

Appendix 1 – Installation /Calibration data

If your harvester model is not listed then use the generic PC points and crop factor (20.0).

On combine models where no dimension is given, the sensor should be positioned such that the beam is broken by the elevator paddle only and not by the paddle support.

This dimension can be determined by inspecting the elevator through the top or bottom access panel or else contact RDS for further advice. Note that elevator mod. kits are supplied for NH and John Deere combines.

Where indicated [] in the tables, refer to additional notes the end of the document.

Make and Model CLAAS	Dom 86/96/98	Dom 106/108	Dom 118/218	Dom 112CS
Curve points				
PC tare	19.5	9.9	9.9	7.4
PC 1	27.3	18.2	18.2	12.0
PC 2	35.0	20.8	20.8	18.2
PC 3	45.7	27.0	27.0	24.45
PC 4	55.3	32.95	32.95	30.5
PC 5	65.0	37.9	37.9	36.37
Crop factors				
A Wheat	20.0	20.6	18.0	17.6
B Barley	20.7			
C Oats	18.5			
D Oilseed Rape (Rapeseed Canola)				
E Linseed				
F Beans (Soya)	23.0			20.8
G Peas			17.2	
H Maize (Corn)	22.2			23.6
Slope correction factors				
LH	-0.150	-0.100	-0.100	-0.000
RH	-0.250	-0.200	-0.200	-0.247
Sensor position (mm)				
X	40	45	45	60
Y	Inside grain tank	Just below grain tank	Just below grain tank	

Make and Model CLAAS		Comm 116CS/228	Dom 204	ALL LEXIONS (inc. CAT Lexions)
Curve points				Freq = 16Hz
PC tare		7.4	9.9	3.35
PC 1		12.0	18.2	12.95
PC 2		18.2	20.8	20.1
PC 3		24.45	27.0	33.55
PC 4		30.5	32.95	45.5
PC 5		36.37	37.9	54.00
Crop factors				
A Wheat		24.4	20.6	25.2
B Barley				
C Oats				
D Oilseed Rape (Rapeseed Canola)				
E Linseed				
F Beans (Soya)				
G Peas				
H Maize (Corn)				
Slope correction factors				
LH		0.000	-0.10	-0.22
RH		-0.247	-0.20	-0.35
FW				+0.18
BW (Uphill)				-0.2
Sensor position (mm)				
X		60	45	45
Y		Just below grain tank	Inside grain tank	110 below bracket [10]

Make and Model CASE IH	1460	1660	1680	
Curve points				
PC tare		6.3	23.8	
PC 1		10.4	27.1	
PC 2		14.3	30.7	
PC 3		21.1	36.9	
PC 4		27.2	41.8	
PC 5		33.2	46.7	
Crop factors				
A Wheat		18.9	23.5	
B Barley				
C Oats				
D Oilseed Rape (Rapeseed Canola)			23.5	
E Linseed				
F Beans				
G Peas			16.5	
H Maize (Corn)				
Slope correction factors				
LH		-0.150	-0.150	
RH		-0.300	-0.320	
Sensor position (mm)				
X	35	40	60	
Y		Just below grain tank floor	Just below grain tank floor [1]	

Make and Model CASE IH	2166	2188 & 2388	
Curve points		Freq = 19 Hz	
PC tare	6.3	21.88	
PC 1	10.4	31.32	
PC 2	14.3	36.15	
PC 3	21.1	43.44	
PC 4	27.2	51.35	
PC 5	33.2	58.18	
Crop factors			
A Wheat	18.9	25	
B Barley			
C Oats			
D Oilseed Rape (Rapeseed Canola)		23.5	
E Linseed			
F Beans			
G Peas		16.5	
H Maize (Corn)		25.8	
Slope correction factors			
LH	-0.150	-0.03	
RH	-0.300	-0.28	
FW		0.00	
BW		+0.02	
X	40	60 on inside 50 on outside (slightly staggered)	
Y	Just below grain tank floor	Just below grain tank floor [1]	

Use silicon on holes

Make and Model JOHN DEERE	1000 SERIES	1100 SERIES	Z SERIES BELT DRIVE	Z SERIES CHAIN DRIVE
Curve points			Freq = 21 Hz	Freq = 18 Hz
PC tare	5.3	22.7	19.9	19.9
PC 1	7.6	25.5	25.6	23.6
PC 2	10.2	29.2	26.6	27.2
PC 3	15.7	33.2	29.5	34.3
PC 4	19.7	37.2	32.5	42.2
PC 5	23.6	41.1	35.4	49.8
Crop factors				
A Wheat		16.5	24.6	
B Barley	20.3	16.5		
C Oats				
D Oilseed Rape (Rapeseed Canola)	19.2		21.5	
E Linseed				
F Beans			13.8	
G Peas				
H Maize (Corn)				
Slope correction factors				
LH	-0.100	-0.100	-0.081	-0.081
RH	-0.200	-0.200	-0.094	-0.094
Sensor position (mm)				
X	30	50	65	65
Y	Inside tank 200 below top flange	Inside tank 200 below top flange	170 [2]	170 [2]

Use correct elevator mod. Kit

Make and Model JOHN DEERE	4400	4425	7720 TURBO	7720 TITAN II	9500
Curve points	(Default)	(Default)	(Default)	(Default)	Freq = 13.2 [11]
PC tare	0.0	0.0	0.0	0.0	8.3
PC 1	5.79	5.79	5.79	5.79	15.63
PC 2	10.10	10.10	10.10	10.10	22.16
PC 3	17.29	17.29	17.29	17.29	34.36
PC 4	23.76	23.76	23.76	23.76	44.45
PC 5	30.12	30.12	30.12	30.12	54.14
Crop factors					
A Wheat		21.6	18.4	19.5	
B Barley		24.8		20.6	21.9
C Oats	12.5				22.0
D Oilseed Rape (Rapeseed Canola)					
E Linseed					
F Beans (Soya)		13.0	17.8	15.9	25.0
G Peas					
H Maize (Corn)	13.4	17.7		18.2	24.6
Slope correction factors					
LH					+0.10
RH					-0.38
FW					-0.05
BW					+0.05
Sensor position (mm)					
X	25	30	35	30	60
Y	820	200	720	700	240

Make and Model JOHN DEERE	9600	2258		
Curve points	Freq = 13.2Hz [11]	Freq = 18 Hz		
PC tare	8.3	26.0		
PC 1	15.63	29.6		
PC 2	22.16	33.0		
PC 3	34.36	37.0		
PC 4	44.45	41.6		
PC 5	54.14	46.4		
Crop factors				
A Wheat	32	27		
B Barley	32			
C Oats				
D Oilseed Rape (Rapeseed Canola)	28			
E Linseed				
F Beans (Soya)				
G Peas				
H Maize (Corn)	32			
Slope correction factors				
LH	+0.10	-0.08		
RH	-0.38	-0.27		
FW	-0.05	-0.08		
BW	+0.05	+0.11		
Sensor position (mm)				
X	60	65		
Y	240 from top shaft	170 [2]		

Make and Model DEUTZ FAHR	4065	4080	8XL	
Curve points				
PC tare		11.5	28.3	
PC 1		15.9	32.7	
PC 2		19.9	37.3	
PC 3		27.7	44.5	
PC 4		35.4	52.2	
PC 5		43.3	60.1	
Crop factors				
A Wheat		28.5	24.8	
B Barley		22.5		
C Oats				
D Oilseed Rape (Rapeseed Canola)				
E Linseed				
F Beans			26.0	
G Peas				
H Maize (Corn)				
Slope correction factors				
LH		0.000	+0.12	
RH		-0.320	-0.32	
Sensor position (mm)				
X	50	35	60	
Y	1450 up from bottom [4]	1740 up from bottom sprocket [4]	Under Tank	

Make and Model NEW HOLLAND	TX34/36, TX62/64/65, TF76	TF42/44/46, TX66/68 TF78 ELEKTRA	ALL TC MODELS
Curve points	Freq = 14 Hz	Freq = 14 Hz	
PC tare	9.7	11.6	21.0
PC 1	18.5	21.0	27.5
PC 2	24.3	26.5	35.4
PC 3	33.5	35.0	46.2
PC 4	40.5	43.0	53.5
PC 5	48.7	52.0	61.5
Crop factors			
A Wheat	19.0	23.2	14.0
B Barley	21.5		
C Oats			
D Oilseed Rape (Rapeseed Canola)	19.0	21.5	
E Linseed			
F Beans			
G Peas	20.9	18.8	
H Maize (Corn)			
Slope correction factors			
LH	-0.13	-0.13	-0.13
RH	-0.25	-0.31	-0.20
FW	All models: leave set to zero		
BW (Uphill)	All models: leave set to zero		
Sensor position (mm)			
X	55 [7]	55 [7]	55 [8]
Y	70 from bracket	70 from bracket	In grain tank

[Use correct elevator mod. Plates]

Make and Model NEW HOLLAND	8070 8080		ALL TR	All CX Models
Curve points			Freq = 17Hz	Freq = 18Hz
PC tare	9.7		6.2	29.6
PC 1	18.5		18.2	32.6
PC 2	24.3		25.62	36.9
PC 3	33.5		36.41	44.5
PC 4	40.5		43.38	52.5
PC 5	48.7		54.39	60.3
Crop factors				
A Wheat	19.0		20	27
B Barley	21.5		20	
C Oats				
D Oilseed Rape (Rapeseed Canola)	19.0		17	
E Linseed				
F Beans (Soya)				
G Peas	20.9			
H Maize (Corn)			20	
Slope correction factors				
LH	-0.13		+0.10	-0.15
RH	-0.25		-0.22	-0.30
FW	No Correction Required			-0.10
BW (Uphill)				+0.10
Sensor position (mm)				Mod. Plates required for elevator paddles [see Note 12]
X	55		44	55
Y	220		332mm from top shaft	2000mm from bottom shaft

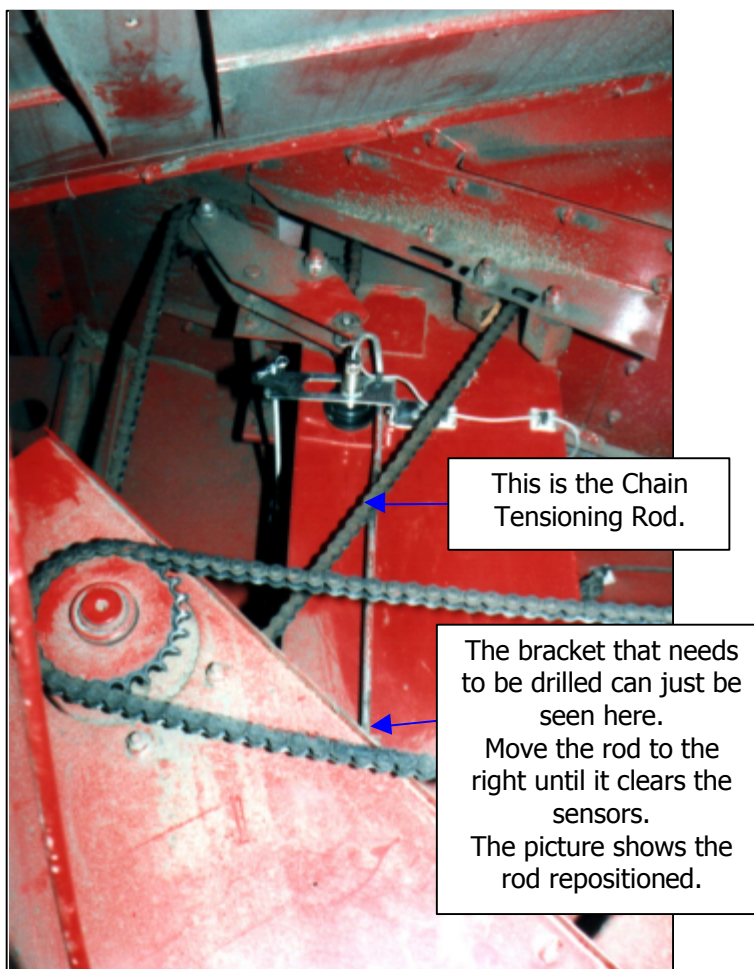
Make and Model CASE NEW HOLLAND (CNH)		CS, CSX (as per TX66)		
Curve points		Freq = 14 Hz		
PC tare		11.6		
PC 1		21.0		
PC 2		26.5		
PC 3		35.0		
PC 4		43.0		
PC 5		52.0		
Crop factors				
A Wheat		23.2		
B Barley				
C Oats				
D Oilseed Rape (Rapeseed Canola)		21.5		
E Linseed				
F Beans (Soya)				
G Peas		18.8		
H Maize (Corn)				
Slope correction factors				
LH		-0.13		
RH		-0.31		
FW	All models: leave set to zero			
BW (Uphill)				
Sensor position (mm)				
X		55 [7]		
Y		Just below tank Use K/NHCSX/ELEVMOD elevator mod kit. Install as per note [7]		

Make and Model MASSEY	MASSEY 38/40	MASSEY 29	MASSEY 760	MASSEY 850
Curve points	Freq = 16 Hz			
PC tare	7.5			
PC 1	14.7			
PC 2	21.5			
PC 3	28			
PC 4	36			
PC 5	44			
Crop factors				
A Wheat	19.62			
B Barley	18.5			
C Oats				
D Oilseed Rape (Rapeseed Canola)				
E Linseed				
F Beans				
G Peas				
H Maize (Corn)				
Slope correction factors				
LH	-0.1			
RH	-0.35			
FW	-0.04			
BW	-0.01			
Sensor position (mm)				
X	60	55	35	35
Y	See note [5]	Below tank [5]		

Make and Model	FIAT L517		FORTSCHRITT E514/517	FORTSCHRITT E524
Curve points				
PC tare	28.2		17.9	17.9
PC 1	31.0		23.1	23.1
PC 2	34.5		28.5	28.5
PC 3	42.5		35.7	35.7
PC 4	50.4		42.7	42.7
PC 5	58.3		49.6	49.6
Crop factors				
A Wheat	23.0			17.7
B Barley				
C Oats				
D Oilseed Rape (Rapeseed Canola)				
E Linseed				
F Beans				
G Peas				
H Maize (Corn)				
Slope correction factors				
LH	-0.330		0.000	0.000
RH	-0.100		-0.220	-0.220
Sensor position (mm)				
X	60		45	40
Y	400 from top of elevator, in the tank		Just below tank	Just below tank

Make and Model	GLEANER R-72	LAVERDA 306LS	
Curve points	Freq = 17 Hz		
PC tare	28.8		
PC 1	37.3		
PC 2	41.92		
PC 3	51.86		
PC 4	59.42		
PC 5	66.62		
Crop factors			
A Wheat	27.6		
B Barley	27.6		
C Oats			
D Oilseed Rape (Rapeseed Canola)	25		
E Linseed			
F Beans			
G Peas			
H Maize (Corn)	27.6		
Slope correction factors			
LH	-0.14		
RH	-0.30		
FW	-0.25		
BW	+0.05		
Sensor position (mm)			
X	65	47 SEE NOTE [13]	
Y	Stagger receiver 10 mm below transmitter [9]	200 SEE NOTE [13]	

[1] **CASE IH 1680, 2188** - The bracket which locates the chain tensioning rods, should be re-drilled and the rod re-positioned to clear the sensors.



[2] **John Deere 2054, 2056, 2058, 2258, 2064, and 2066 models** - the tie rod must pass between the chain tension rod and the elevator housing.

Elevator mod. kit for John Deere. Ref: K/JD/ELEV/MOD

Fit elevator modification plates on all Z Series models. The plates can be fitted without removing the chain from the elevator.

Remove and replace the fasteners securing the rubber paddles with those supplied, fitting the plate between the paddle bracket and rubber paddle. Fit the washer under the bolt head.

The plate should be fitted on the RH side of the chain i.e. towards the outside of the machine.

K/JD/ELEV/MOD -kit contents:

Part No.:	Part:	Qty:
S/BK/182-2-049	Mod plate	25
S/FR/500-6-025	M8 x 30 Button head screw	50
S/FSNR/407	M8 Self-locking nut	50
S/FR/500-5-006	M8 Washer	50

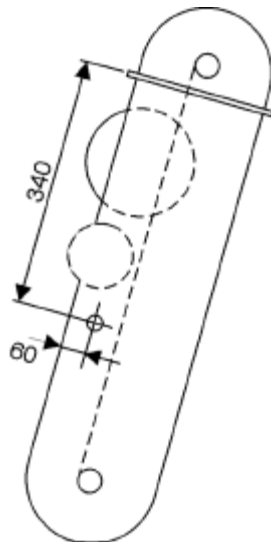
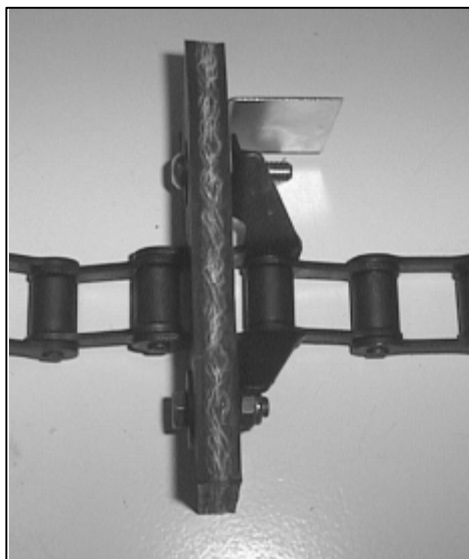


[3] **John Deere 9500/9600** - Y dimension from the top shaft in the tank.

[4] **Deutz Fahr** - Ensure also that the sensors are below and well clear of the Unloading Auger belt.

[5] **MASSEY** - The sensor should be located as high as possible on the elevator (approximately 340mm below the elevator bracket (see below right)).

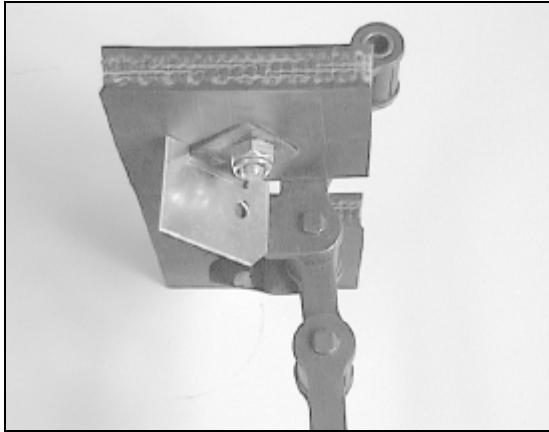
Elevator modification plates are available. Fit as shown below with plate parallel to edge of paddle.



[6] *(Reference deleted)*

[7] Elevator mod. kit for NEW HOLLAND TF/TX range Ref: K/NH/ELEV/MOD

Remove the elevator chain, position and rivet, or weld on the plate as shown below.



The plate should be on the outer side of the chain as shown.

K/NH/ELEV/MOD -kit contents:

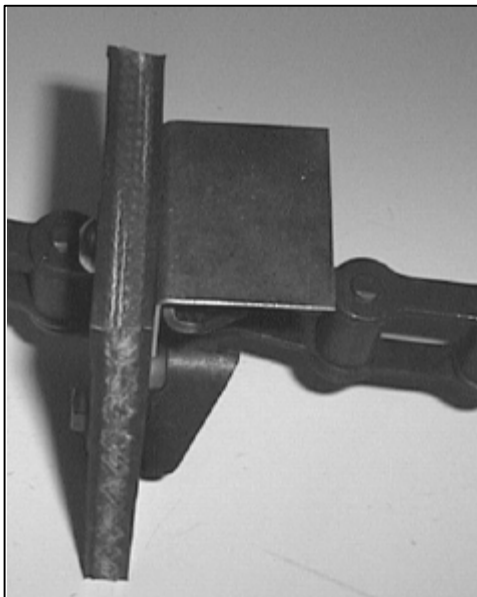
Part No:	Part:	Qty:
S/BK/182-2-048	Mod plate	30
S/FR/500-6-002	4.8 dia pop rivet	30

[8] Elevator mod. kit for NEW HOLLAND TC range

Fit elevator modification plates ref: S/BK/182-2-052

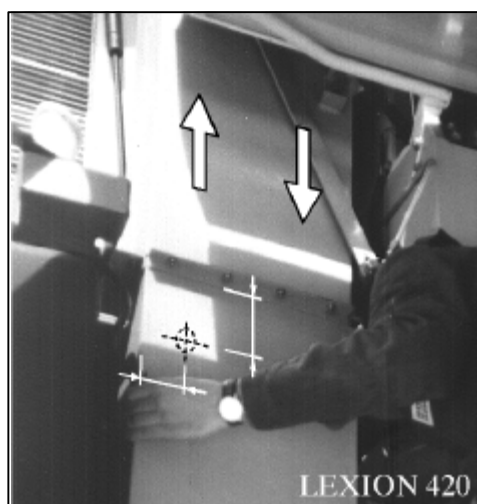
The plates can be fitted without removing the chain from the elevator. Gain access from the inspection door at the bottom of the elevator, and manually rotate the elevator to reach each paddle in turn.

The plate should be fitted on the RH side of the chain i.e. towards the outside of the machine.



[9] Slightly staggering one sensor 10mm below the other prevents the receiver being triggered by a gap found in the paddle support bracket.

- [10] The elevator on all LEXION models goes in the opposite direction to other CLAAS combines, so the sensors are fitted towards the REAR (upside) of the elevator as shown below.



- [11] John Deere 9500/9600 and CTS may have unstable frequencies due to one paddle missing.

[12] **Elevator mod. kit for NEW HOLLAND CX Models**

Fit elevator modification plates ref: S/BK/182-2-076

The plates can be fitted without removing the chain from the elevator. Gain access from the inspection door at the bottom of the elevator, and manually rotate the elevator to reach each paddle in turn.

The plate should be fitted on the RH side of the chain i.e. towards the outside of the machine.

Sensors

Because of the limited clearance between the front face of the elevator and the side panel the compact yield sensor is required - Kit Ref. K/CERES2/GR/MK2.

