Installation of Chaff Deck for Case with MAV chopper


For videos on installation and farmer tips go to www.chaffdeck.com/resources

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CHD-CV03 - Conveyor assembly drawing	
Farmscan Jackal quick setup guide	
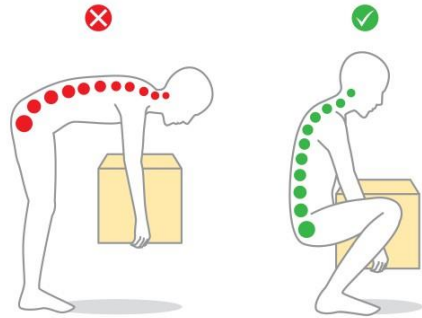
Please be aware that the following steps require moving heavy components. Lift with knees bent and back straight!
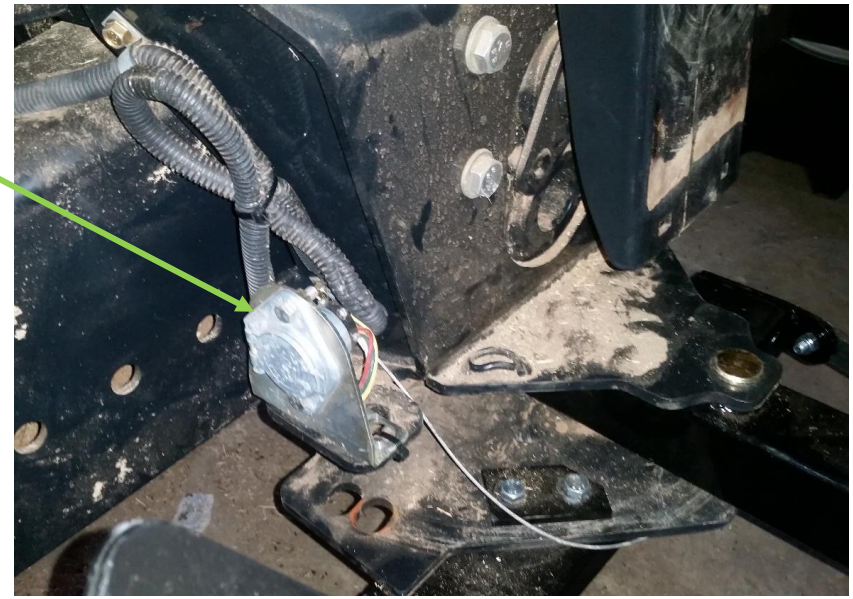
Pre-Installation Steps
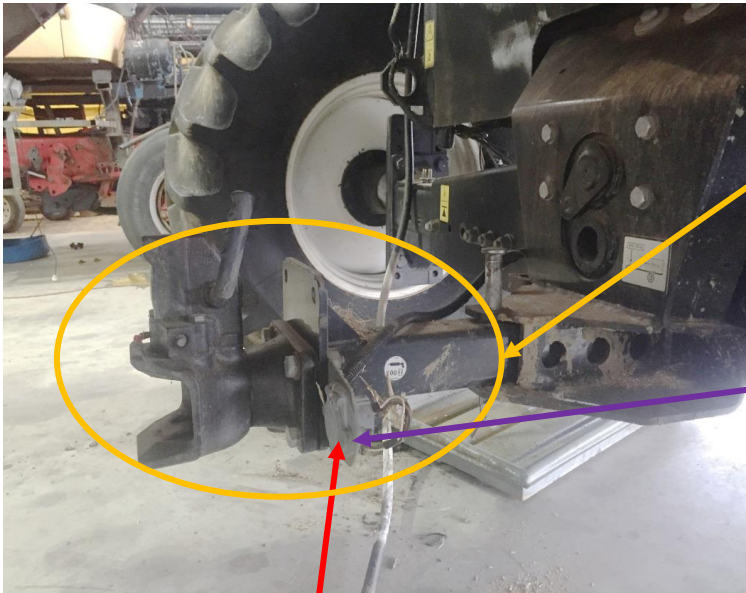
Remove the hitch and the two pins holding it up. The pins are to be reused.
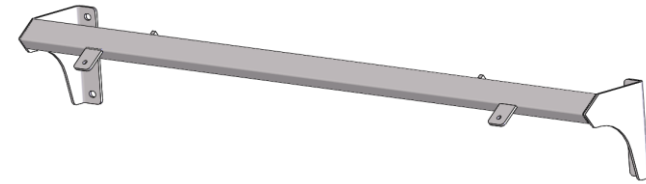
Move from HERE to THERE

Remove the trailer electrical plug by undoing the two bolts holding it on. Zip tie the cables so they are clear.

Remove shaker tray

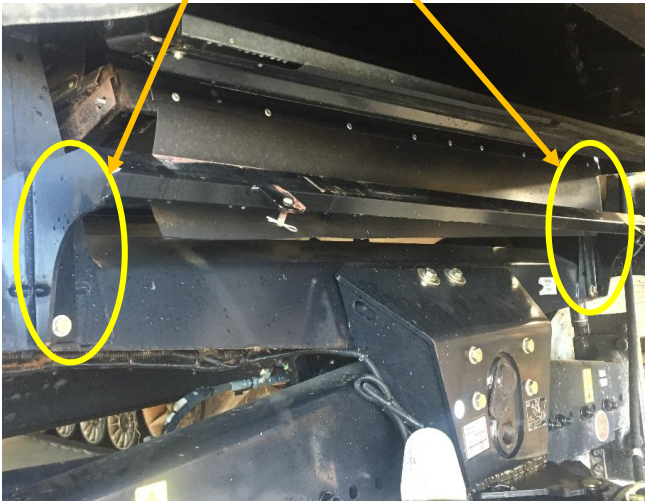Cut off shaker tray bracket to allow the chute (next page) to fit. TIP: Use a thin cutting disk so that it can easily be rewelded on in the future if required.

ECD-DOC-CAM30

Install Rear Chute mount frame

Fit the rear chute mount frame using the four bolts from the spinners that were removed earlier.

Installing the Frame Assembly

Refer to drawing CHD-CAM30 in appendix for all items listed in this section

Fit deck support frame

Ensure chaff deck support frame is square with rear axle before tightening bolts

Lift main frame up (Item 12) and put the two existing pins in.

Fit the cross-brace frame (Item 4), two side support bars (Item 13) and tighten

Fit the left & right under deck frames (Items 10 & 11)

Fit the adjuster turnbuckles (Item 9) but leave them loose

At this stage, it is easier to fit one of the hydraulic hoses in the kit. There will be one with two male quick couplers on each end (H2). Get the hose, find the centrepoint, start clamping it on from the centre, then down each under deck frame.

Installing the Chaff Decks

Refer to drawing CHD-CAM30 in appendix for all items listed in this section

Slide decks in
Note: Hydraulic
motors must be in the
centre.

Secure using
pin at front

And
latches at
rear
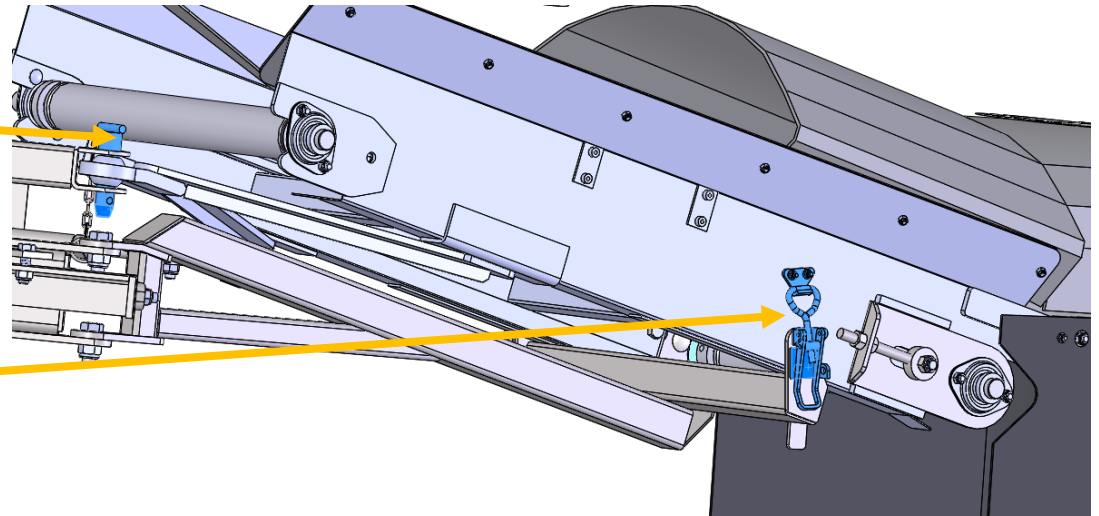
Installing the Shrouds

Refer to drawing CHD-CAM30 in appendix for all items listed in this section

Install rear curtain
Item 15

Locate the centre of the rear panel of the MAV chopper. Sit the new rear curtain on the decks. Mark and drill 7 x 6mm holes and bolt on the rear curtain
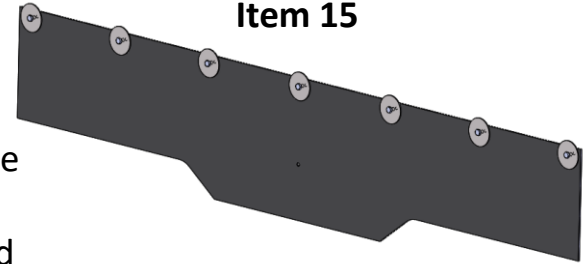
Rear curtain

Fit top hat & spring assembly

Spring assembly Item 6

Top hat Item 14
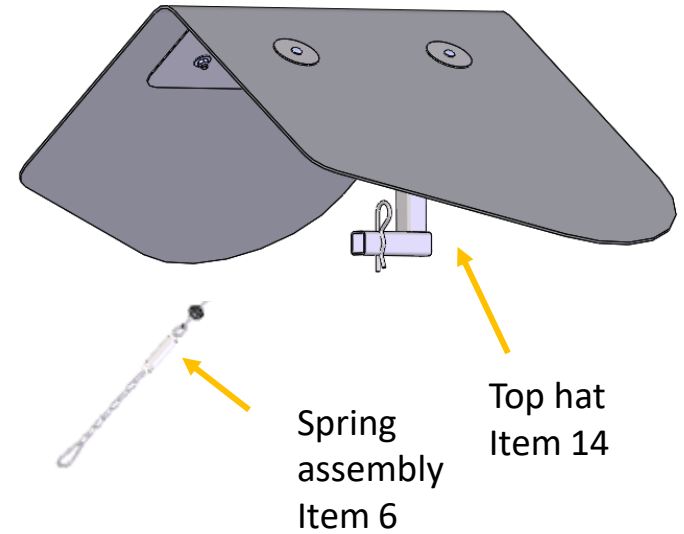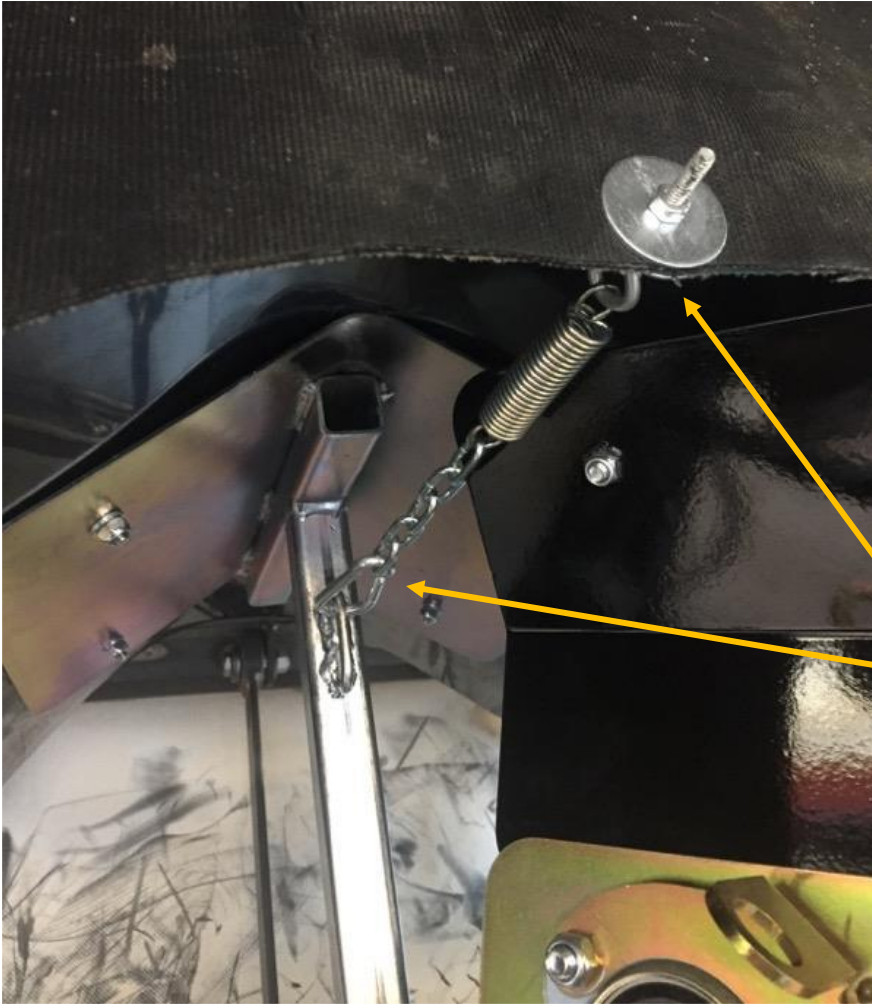
Connect rear curtain and top hat with spring assembly.

Cut the chain to adjust tension as needed. The spring should have slight tension on it to create a good seal between the top hat and rubber curtain.

Install Rear Chute

Slide rear chute in and fit pins to mount frame previously installed.
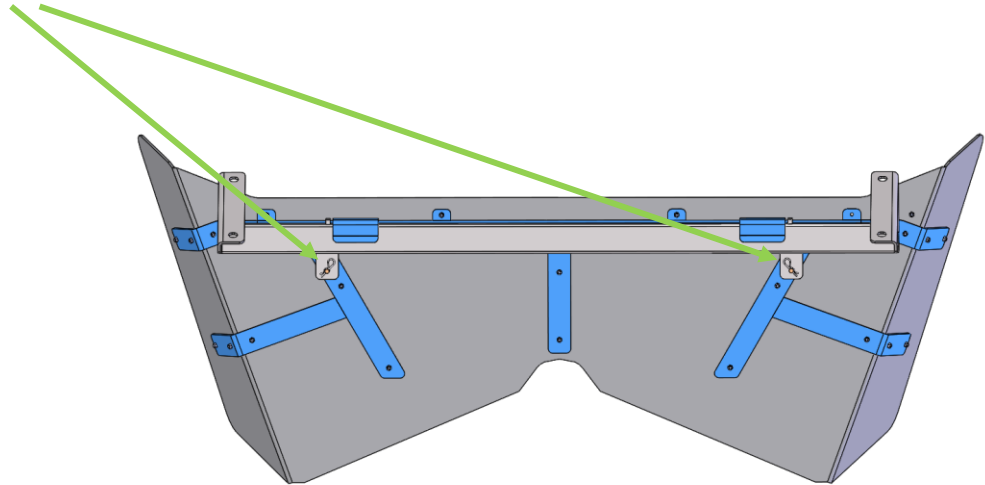
Installing the Hydraulics

Refer to drawing ECD-H011 in appendix for all items listed in this section
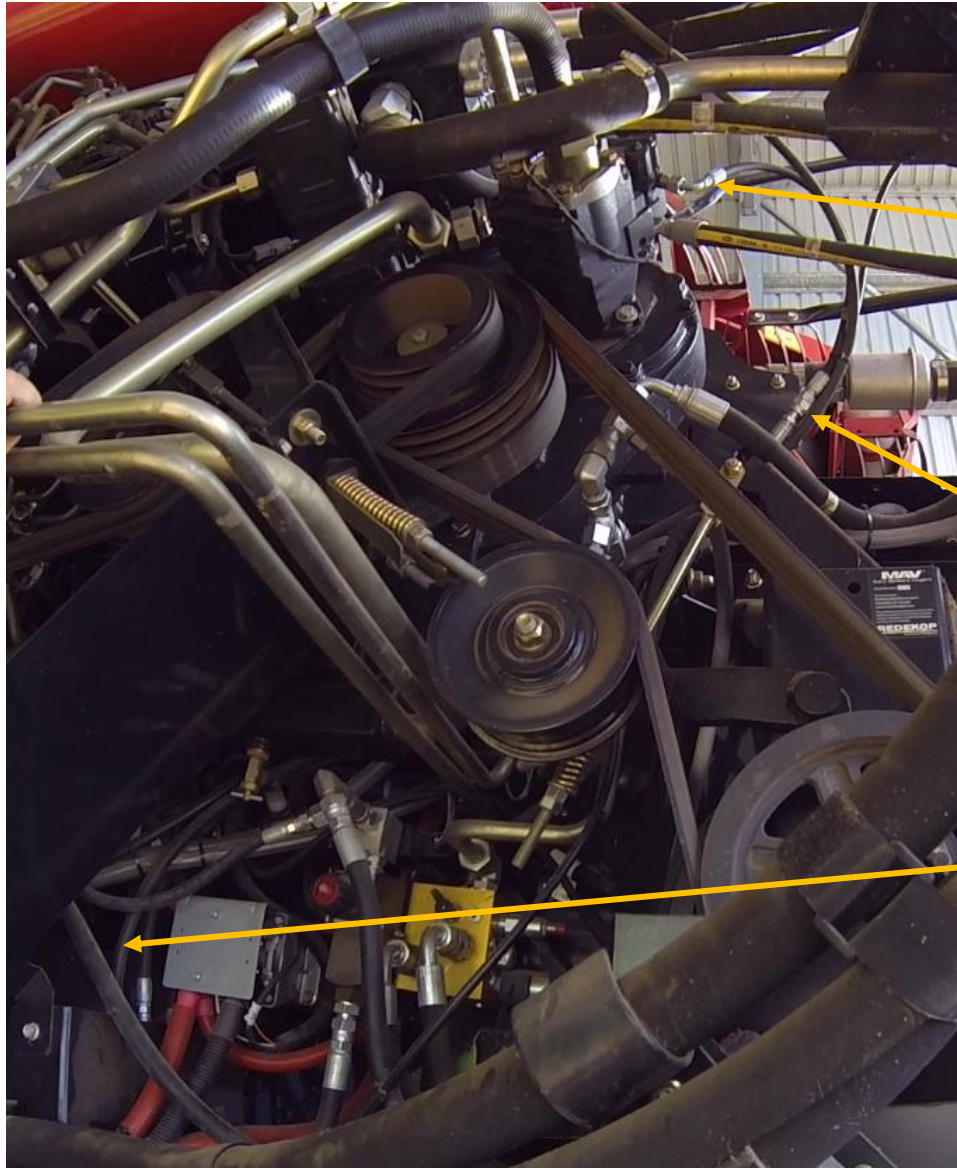
Install pump load sense hose H11

Original hose attached to load sense port on pump

New H11 hose joins to existing hose here

Hose loops around to the new shuttle valve to be installed as per the hydraulic schematic in the Appendix
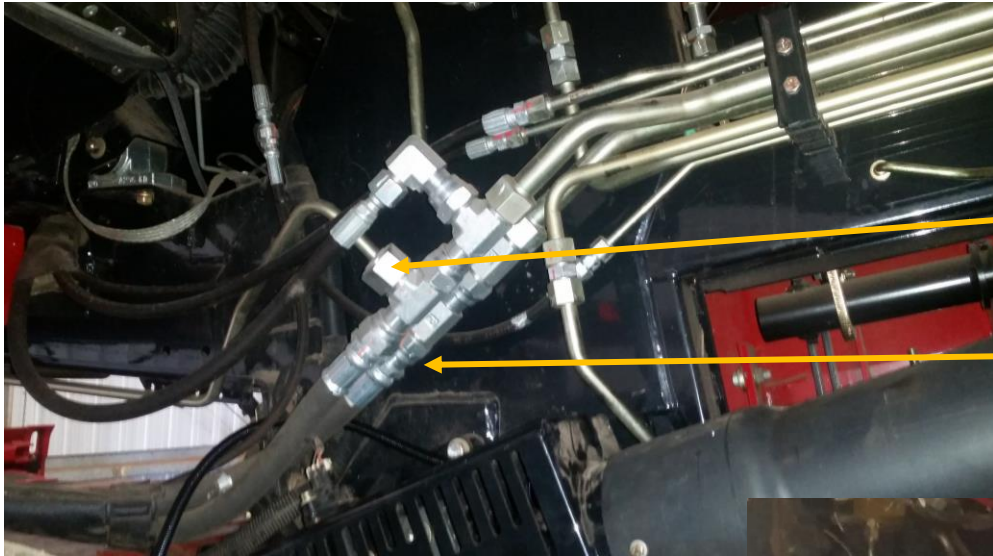
**Install supply & return hose
30/40 Series machines**

Remove cap

Disconnect
hose

BEFORE

Install return
hose H5

Insert new tee
& install supply
hose H8

AFTER
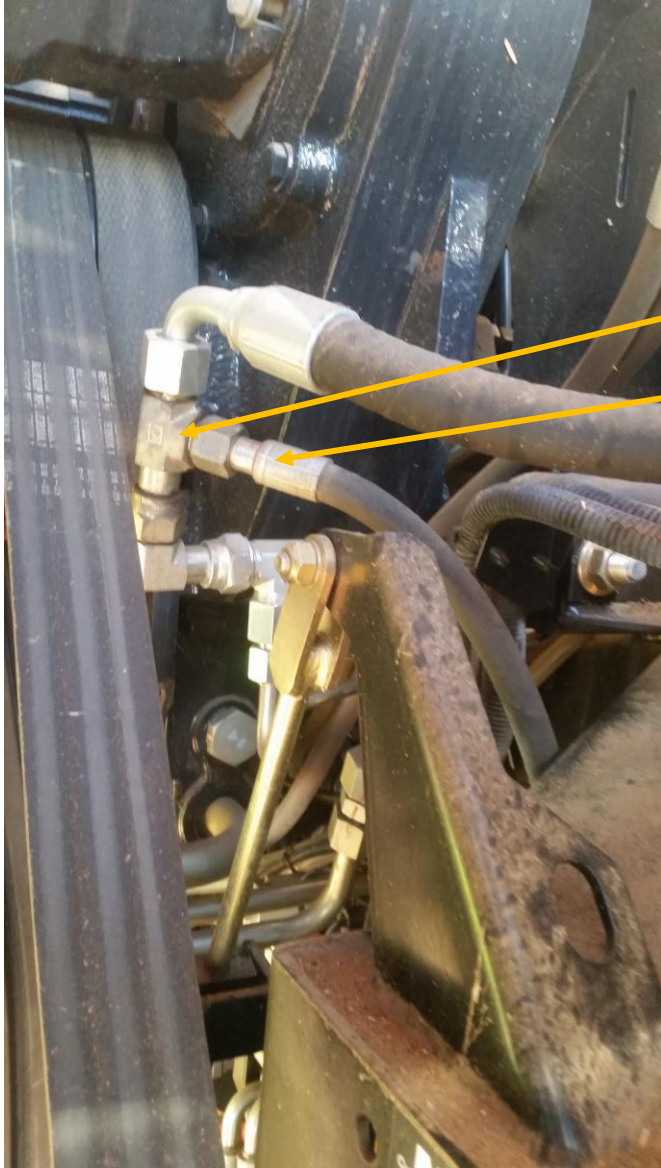
Install case drain hose H7

Insert tee

Install case drain hose

Install valves
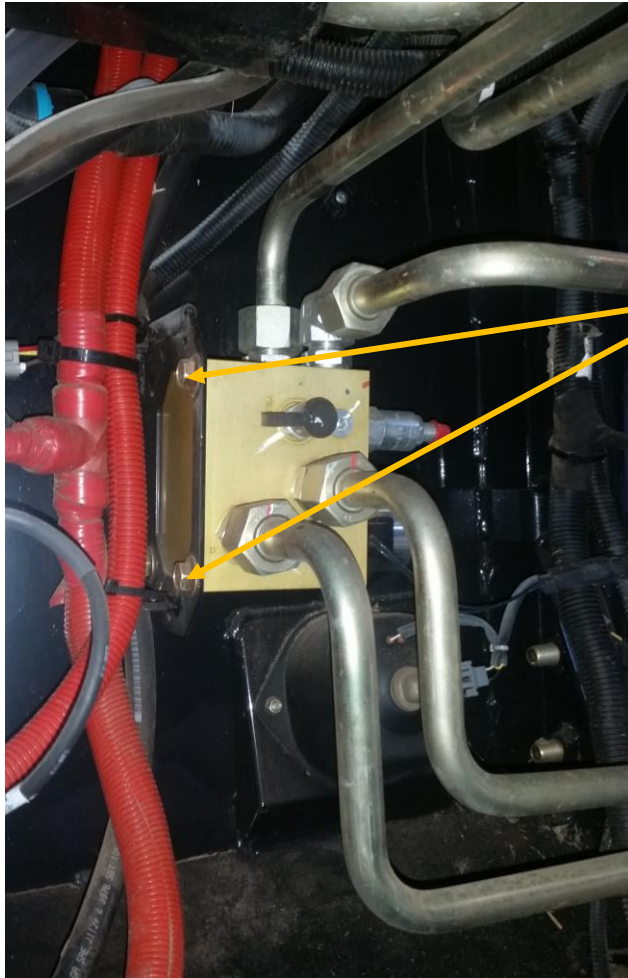
Attach new solenoid valve

Remove 2 bolts and attach new bracket

Attach new bracket and flow control valve

BEFORE
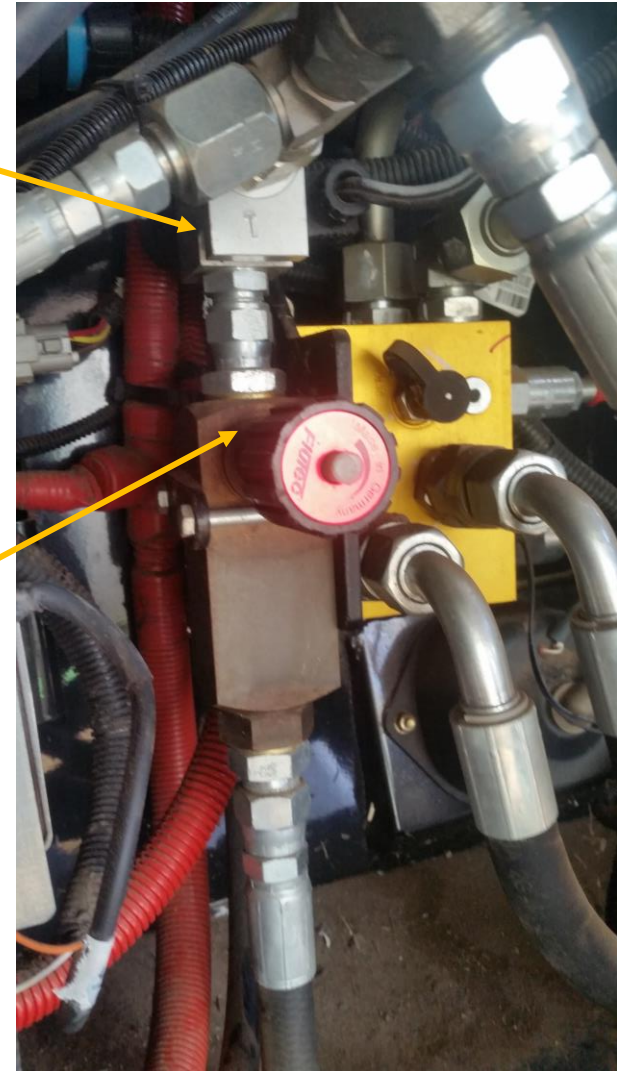
AFTER

Install coupling mount bracket
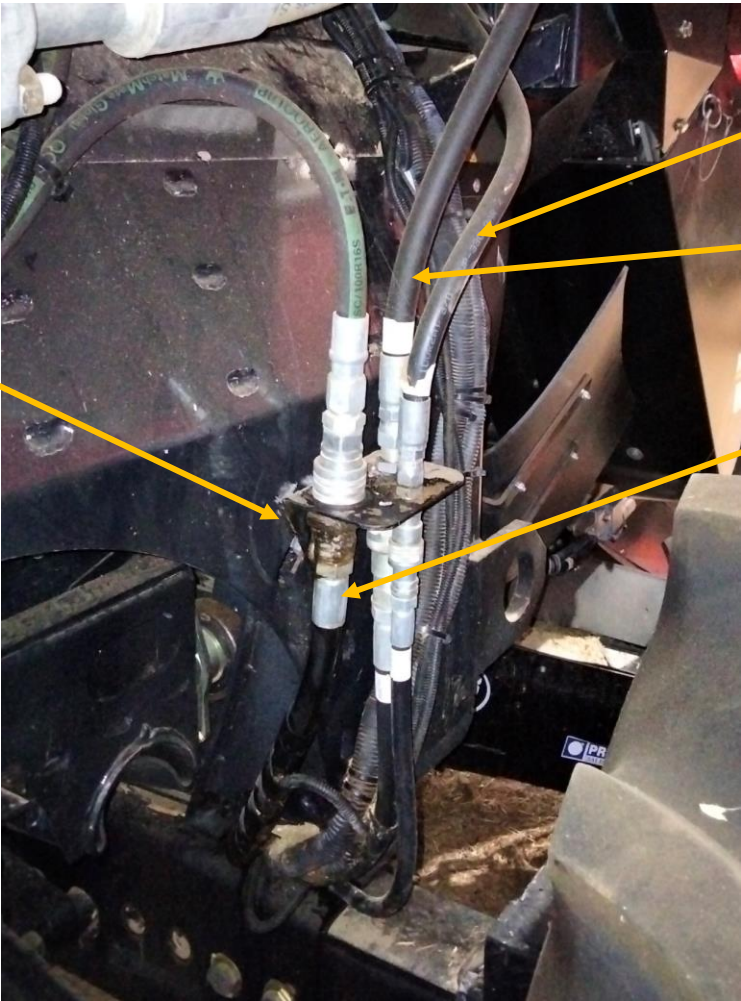
Case drain hose (to LH deck)

RH deck hose

Install coupling
mount bracket

LH deck hose

Hydraulic setup tips:
Check that the 'Low pressure standby' on
the pump is set at above 350psi.
If decks speed up when auxiliary
hydraulics are running then check that the
supplied flow control valve is working
correctly.

Adjusting the Decks

Refer to drawing CHD-CAM30 in appendix for all items listed in this section

Tension the belts on both decks.

The belt tracking is controlled by the V-guide but the adjustment bolts should be tightened evenly on both sides to prevent excessive wear or friction on the belt.

Ensure there is sufficient tension on the belt to ensure slippage doesn't occur but not so tight that there is excessive load on the hydraulic motors.

Start the machine and engage the separator, check that the belts are turning the right way.

Fit rear hoops with curtains and plastic hood on as shown.
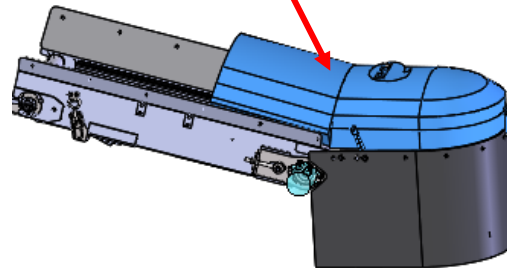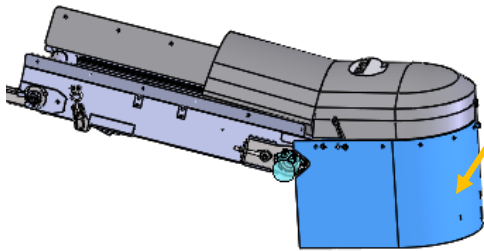
Note that the plastic hood fits on the inside of the hoop.

NOTE:
You may be required to trim the height of the rear rubber curtain to suit your requirements.

Adjust turnbuckle as required to obtain desired wheel track.

84.21

117.94°

Trim hoods to fit

365mm

275mm
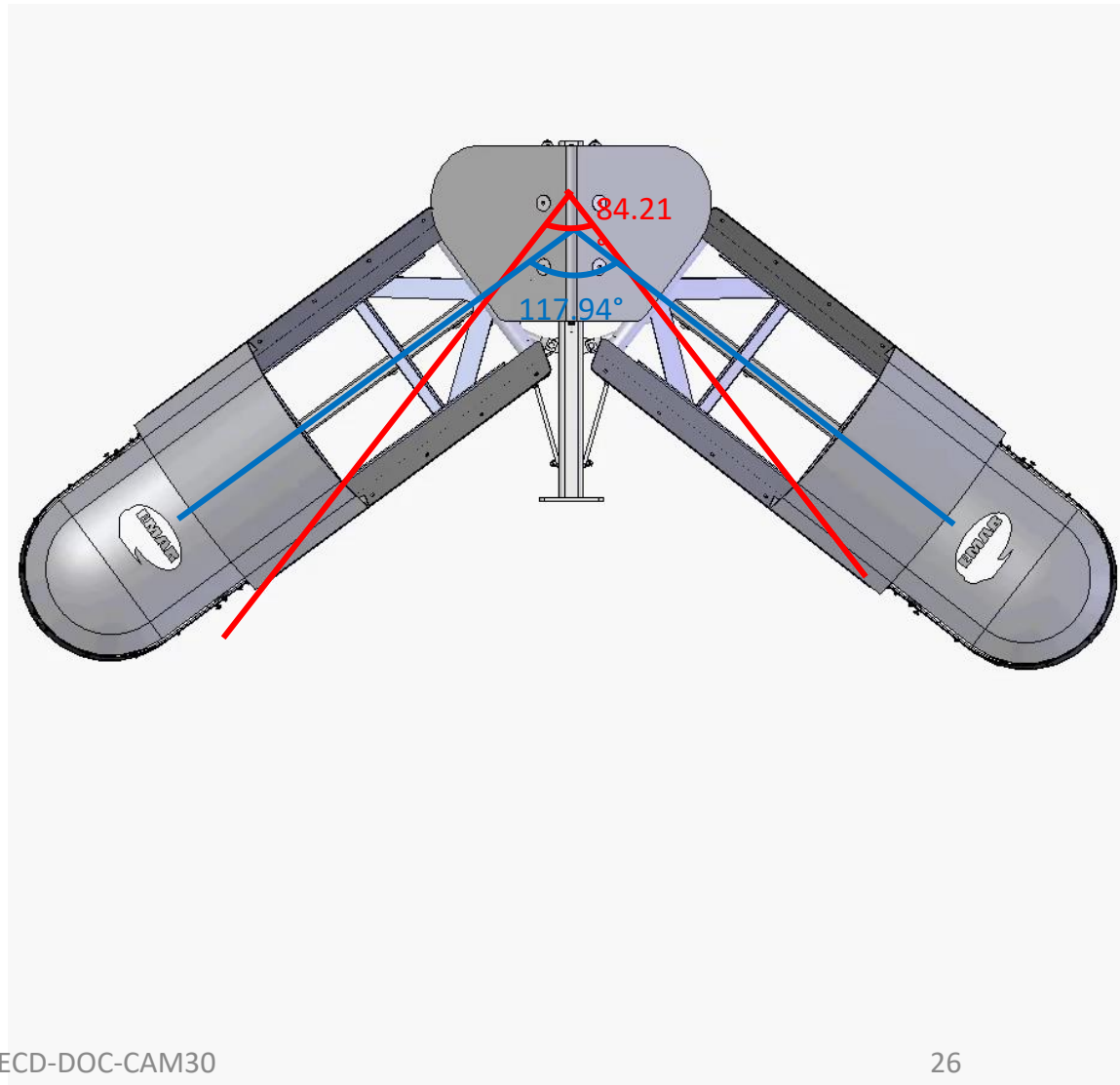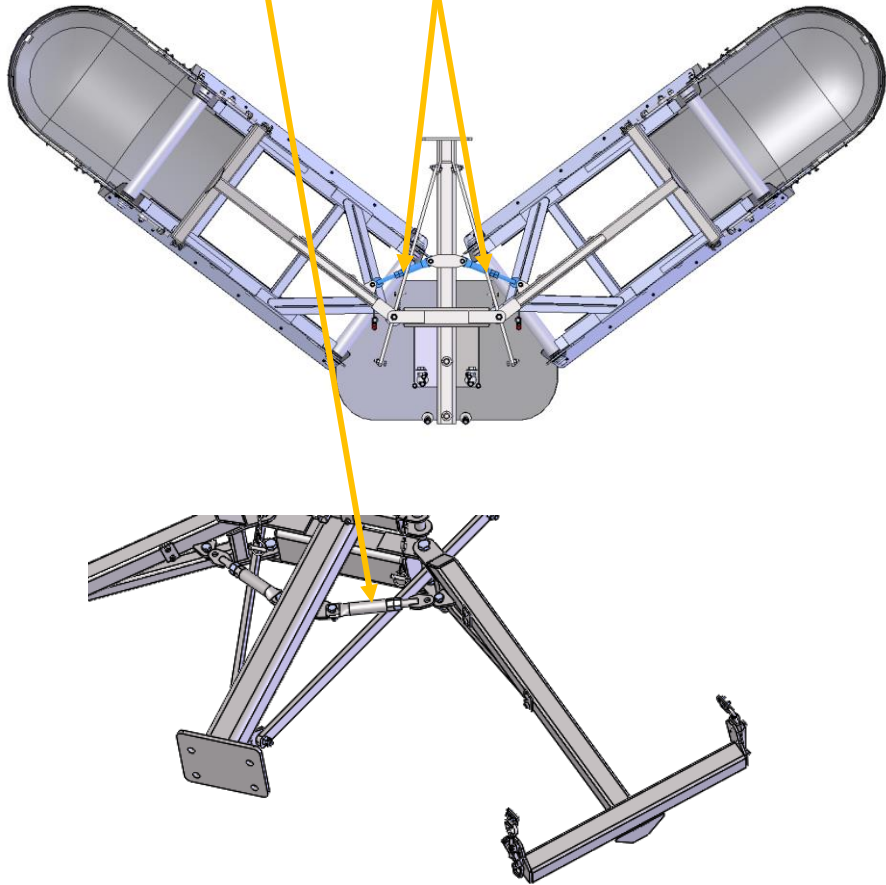
Trim the corner off the plastic hoods using approximate measurements as shown to fit

Installing the Electrics

Refer to drawing CHD-E005 in appendix for all items listed in this section
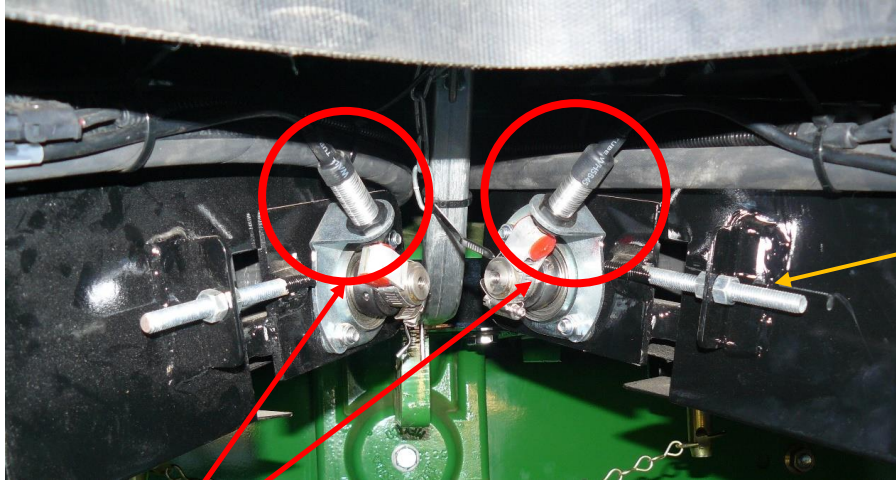
Note:
Idler roller adjuster bolts (shown) are no longer required on V-guided models

Fit the <u>speed sensors</u> to the top idler shafts (if not supplied fitted).
Fit the two extension harnesses to the speed sensors.
Wrap the hydraulic hoses and the wiring harness in the spiral wrap.
Then feed the hoses up to the flow control valve and filter housing, and attach to the hydraulic fitting.
NOTE! When fitting the wiring harness to the hydraulic hose with the spiral wrap make sure there is slack in the wiring harness, so that you don't pull the wire out of the sensor.
Keep all LHS deck hoses & cables together and all RHS deck hoses & cables together so that it is easy to remove either deck to get into the back of the combine.

FARMSCAN MONITOR

JACKAL V3

Common Deck Wires

Grey Plug

Green Plug

	GND	IN7	IN8	IN9	+OUT	OUT6	OUT5	OUT4	OUT3	TX RX RS232	
B	1	2	3	4	5	6	7	8	9	10	11	B
A	IN1	IN2	IN3	IN4	IN5	IN6	GND	OUT2	OUT1	BATT +VE	BATT -VE	A

LH Deck

RH Deck

(REED TYPE SENSORS)

−

+
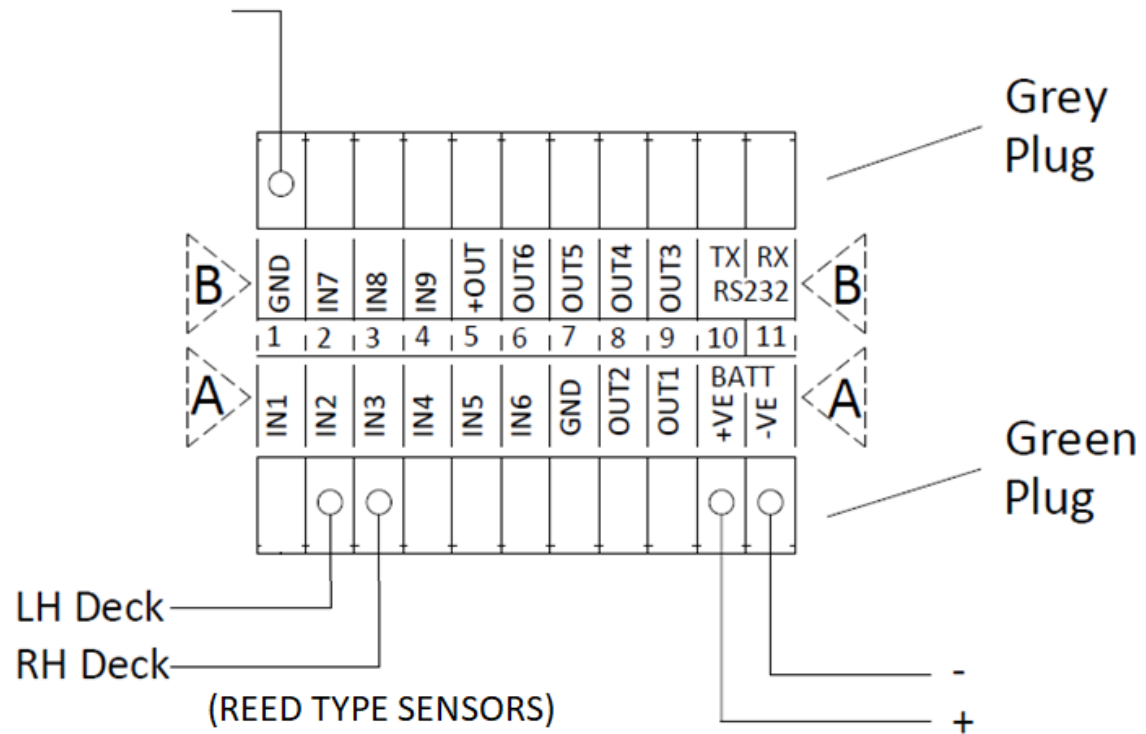
Fit the Farmscan Jackal monitor into the cab of the machine.

Run the wiring harness down out of the cab, and across to the left hand side of the machine, then back down to the where the new hydraulic quick release couplings have been installed.

Then plug the speed sensors into the harness.

Connect the monitor up as per the Farmscan Monitor Manual supplied and program the 2 x Tacho Shaft Speeds.

Minimum speed for the alarm should be set at 400rpm and maximum speed 1000rpm.

Ideal deck roller speed is between 600-800rpm.

Maintenance

Recommended frequency	Action
Daily for 1st 3 days of use	Monitor belt speeds to ensure stay identical
	Readjust conveyor belt tension
	Check for hydraulic leaks
Daily	Check condition of conveyor belts
Weekly	Check for hydraulic leaks
	Check conveyor belt tension
Preseason	Check condition of conveyor belts
	Check conveyor belt tension
	Check condition of bearings
	Check condition of shrouds
	Check condition of framework
	Check for hydraulic leaks
	Check condition of hydraulic hoses

Troubleshooting

Issue	Probable Cause	Remedy
Deck speed alarm sounding	Deck roller speed too high or low	Adjust speed on hydraulic flow controller
	Belt slipping	Readjust belt tension
	Monitor alarm set too high or low	Reset alarm speed
Deck speed not showing up on monitor	Wires incorrectly installed in monitor	Recheck wiring as per electrics section
	Monitor not programmed properly	Reprogram monitor as per monitor manual
	Sensor faulty	Replace sensor
Hydramotor seal leaking	Case drain not installed correctly	Ensure case drain goes directly to tank
	Seal worn or faulty	Replace seal
Hydraulic fittings leaking	Inadequate sealant on BSPT/NPT threads	Apply correct sealant as per hydraulic drawing
	Quick coupling O-ring damaged	Replace O-ring or coupling
Chaff not landing in Tramline	Deck angle adjustment incorrect	Adjust turnbuckles (CHD-1115)
	Deck speed incorrect	Adjust speed on hydraulic flow controller
Straw blockages in harvester	Excessively moist conditions	Wait until conditions dry out
		Install feed roller if available
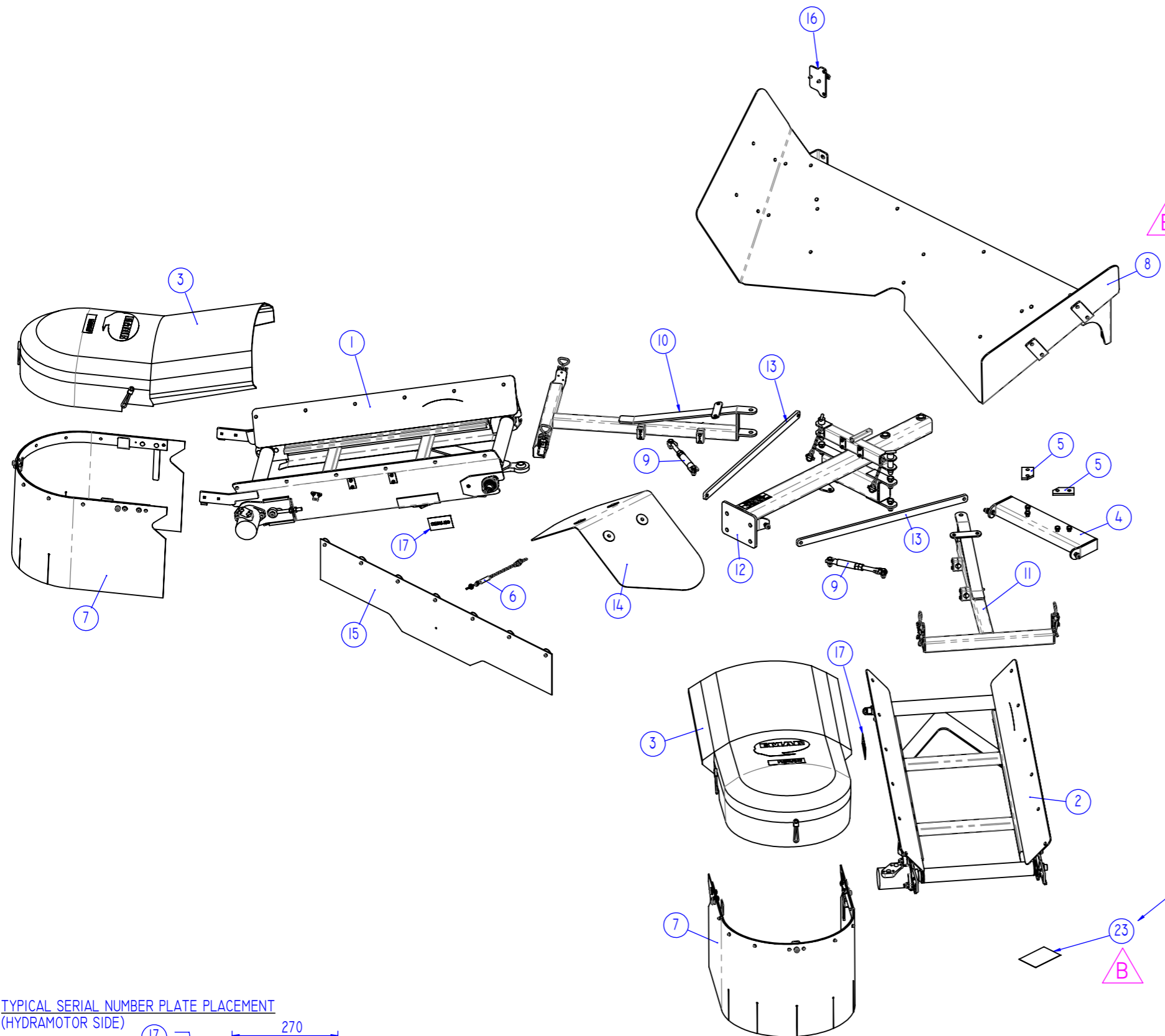
ITEM NO.	QTY.	PartNo	DESCRIPTION / MATERIAL
1	1	CHD-CV03L	Conveyor Assembly, 1190mm, LH
2	1	CHD-CV03R	Conveyor Assembly, 1190mm, RH
3	2	CHD-SHRD4	Hood Assembly
4	1	CHD-1007K	Brace Mounting Bracket (Incl. fasteners)
5	2	CHD-1008	Backing Plate, Case
6	1	CHD-1024	Front Curtain Chain/Spring Assembly
7	2	CHD-1025	Rear Hoop Assembly
8	1	CHD-1098	Sieve Chute Assembly, NH
9	2	CHD-1115	Deck Position Turnbuckle (Incl. fasteners)
10	1	ECD-1123V2K	Conveyor Support Arm V2, Full Kit (LH Orientation)
11	1	ECD-1123V2K	Conveyor Support Arm V2, Full Kit (RH Orientation)
12	1	CHD-1129MK	Rear Hitch Frame, Case MAV (Incl. Fasteners)
13	2	CHD-1130N	Tow hitch brace, CNH
14	1	ECD-1193	Top Hat Assembly, Case MAV
15	1	CHD-1064MK	Rear Curtain Asm, Case MAV
16	1	ECD-1190	Hyd Valve Brkt Asm, Case MAV
17	2	ECD-SNP	Serial No. Plate
18	1	CHD-E005	Sensor Electronics, Farmscan with feed wire (incl. Monitor, sensors, pickups, 4 cables)
19	1	ECD-H011-DC	Hydraulics, Case MAV, Deck Components
20	1	ECD-H011-HC	Hydraulics, Case MAV, Harvester Components
21	1	ECD-H011-LC	Hydraulics, Case MAV, Loose Components
22	1	ECD-DOC-CAM30	Fitting Instructions - Case MAV 30/40 Series
23	1	ECD-DECAL-HYD	Warning Decal, 150x100mm, Hydraulics

--ITEMS NOT SHOWN--

SUPPLY WITH FITTING INSTRUCTIONS.
DO NOT STICK TO ANY ITEM IN KIT.

TYPICAL SERIAL NUMBER PLATE PLACEMENT
(HYDRAMOTOR SIDE)

270
(130)
60
SERIAL NO
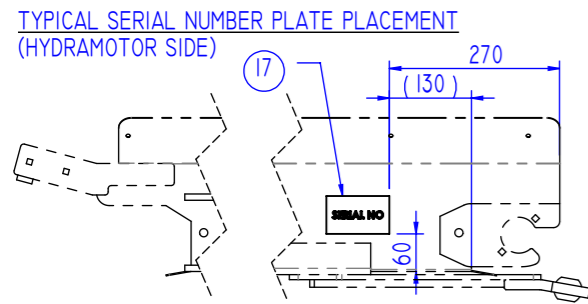
REV.	DRAWING REVISION	DATE	BY	CHKD
A	ITEMS 12 & 14 CHANGED	16/08/2019	SBJ	SBJ
B	ITEMS 10-11 P/N'S CHG'D; ADDED ITEM 23	24/06/2020	WBT	SBJ

DRAWING NOTES:

TOLERANCES IF NOT SPECIFIED
(COARSE SERIES)

LINEAR:	NOMINAL DIMENSION				
OVER		30	120	400	1000	6000
TO	30	120	400	1000	6000	
TOL.	±0.5	±0.8	±1.2	±2.0	±3.0	±5.0

ANGULAR:
FORMED: ±1°   OTHER: ±0.5°

PRIMARY SALES AUSTRALIA

DRN BY	SBJ	DRN DATE	11/7/19
CHKD BY	SBJ	CHKD DATE	11/7/19

A3

TITLE
Chaff Deck
Case, 30/40 Series with MAV

PART NO
ECD-CAM30

WEIGHT(KG)
205.7

DRAWING NO
ECD-CAM30

REVISION
B
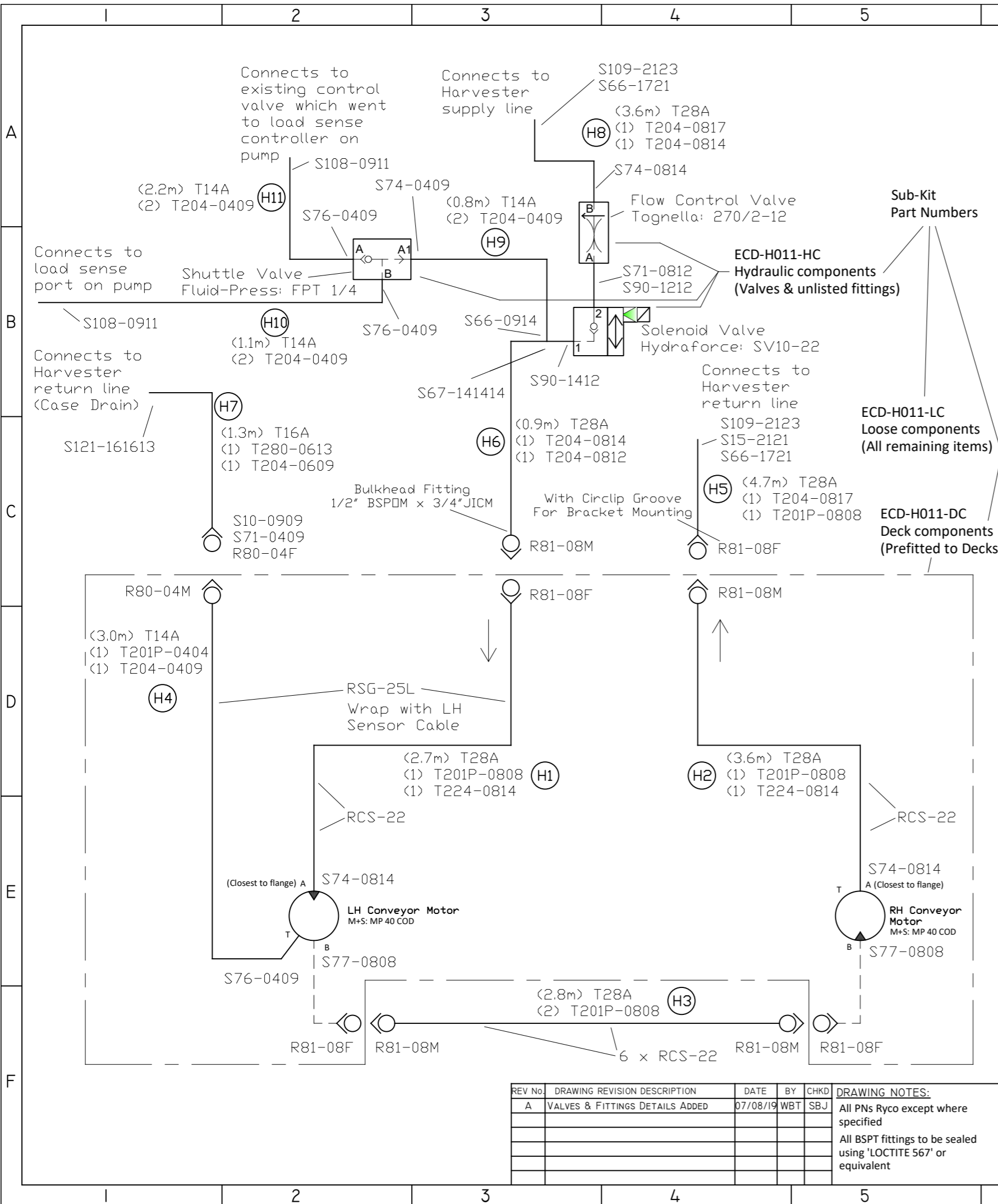
Ref Number	Description	Qty DC	Qty LC	Qty HC
R80-04M	Quick Coupling, Male, 1/4" BSPPF	1		
R80-04F	Quick Coupling, Female, 1/4" BSPPF		1	
R81-08M	Quick Coupling, Male, 1/2" x 1/2 BSPP	1	2	1
R81-08F	Quick Coupling, Female, 1/2" BSPPF (Incl. CIRCLIP GROOVE)	3		1
RCS-22	Hose Mounting Clamp Assembly, Single, 22mm	4	6	
RSG-25L	Spiral Guard, 25mm		4.0m	
S10-0909	Bulkhead, 9/16" JIC - 9/16" JIC		1	
S15-2121	Elbow, 1,5/16 JIC x 1,5/16 JICF		1	
S66-0914	Reducer, 9/16" JIC - 7/8" JICF			1
S66-1721	Reducer, 1,1/16" JIC - 1,5/16" JICF			2
S67-141414	Tee, 7/8" JIC x 7/8" JICF x 7/8" JIC			1
S71-0409	Straight, 1/4 BSPOM x 9/16 JICF			1
S71-0812	Straight, 1/2 BSPOM x 3/4 JICF			1
S74-0814	Nipple, 1/2" BSPOM - 7/8" JICM	2		1
S74-0409	Nipple, 1/4 BSPP x 9/16 JICM			1
S76-0409	Elbow, 1/4 BSPOM x 9/16 JICM	1		2
S77-0808	Elbow, 1/2" BSPTM - 1/2" BSPOM	2		
S90-1212	Nipple, 3/4 JIC x 3/4 UNO			1
S90-1412	Nipple, 7/8 JIC x 3/4 UNO			1
S108-0911	Straight, 9/16" JIC - 11/16" ORFSM			2
S109-2123	Straight, 1,5/16" JIC - 1,7/16" ORFSF			2
S121-161613	Tee, 1" ORFSM x 1" ORFSF x 1,3/16" ORFSM		1	
	Bulkhead, 1/2" BSPOM - 3/4" JICM			1
H1	Hose Asm - T28A (2.7m) - T201P-0808 (BSPPM) x T224-0814 (JICF90)	1		
H2	Hose Asm - T28A (3.6m) - T201P-0808 (BSPPM) x T224-0814 (JICF90)	1		
H3	Hose Asm - T28A (2.8m) - (2) T201P-0808 (BSPPM)		1	
H4	Hose Asm - T14A (3m) - T201P-0404 (BSPPM) x T204-0409 (JICF)	1		
H5	Hose Asm - T28A (4.7m) - T201P-0808 (BSPPM) x T204-0817 (JICF)		1	
H6	Hose Asm - T28A (0.9m) - T204-0812 (JICF) x T204-0814 (JICF)		1	
H7	Hose Asm - T16A (1.3m) - T204-0609 (JICF) x T280-0613 (ORFSF)		1	
H8	Hose Asm - T28A (3.6m) - T204-0814 (JICF) x T204-0817 (JICF)		1	
H9	Hose Asm - T14A (0.8m) - (2) T204-0409 (JICF)		1	
H10	Hose Asm - T14A (1.1m) - (2) T204-0409 (JICF)		1	
H11	Hose Asm - T14A (2.2m) - (2) T204-0409 (JICF)		1	
270/2-12 GAS	Flow Control Valve (Tognella: 270/2-12 GAS or equivalent)			1
FPT 1/4	Shuttle Valve (Fluid-Press: FPT 1/4 or equivalent)			1
SV10-22	Solenoid Valve (Hydraforce: SV10-22 or equivalent)			1
	Hardware			
ECD-1191	Quick Coupling Bracket			1
	M10x25mm Hex Bolt			2
	M10 Nyloc Nut			2
	Circlip, External 35mm			2

Connects to existing control valve which went to load sense controller on pump

Connects to Harvester supply line

S109-2123
S66-1721

(3.6m) T28A
(1) T204-0817
(1) T204-0814

H8

S74-0814

(2.2m) T14A
(2) T204-0409

H11

S108-0911

S74-0409

(0.8m) T14A
(2) T204-0409

S76-0409

H9

Flow Control Valve
Tognella: 270/2-12

B'
A

Sub-Kit
Part Numbers

ECD-H011-HC
Hydraulic components
(Valves & unlisted fittings)

Connects to load sense port on pump

Shuttle Valve
Fluid-Press: FPT 1/4

A A1
B

S108-0911

H10

(1.1m) T14A
(2) T204-0409

S76-0409

S66-0914

S71-0812
S90-1212

2
1

Solenoid Valve
Hydraforce: SV10-22

Connects to Harvester return line
(Case Drain)

S121-161613

H7

(1.3m) T16A
(1) T280-0613
(1) T204-0609

S67-141414

S90-1412

H6

(0.9m) T28A
(1) T204-0814
(1) T204-0812

Connects to Harvester return line

S109-2123
S15-2121
S66-1721

H5

(4.7m) T28A
(1) T204-0817
(1) T201P-0808

ECD-H011-LC
Loose components
(All remaining items)

ECD-H011-DC
Deck components
(Prefitted to Decks)

Bulkhead Fitting
1/2" BSPOM x 3/4"JICM

With Circlip Groove
For Bracket Mounting

S10-0909
S71-0409
R80-04F

R81-08M

R81-08F

R80-04M

R81-08F

R81-08M

(3.0m) T14A
(1) T201P-0404
(1) T204-0409

H4

RSG-25L
Wrap with LH
Sensor Cable

(2.7m) T28A
(1) T201P-0808
(1) T224-0814

H1

(3.6m) T28A
(1) T201P-0808
(1) T224-0814

H2

RCS-22

RCS-22

(Closest to flange) A

S74-0814

LH Conveyor Motor
M+S: MP 40 COD

T

B

S76-0409

S77-0808

T

B

S74-0814
A (Closest to flange)

RH Conveyor Motor
M+S: MP 40 COD

S77-0808

(2.8m) T28A
(2) T201P-0808

H3

R81-08F   R81-08M

6 × RCS-22

R81-08M   R81-08F

Required for Case MAV kits
with hydraulic feed roller

REV No.	DRAWING REVISION DESCRIPTION	DATE	BY	CHKD
A	Valves & Fittings Details Added	07/08/19	WBT	SBJ

DRAWING NOTES:
All PNs Ryco except where specified

All BSPT fittings to be sealed using 'LOCTITE 567' or equivalent

A3
SCALE NTS

DRAWN BY   SBJ   11/7/19
CHKD BY   SBJ   11/7/19

CHAFF DECK
HYDRAULICS, CASE MAV

DRAWING NUMBER
ECD-H011

REV No.
A

	1	2	3	4	5	6	7	8	9

Wire Colour Legend

Black	BK
White	WE
Red	RD
Green	GN
Yellow	YW
Blue	BE
Orange	OE
Brown	BN
Grey	GY
Pink	PK
Purple	PE
Lime	LE
Tan	TN
Cyan	CN

Note:
Pin-Wire connections shown Pin Out
Ie. Viewed from front (Outside) of connector

REF	QTY	PART NO.	DESCRIPTION / MATERIAL
1	1	-	CABLE ASSEMBLY, MONITOR
2.1	1	CHD-E004 (ITEM 1)	CABLE ASSEMBLY, MONITOR
2.2	1	CHD-E004 (ITEM 2)	CABLE ASSEMBLY, LH SENSOR
2.3	1	CHD-E004 (ITEM 3)	CABLE ASSEMBLY, RH SENSOR
3	1	-	HARVESTER MONITOR, FARMSCAN JACKAL V3, c/w SENSORS, HARDWARE PN: JACKAL-ESP (AA-110G-D)
3.1	1	-	MONITOR
3.2	1	-	POWER CABLE
3.3	1	-	SENSOR (WITH DEUTSCH PLUGS)
3.4	1	-	SENSOR PICKUP MAGNET
3.5	1	-	SENSOR PICKUP CLAMP

Item 3.1
Monitor

GND IN2 IN3 IN4   BATT
B1 A2 A3 A4   +VE -VE
                  A10 A11
WE RD YW GN   RD RD/BK

Item 3.2
Power Cable

RD +12V

RD/BK GND

Sensor Pickup Sub-Assembly
2 required per unit

3.4   3.5

Idler Roller

Item 1
Cable Assembly, Monitor

WE wires spliced here

4 Core Cable,
3m Wire,
11m Long

Wire ends to
be stripped
for attaching
to monitor

2 Core Cable,
3mm Wire,
0.35m Long

GN   WE

DT06-2S
Deutsch 2 Pin
Male Plug
(To Be Supplied With Sealing Plug)

3 Core Cable,
3mm Wire,
0.05m Long

See: CHD-E004

Item 2.1
CHD-E004 (Item 1) Cable Assembly, Monitor

WE   YW

RD   BK

Item 2.3
CHD-E004 (Item 3) Cable Assembly, RH Sensor

RD   BK

BK   WT

DT04-2P
Deutsch 2 Pin
Female Receptacle

Item 3.3
Sensor (with Deutsch plugs)

Mounts on RH
Conveyor sensor
bracket

YW   WE

WE   YW

RD

DT04-3P
Deutsch 3 Pin
Female Receptacle

Item 2.2
CHD-E004 (Item 2) Cable Assembly, LH Sensor

RD   WE

BK   RD

RD   BK

BK   WT

DT04-2P
Deutsch 2 Pin
Female Receptacle

Mounts on LH
Conveyor sensor
bracket

A3
SCALENTS

CHAFF DECK
SENSOR WIRING, FARMSCAN

DRAWN BY	WBT	22/5/17	DRAWING NUMBER	REV No.
CHKD BY	SBJ	25/5/17	CHD-E005	B

(1321)
(733)
(1369)
(1190)
(647)
(538)
(294)
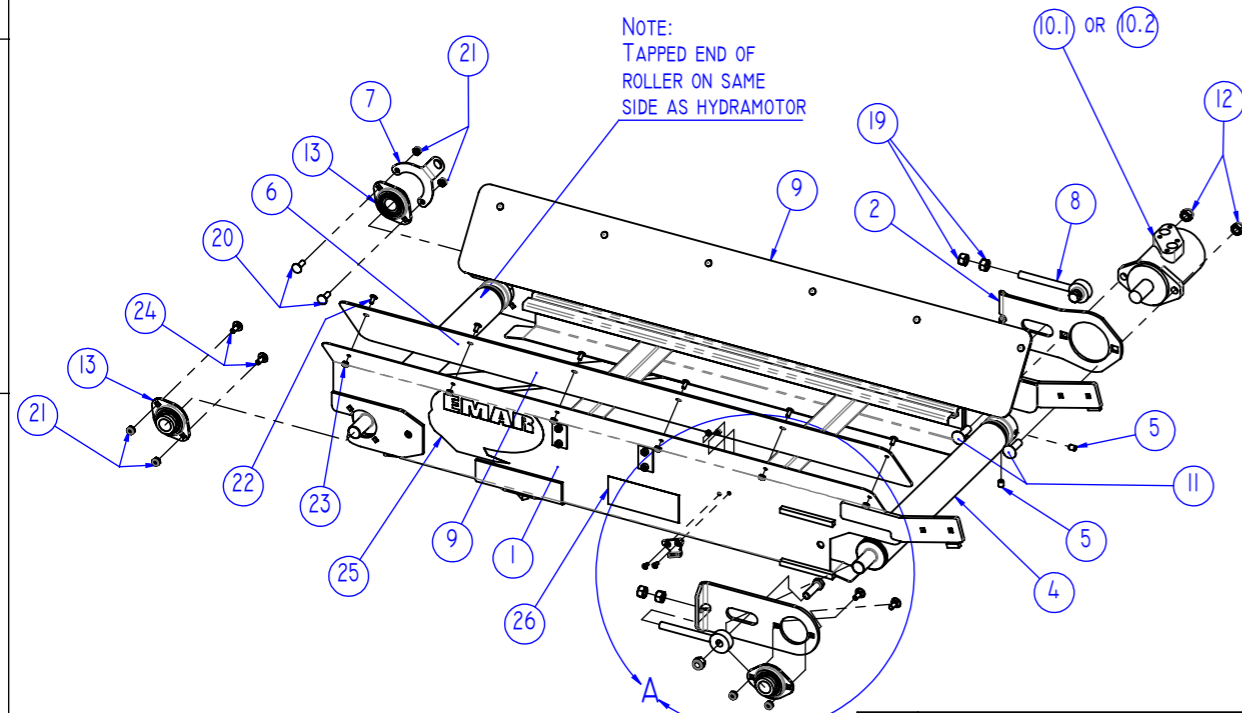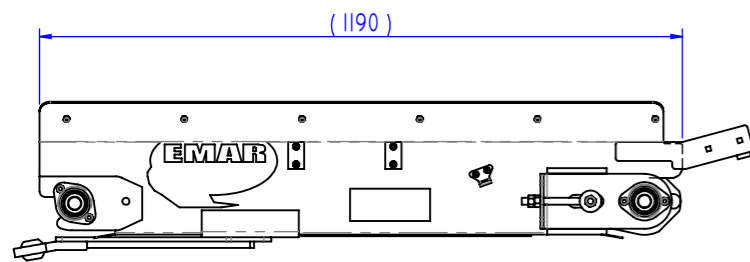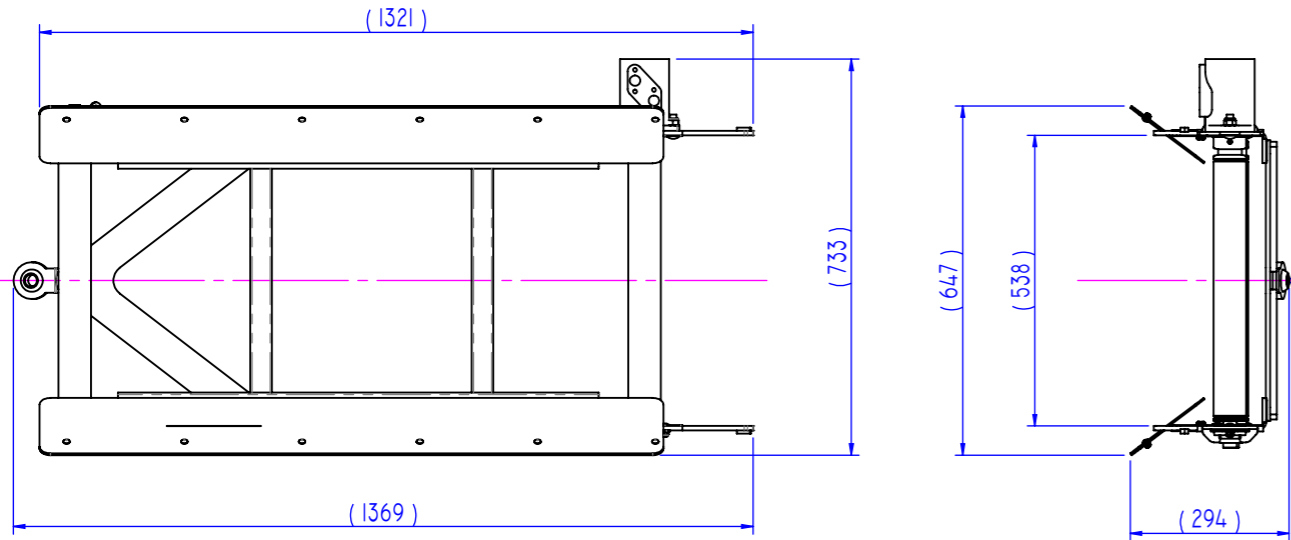
ITEM NO.	CHD-CV03L QTY.	CHD-CV03R QTY.	CHD-CV03HL QTY.	CHD-CV03HR QTY.	PartNo	DESCRIPTION / MATERIAL
1	1	1	1	1	CHD-CV03-TRV4	Conveyor Tray, 1190mm, V-Guided
2	1	1	1	1	CHD-CV-RMDIV2	Drive Roller Hydramotor Mount
3	1	1	1	1	CHD-CV-RMD2V2	Drive Roller Bearing Mount
4	1	1	1	1	CHD-CV-RDV3	Drive Roller with V-Groove
5	2	2	2	2	-	Socket Set Screw Flat Point 3/8 UNC x 1/2"
6	1	1	1	1	CHD-CV-RIV3	Idler Roller with V-Groove
7	1	1	1	1	CHD-CV-RSB	Roller Speed Sensor Bracket
8	2	2	2	2	CHD-1049	Conveyor Eyebolt
9	2	2	2	2	CHD-1071V2	Conveyor Side Shroud, 1190mm
10.1	1	1	-	-	HYD-MP80COD	Hydramotor, M+S PN: MP40 COD
10.2	-	-	1	1	UCA-H01	Hydramotor, M+S PN: MP30 COD
11	2	2	2	2	B-112-12-CH-G5	Cup Head Bolt 1-2" UNC x 1.5" G5
12	4	4	4	4	B-N12-UNC-NYL	Nyloc nut - 1-2" UNC
13	3	3	3	3	-	Flange Bearing Unit, 25mm, SKF PN: PFT 25 TF
14	2	2	2	2	-	OJOP Catch Plate, UES PN: 41Z
15	4	4	4	4	-	Socket C/sunk Head Screw - M5 x 12 G8.8
16	-	-	-	-	-	(DELETED)
17	4	4	4	4	B-NM05-NYL	Nut - Nyloc M5 Z/P
18	2	2	2	2	B-134-12-UNC-G5	Hex Bolt 1-2" x 1,3-4" UNC G5 ZP
19	4	4	4	4		Hex Nut 1-2" UNC
20	2	2	2	2	B-M08-025-CH	Cup Head Bolt M8 x 25mm
21	6	6	6	6	B-NM08-NYL	Nut - Nyloc M8 Z/P
22	12	12	12	12	B-M06-012-RB	Bolt, Roofing, Comb. Head - M6 x 12mm ZP
23	12	12	12	12	B-NM06-NYL	Nut - Nyloc M6 Z/P
24	4	4	4	4	B-M08-020-CH	Cup Head Bolt M8 x 20mm
25	1	1	1	1	ECD-DECAL-LOGO	EMAR Logo Decal, 240x150mm
26	1	1	1	1	PSA-DECAL-LOGO-148X60	PSA Logo, 148x60mm
27	1	1	1	1	W-ECD-VG20-PS	Belting, V-Guided, 20", 2.38m Length
28	1	1	1	1	W-ECD-VG20-JN-PS	Belting Joiner, 20"

K

L

NOTE:
TAPPED END OF
ROLLER ON SAME
SIDE AS HYDRAMOTOR

(10.1) OR (10.2)

DETAIL A

K

DECAL PLACEMENT:
(LH DECK SHOWN - DECALS ON NON-HYDRAMOTOR SIDE)
(RH DECK OPPOSITE)

440
(205)
50
(575)
723
25
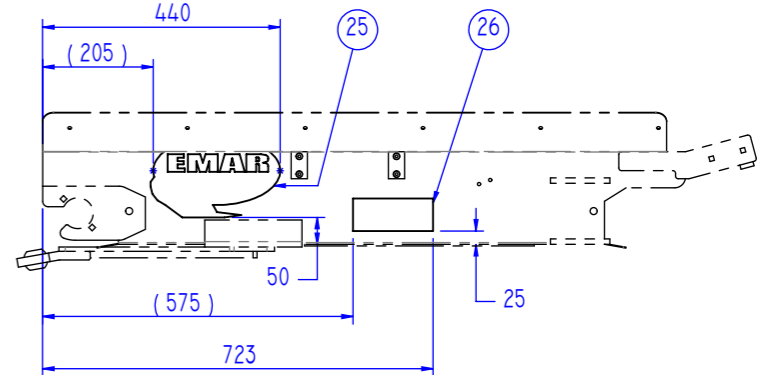
PART NUMBER	DESCRIPTION	ORIENTATION	NOTE
CHD-CV03L	LEFT HAND VERSION	AS SHOWN	MP40 COD MOTOR
CHD-CV03R	RIGHT HAND VERSION	OPPOSITE HAND	
CHD-CV03HL	LEFT HAND VERSION	AS SHOWN	MP30 COD MOTOR
CHD-CV03HR	RIGHT HAND VERSION	OPPOSITE HAND	

ITEM (11) - MODIFICATION
CUT SIDE OF HEAD TO
CLEAR HYDRAMOTOR

REV.	DRAWING REVISION	DATE	BY	CHKD
A	ITEM 16 REPLACED - WAS CHD-CV-ESA	08/05/2015	SBJ	AMC
B	CORRECTED LENGTH OF ITEM 27	12/06/2015	SBJ	AMC
C	ITEMS 1-4, 9-11 CHNGD, 29 ADDED, 18,20,21,25 QTY CHNGD	15/06/2015	SBJ	AMC
D	CORRECTED LENGTH OF ITEM 27	30/06/2015	SBJ	WBT
E	BELT NOW V-GUIDED, ITEMS 1, 10 & 11 CHANGED TO SUIT	24/05/2016	SBJ	AMC
F	ITEM 1, 12 & 14 CHG'D; IDLER ADJUSTER PARTS REMOVED; HYDRAMOTOR DELETED, ALREADY IN HYD. SCHEMATIC	06/02/2018	WBT	SBJ
G	ITEM 18 CHANGED FROM PFT 25 FM TO PFT 25 TF	28/06/2018	ELKT	SBJ
H	ENTIRE BOM REWORKED FOR RESTRUCTURE PROJECT	12/03/2019	WBT	SBJ
J	ADDED CONFIGS FOR MP30 COD MOTOR; ITEM 20 & ITEM 24 QTY'S CHG'D	17/06/2019	WBT	SBJ
K	ITEM 15 CHG'D; ITEM 16 DELETED	01/08/2019	WBT	SBJ
L	ITEM 26 P/N CHG'D	26/06/2020	WBT	SBJ
M	ITEM 7 LOCATION CORRECTED, ITEM 19 MOVED	13/01/2022	IUR	SBJ

DRAWING NOTES:

TOLERANCES IF NOT SPECIFIED
(COARSE SERIES)

LINEAR:	NOMINAL DIMENSION					
OVER		30	120	400	1000	6000
TO	30	120	400	1000	6000	
TOL.	±0.5	±0.8	±1.2	±2.0	±3.0	±5.0

ANGULAR:
FORMED: ±1° OTHER: ±0.5°

PRIMARY SALES AUSTRALIA

DRN BY SBJ	DRN DATE 9/9/14
CHKD BY AMC	CHKD DATE 10/9/14

A3

TITLE
CHAFF DECK
CONVEYOR ASSEMBLY, 1190MM

PART NO -

WEIGHT(KG) 46.4

DRAWING NO CHD-CV03

REVISION M

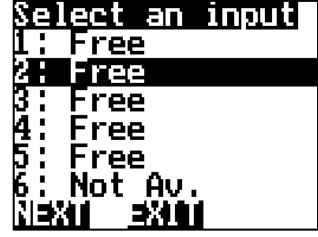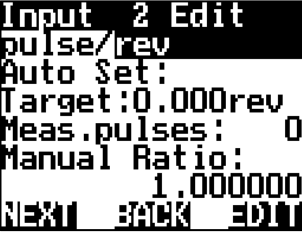# Quick Guide – Jackal RPM (Chaff Cart)

FARMSCAN AG

RUN

ALARM TRIP SETUP

Press **SETUP**

Setup
Wizard
Inputs
Front Screen
Other Settings
Outputs
GPS / Serial
EXIT   SELECT

Select **Wizard**
Press > **SELECT**

Configure a
Sprayer
Area/Speed Wheel
Area/Speed GPS
TachoMeter
FlowMeter
Slippage Meter
EXIT   NEXT
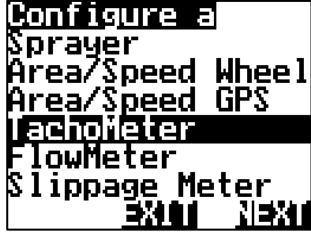
Select **TachoMeter**
Press > **NEXT**

Select an input
1: Free
2: Free
3: Free
4: Free
5: Free
6: Not Av.
NEXT   EXIT

Select Input **2: Free**
Press > **NEXT**

Input 2 Edit
pulse/rev
Auto Set:
Target:0.000rev
Meas.pulses: 0
Manual Ratio:
     1.000000
NEXT BACK EDIT

Press > **NEXT**

Units of Display
1: rpm
2: Hz

NEXT   BACK

Press > **NEXT**

Alarm Settings
Alarm Min: 0.00
Alarm Max: 0.00

NEXT BACK EDIT
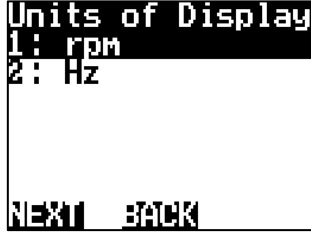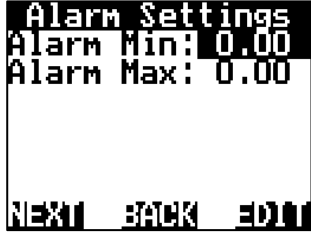
Press > **EDIT** to change
the Alarm Min Value

Alarm Min
      000.0000

EXIT DEL INS

Press the "LEFT" arrow
2 times (This will add 2
more "0" to the value.

Alarm Min
      250.0000

EXIT DEL INS

Using the
"Up/Down/Left/Right"
arrows, change the
value to 250.
Press > **EXIT**

Alarm Settings
Alarm Min: 250.0
Alarm Max: 0.00

NEXT BACK EDIT
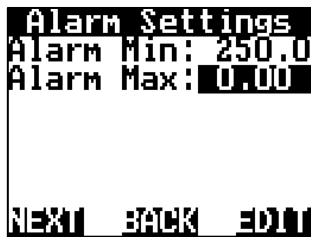
Press the "Down" arrow
to highlight Alarm Max
Value.
Press > **EDIT**

Alarm Max
      0000.0000

EXIT DEL INS

Press the "LEFT" arrow
3 times (This will add 2
more "0" to the value.

Alarm Max
      1000.0000

EXIT DEL INS

Using the "Up/Down"
arrows, change the
value to 1000.
Press > **EXIT**

Alarm Settings
Alarm Min: 250.0
Alarm Max: 1000.

NEXT BACK EDIT

Press > **NEXT**

Select a Name

Current:
    TACH

NEXT BACK EDIT
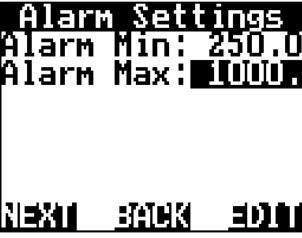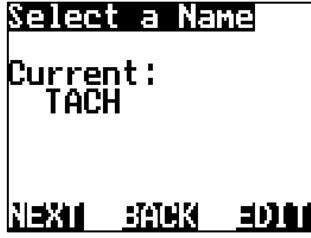
Press > **EDIT** to change
the name of the Input

Custom Name
LH DECK

EXIT DEL INS

Using the
"Up/Down/Left/Right"
arrows, change the
value to **LH DECK**.
Press > **EXIT**

Select a Name

Current:
    LH DECK

NEXT BACK EDIT

Press > **NEXT**

Wizard
Configuration
Successful

NEXT

Press > **NEXT**

RUN
LH DECK
600.00rpm

ALARM TRIP SETUP

Setup complete &
returns to **RUN SCREEN**

This completes the
Wizard Setup for:
Input 2: (LH DECK)
Repeat the procedure
with the following
changes
Input # 3 (RH DECK)
Input # 4 (ROLLER)

RUN
600.00 LH D rpm
600.00 RH D rpm
300.00 ROLL rpm
ALARM TRIP SETUP

Common Questions & Answers

How do I change the decimal place values?

Press **SETUP** > Down arrow to **"Front Screen"** & press **SELECT** > "Select the line to edit" > Press **EDIT** > "Scroll down to Decimals" and use the Left/Right arrows to change the Decimal value required > Press **EXIT (3 Times)** to return to the **RUN SCREEN**

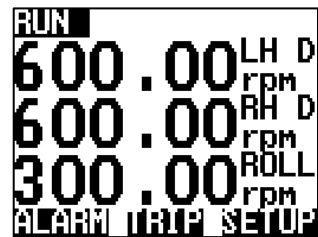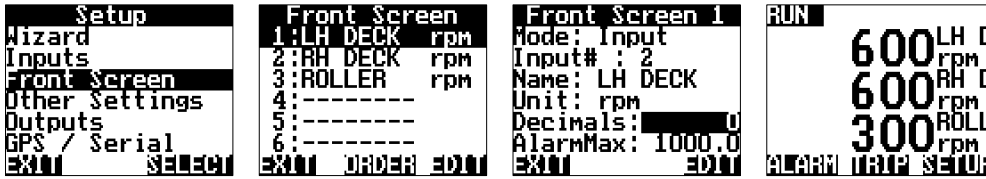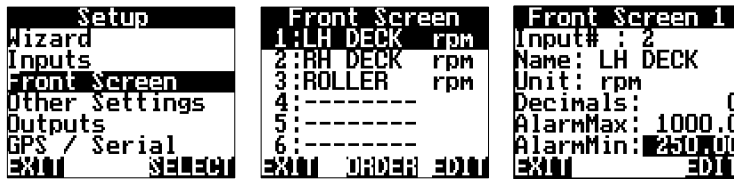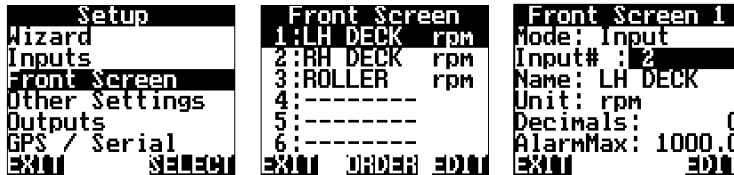| Setup	Front Screen	Front Screen 1	RUN
Wizard	1:LH DECK rpm	Mode: Input	600 LH D rpm
Inputs	2:RH DECK rpm	Input# : 2	600 RH D rpm
Front Screen	3:ROLLER rpm	Name: LH DECK	300 ROLL rpm
Other Settings	4:-------	Unit: rpm	
Outputs	5:-------	Decimals: 0	
GPS / Serial	6:-------	AlarmMax: 1000.0	
EXIT SELECT	EXIT ORDER EDIT	EXIT EDIT	ALARM TRIP SETUP

How do I edit the Alarm set points?

Press **SETUP** > Down arrow to **"Front Screen"** & press **SELECT** > "Select the line to edit" > Press **EDIT** > "Scroll down to **"AlarmMax:"** or **"AlarmMin:"** > Press **EDIT** and change the alarm points required > Press **EXIT (3 Times)** to return to the **RUN SCREEN**

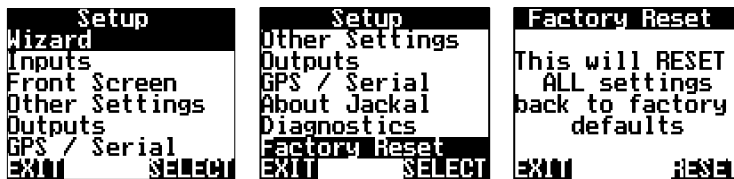| Setup	Front Screen	Front Screen 1
Wizard	1:LH DECK rpm	Input# : 2
Inputs	2:RH DECK rpm	Name: LH DECK
Front Screen	3:ROLLER rpm	Unit: rpm
Other Settings	4:-------	Decimals: 0
Outputs	5:-------	AlarmMax: 1000.0
GPS / Serial	6:-------	AlarmMin: 250.00
EXIT SELECT	EXIT ORDER EDIT	EXIT EDIT

I think one of the inputs might be faulty. Can I easily change the input without doing the wizard or resetting the Jackal and losing my settings?

Press **SETUP** > Down arrow to **"Front Screen"** & press **SELECT** > "Select the line to edit" > Press **EDIT** > Down arrow "once" to "**Input#**" > Press **EDIT** or **LEFT/RIGHT** arrows and change to the new input number > Down arrow to **"Unit"** > Press **EDIT** or **LEFT/RIGHT** arrows and change to **"rpm"** > Press **EXIT (3 Times)** to return to the **RUN SCREEN**

Setup	Front Screen	Front Screen 1
Wizard	1:LH DECK rpm	Mode: Input
Inputs	2:RH DECK rpm	Input# : 2
Front Screen	3:ROLLER rpm	Name: LH DECK
Other Settings	4:-------	Unit: rpm
Outputs	5:-------	Decimals: 0
GPS / Serial	6:-------	AlarmMax: 1000.0
EXIT SELECT	EXIT ORDER EDIT	EXIT EDIT

I've made a mistake during the setup. Can I start again?

Press **SETUP** > Up Arrow to **"Factory Reset"** & press **SELECT.** Confirm the Message by pressing **RESET.** Cycle power on the Jackal & start the wizard again.

Setup	Setup	Factory Reset
Wizard	Other Settings	This will RESET ALL settings back to factory defaults
Inputs	Outputs	
Front Screen	GPS / Serial	
Other Settings	About Jackal	
Outputs	Diagnostics	
GPS / Serial	**Factory Reset**	
EXIT SELECT	EXIT SELECT	EXIT RESET

Jackal Sensor Connections – Please note the 2 versions

2 Wire: Reed Type Sensor with magnet – Ground & Signal
3 Wire: Proximity Type Sensor – Ground, Signal & Power

V1.0

Row A: 1 2 3 4 5 6 7 8 9 10 11 (GROUND at 1)
Row B: 1 2 3 4 5 6 7 8 9 10 11

Signal INPUT 2, Signal INPUT 3, Signal INPUT 4, 12v OUT, +ve 12v BATTERY, -ve GROUND BATTERY

Serial #
J10002000-5999
30006000-6999

V2.0

Row B: 1 2 3 4 5 6 7 8 9 10 11 (GROUND at 1, 12v OUT at 5)
Row A: 1 2 3 4 5 6 7 8 9 10 11

Signal INPUT 2, Signal INPUT 3, Signal INPUT 4, GROUND, +ve 12v BATTERY, -ve GROUND BATTERY

Serial #
30007000-7999