRIMARY CHAINS
AND BOLT BELTING ON

BUILD CROSS SO THAT THERE IS A 6 INCH SLOPE IN THE CROSS
WITH ADJ 3 INCH EITHER WAY

* PRESSURE SWITCH ON THE STARS, REAR CROSS, AND STEEL
ROLLERS

* ACTUATOR ON THE PORCUPINE BELT ADJ FROM THE CAB *Size Return U.*

* EXTRA SWITCHS WITH LEADS WIRED TO THE BOOM SHUT OFF AND
MASTER SWITCH SO THEY CAN BE FASTENED TO THE CONTROL
HANDLE

* EXTRA CONTROL ON RIGHT SIDE OF THE FRAME OUTSIDE TO
CONTROL THE STAR SPACE AND SPEED OF THE STARS AND STEEL
ROLLER *Depends On Design*

* IN CAB SPEED CONTROLS FOR FLOW CONTROLS FOR THE

BOOM

BIN UNLOAD

TOP SIDE

BOTTOM SIDE

ELLIS STAR SPACING RIGHT AND LEFT *Steel Roll*

ELLIS STAR SPEED RIGHT AND LEFT

SMOOTH ROLL SPEED

PRIMARY AND SECONDARY - *POTENTIOMETERAL CONROLLERS*

ELLIS STAR *Distraction Rolls*

* FLOW CONTROLS OUTSIDE CAB

VINE BELT AND DIST ROLLS

STARS THAT FEED THE VINE BELT *And Shell Roll*

STONE CONVEYOR

CROSS CONVEYOR

CONTROL FOR DIST STARS ON THE CROSS MOUNTED ON THE TANK

14 INCH BOOM SIDES

NO EXPANDED METAL ON THE TANK

MOUNT DIGGER BLADES IN BOTTOM - BOTTOM HOLES
USE 10 TOOTH SPROCKETS ON THE PRIMARY DRIVE