Workshop Manual for 7280 CENTORA Combine Series



AGCO International GmbH - Victor von Bruns-Straße 17 - 8212 Neuhausen am Rheinfall -Switzerland MASSEY FERGUSON is a worldwide brand of AGCO © AGCO 2012 May 2012 No. D3111800M4 - S/N 580010001 MF7280 - MF7282 CENTORA - EAME English Issue 2



Workshop Manual for 7280 CENTORA Combine Series

1			on - Specifications 13
	1.1	-	the manual
		1.1.1	Using the manual
	1.2		al specifications
		1.2.1	General specifications 16
		1.2.2	Tyre pressure
	1.3	Dimen	sions and weight
		1.3.1	Dimensions and weight
	1.4	Safety	v precautions
		1.4.1	Safety precautions
		1.4.2	Safety in the workshop
		1.4.3	Safety - a word to the mechanic
		1.4.4	Safety - danger, warning and caution
		1.4.5	Safety decals
		1.4.6	General
		1.4.7	Personal safety
		1.4.8	Considerations with regard to equipment
		1.4.8	General considerations
		1.4.10	Operational considerations
		1.4.11	Maintenance techniques
	1.5		cal advice
		1.5.1	Practical advice
	1.6		ap instructions
		1.6.1	General
		1.6.2	Pre-delivery checks
		1.6.3	Instruction of combine operator
	1.7	Conve	rsion tables
		1.7.1	Conventional units of measurement
	1.8	Lockin	n <mark>g and sealing agents</mark>
		1.8.1	Locking and sealing agents
	1.9	Wheel	nut torques
		1.9.1	Wheels
		1.9.2	Bolts with metric threads. 40
		1.9.3	Nuts with metric threads
2	Cut	ting tal	ble
	2.1		al
			Cutting table, general
	2.2		drive - wobble box
		2.2.1	Removal
		2.2.2	Assembly. 46
		2.2.2	Reconditioning the wobble box
		2.2.3	
	2.2		Positioning the double fingers, knife and crop lifters
	2.3		auger
		2.3.1	Removal
		2.3.2	Assembly
		2.3.3	Replacing the shaft on the right-hand side
		2.3.4	Replacing the shaft on the left-hand side
		2.3.5	Replacing the crankshaft 57
		2.3.6	Replacing the feathering fingers, bearings and bushes
		2.3.7	Adjusting the table auger and feathering fingers



	2.4	Table b	ody
		2.4.1	Adjusting the cut-off strips
		2.4.2	Adjusting and positioning the ground sensor - PowerFlow
	2.5	Slip clu	itch and chain drive
		2.5.1	Removal
		2.5.2	Assembly
		2.5.3	Replacing the bearings and sprockets
	2.6		rshaft
	210	2.6.1	Removal
		2.6.2	Assembly
	2.7		Flow table
	2.7	2.7.1	PowerFlow Table
		2.7.1	Removal, belts
		2.7.2	
			Assembly, belts
		2.7.4	Replacing the front rollers and bearings, scraper adjustment
		2.7.5	Replacing the rear rollers and bearings, scraper adjustment
		2.7.6	Replacing and aligning the bearing housing, rear rollers
		2.7.7	Belt tensioning and running-in
3	Pool		
J			
	3.1		
		3.1.1	Removal
		3.1.2	Assembly
		3.1.3	Replacing the reel tine bar and plastic bearings
		3.1.4	Replacing the guide rollers, eccentric, guide ring and bearings
		3.1.5	Replacing the reel plates
		3.1.6	Replacing the reel tube, bearings
	3.2		or and chain drive
		3.2.1	Replacing the oil motor
		3.2.2	Replacing the flow divider
	3.3	-	lic cylinders
		3.3.1	Replacing the cylinder – reel up/down 90
		3.3.2	Replacement of cylinder – reel forward/back
		3.3.3	Reconditioning of hydraulic cylinders
л	N/1 a :		
4			elevator
	4.1		l
			Main crop elevator, general
	4.2		rop elevator
		4.2.1	Removal
		4.2.2	Assembly
		4.2.3	Bearing block on machine frame 100
		4.2.4	Replacement of lifting ram 100
		4.2.5	Reconditioning of hydraulic cylinder 100
		4.2.6	Replacing the cutting height preset sensor 101
	4.3	Crop el	evator chain
		4.3.1	Crop elevator chain, general
		4.3.2	Removal
		4.3.3	Assembly
		4.3.4	Replacement of slats
		4.3.5	Replacing the slide rails in the crop elevator
		4.3.6	Replacing the intermediate plate 106
	4.4	Elevato	r chain top shaft
		4.4.1	Removal
		4.4.2	Assembly
		4.4.3	Replacing the bearings
		444	Replacing the sprockets
		4.4.5	Replacing the shaft protection tube
	4.5		r chain front shaft
		4.5.1	Removal
		4.5.2	Assembly
		4.5.3	Replacing the shaft, bearings and plate wheels
		1010	



	4.6	Elevato	or countershaft
		4.6.1	Removal
		4.6.2	Assembly
		4.6.3	Replacing the bearings, belt pulley 114
	4.7	Table c	lutch and chain drive
		4.7.1	Removal
		4.7.2	Assembly
		4.7.3	Reconditioning the clutch
	4.8		۶۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰
		481	Removal
		4.8.2	Assembly
		4.8.3	Replacing the cylinder/connecting rod
		4.8.4	Reconditioning of hydraulic cylinder
		4.8.5	
	4.9		Replacing the angle sensor
	4.9	-	lic reversing
		4.9.1	Removal
		4.9.2	Assembly
-	These	- I o :	
5			anit
	5.1		I
		5.1.1	Threshing unit, general 123
	5.2		t rap
		5 .2 .1	Removal
		5.2.2	Assembly
	5.3	Concav	/e 126
		5.3.1	Removal
		5.3.2	Assembly
		5.3.3	Adjusting the concave laterally
		5.3.4	Concave setting - initial setting
		5.3.5	Replacing the actuator
		5.3.6	Replacing the lead-in plate
		5.3.7	Replacing the shaft for concave setting
	5.4		ing cylinder
	0.7	5.4.1	Removal
		5.4.2	Assembly
		5.4.2 5.4.3	Replacing the bearings
		5.4.3 5.4.4	
			Replacing the rasp bars and backing bars
		5.4.5	Replacing the shaft and cylinder spiders 134
	5.5	-	er variator - table clutch
		5.5.1	Removal, hydraulic variator
		5.5.2	Assembly, hydraulic variator. 137
		5.5.3	Reconditioning the hydraulic variator pulley
		5.5.4	Removal, mechanical variator
		5.5.5	Assembly, mechanical variator
		5.5.6	Reconditioning the mechanical variator pulley
		5.5.7	Removal, magnetic clutch 141
		5.5.8	Assembly, magnetic clutch 142
		5.5.9	Reconditioning the magnetic clutch
	5.6	Bracke	t for counter drive
		5.6.1	Removal
		5.6.2	Assembly and alignment. 146
	5.7	Rear be	eater
		5.7.1	Removal
		5.7.2	Assembly
		5.7.3	Replacing the bearings
	5.8		eater concave
	J.0	5.8.1	Removal
		5.8.2	
	E 0		
	5.9	-	separator cylinder
		5.9.1	Removal
		5.9.2	Assembly
		5.9.3	Replacing the bearings



		5.9.4	Replacing the rasp bars
	5.10	Rotary	separator concave
		5.10.1	Removal
		5.10.2	Assembly
		5.10.3	Concave setting - initial setting
		5.10.4	Replacing the shaft for concave setting
6	Stra	w walk	(ers
-	6.1		II
		6.1.1	Straw walkers, general
	6.2		walkers
		6.2.1	Removal
		6.2.2	Assembly
	6.3	-	- front
	0.5	6.3.1	Removal
		6.3.2	Fitting
	~ 4	6.3.3	Replacing the bearings
	6.4		- rear
		6.4.1	Removal
		6.4.2	Fitting
		6.4.3	Replacing the bearings
-	011		• F
7			e - Fanning mill
	7.1		II
		7.1.1	Shaker shoe - fanning mill, general
	7.2		g mill
		7.2.1	Removal
		7.2.2	Assembly
		7.2.3	Replacing the fan blades
		7.2.4	Replacing the fanning mill deflectors
		7.2.5	Replacement of seals
	7.3	Main g	rain pan frame
		7.3.1	General
		7.3.2	Removal
		7.3.3	Assembly
		7.3.4	Replacing the swivel arm and bearings
		7.3.5	Replacing the seals
	7.4		d grain pan
	<i>7</i> • •	7.4.1	Removal
		7.4.2	Assembly
		7.4.3	Replacing the swivel arm and bearings
		7.4.4	Adjusting second grain pan
	7.5		aker shoe
	7.5	7.5.1	Removal
		7.5.2	
			Assembly
		7.5.3	Replacing the swivel arm and bearings
		7.5.4	Replacement of seals
		7.5.5	Replacing and calibrating the actuator - sieves
	7.6		n shaker shoe
		7.6.1	Removal
		7.6.2	Assembly
		7.6.3	Replacing the swivel arm and bearings
		7.6.4	Replacing the seals
		7.6.5	Electric sieve setting – initial setting
	7.7	Bottom	n augers
		7.7.1	Bottom augers
		7.7.2	Removal
		7.7.3	Assembly
	7.8		ric drive
		7.8.1	Removal
		7.8.2	Assembly
		7.8.3	Adjusting the connecting rod / aligning the shaker shoes
			,



		7.8.4 7.8.5	Replacing the connecting rod bearing	200
	7.9	Transm 7.9.1	issions	
		7.9.2	Adjusting the fanning mill variator.	
		7.9.3	Replacing and reconditioning the counter drive	
				200
8	Elev	ators		
	8.1		lling elevator	
		8.1.1	Removal	-
		8.1.2	Assembly.	
		8.1.3	Replacing the top shaft, bearings and sprockets	
		8.1.4 8.1.5	Replacement of bottom sprocket	
		8.1.5 8.1.6	Replacing the elevator chain	
		8.1.7	Yieldmeter sensor	
	8.2		s elevator.	- · ·
	0.2	8.2.1	Removal	
		8.2.2	Assembly.	
		8.2.3	Replacing the top shaft, bearings and sprockets	
		8.2.4	Replacing the bottom sprocket	214
		8.2.5	Replacing the elevator chain	214
		8.2.6	Returns volume sensor	
	8.3		s thresher.	
		8.3.1	Removal	
		8.3.2	Fitting.	
		8.3.3	Replacing the sprockets.	
		8.3.4	Replacement of threshing cylinder	
	• •	8.3.5	Reconditioning the right-angle gear	
	8.4		Iling auger	
		8.4.1	Removal	
		8.4.2 8.4.3	Fitting	
		8.4.3 8.4.4	Replacing the top bearing	
	8.5		lission	
	0.0	8.5.1	Replacing the shaft, bearings and sprockets	
9	Engi	ne		223
	9.1		Ι	
		9.1.1	Engine, general	225
	9.2	-	ing the engine	
		9.2.1	Removing the engine assembly	
		9.2.2	Fitting the engine assembly	228
10	Unlo	adina a	auger - Grain tank	221
10	10.1		ing auger - horizontal	
	10.1	10.1.1	Removal	
		10.1.2	Assembly	
	10.2		ing auger - vertical	
		10.2.1	Removal	
		10.2.2	Assembly	
		10.2.3	Reconditioning the right-angle gear	
	10.3	Unload	ing tube - horizontal	
		10.3.1	Removal	237
		10.3.2	Assembly.	237
	10.4	Unload	ing tube - vertical	238
		10.4.1	Removal	238
		10.4.2	Assembly.	
		10.4.3	Replacing the swivel bearing	
		10.4.4	Replacing the hydraulic cylinder	
		10.4.5	Reconditioning of hydraulic cylinder	240



	10.5		ng tube elbow	
			Removal	
			Assembly	
			Reconditioning the right-angle gear	
	10.6		auger and cover plate	
			Removal	
			Fitting	
		10.6.3	Replacing the bearings, safety clutch	245
	10.7		ission	
		10.7.1	Replacing the unloading auger shaft, bearings	247
		10.7.2	Replacing and reconditioning the magnetic clutch	248
	10.8	Grain ta	ink covers	250
		10.8.1	Removal	250
		10.8.2	Assembly	251
11				
	11.1		r – intercooler	
			Removal	
			Fitting	
	11.2		er	
			Removal	
			Assembly	
	11.3		oler	
			Removal	
			Assembly	
	11.4		ser – air conditioning	
			Removal	
			Assembly	
	11.5		screen	
			Removal	
			Assembly	
		11.5.3	Adjusting the rotary screen and cleaning blade	262
			Replacing the drive shaft and clutch.	
	11.6		pirator	
			Removal	
			Assembly	
	11.7	Hydrost	atic pump	268
		11.7.1	Removal	268
		11.7.2	Assembly	270
		11.7.3	Tensioning device	271
	11.8	Auxiliar	y hydraulic pump	272
		11.8.1	Removal	272
		11.8.2	Fitting	272
	11.9	Hydraul	ic pump - Maxi Spreader	273
		11.9.1	Removal	273
		11.9.2	Assembly	273
	11.10	Hydraul	ic oil tank	274
		11.10.1	Removal	274
		11.10.2	Fitting	274
	11.11	Fuel tan	ık	275
		11.11.1	Removal	275
		11.11.2	Fitting	275
		11.11.3	Tank gauge	275
	11.12		dditive and dosing equipment	
			Removal	
		11.12.2	Assembly	276
			Supply module	
			Dosing module	
			Tank sensor.	
	11.13		essor – air conditioning	
			Removal	
			Assembly	



	11.14	Power	take-off	279
		11.14.1	Removal	
			Assembly	
		11.14.3	•	
		11.14.4		
17	Trope	miaal	ons	202
12				
	12.1			
	122	12.1.1	Transmissions, General	
	12.2		rshaft	
		12.2.1		
		12.2.2	Assembly.	
		12.2.3 12.2.4	Replacing the bearings	
	12.3		Reconditioning the safety clutch.	
	12.3	-	ing the belts, right-hand side.	
		12.3.1 12.3.2	Rear beater - counter drive, cylinder variator	
		12.3.2	Counter drive, variator - threshing cylinder	
			Rear beater - rotary separator	
		12.3.4 12.3.5	Fanning mill - fanning mill variator	
		12.3.5	Rear beater - fanning mill variator	
		12.3.6	Unloading auger shaft - unloading auger	
		12.3.7	Unloading auger shaft - rotary screen clutch.	
		12.3.8	Unloading auger shaft - dust aspirator.	
	12.4		Countershaft – counter drive, elevators	
	12.4	12.4.1	Counter drive, elevators - returns elevator	
		12.4.1	Counter drive, elevators - tank filling elevator	
		12.4.2	Counter drive, elevators - tank filling auger	
		12.4.3	Returns elevator - returns thresher.	
		12.4.5	Reel drive	
	12.5		ing the belts, left-hand side	
	12.5	12.5.1	Countershaft - rear beater	
		12.5.1	Countershaft - counter drive, straw chopper	
		12.5.2	Counter drive - straw chopper	
		12.5.3	Engine - countershaft	
		12.5.4	Rear beater - countershaft, shaker shoe drive	
		12.5.6	Countershaft, shaker shoe drive - eccentric shaft	
		12.5.7	Countershaft, shaker shoe drive - straw walker crank	
		12.5.8	Rear beater - elevator chain top shaft / front shaft	
		12.5.9	Engine - unloading auger shaft.	
		12.5.10	Engine - hydrostatic pump	
		12.5.11	PTO shaft – table countershaft	
		12.5.12	Table countershaft - knife drive.	
		12.5.13	Countershaft - hydraulic pump, chaff spreader	
	12.6		ing the chains, left-hand side	
		12.6.1	Table countershaft - table auger	
		12.6.2	Table auger - belt rollers (PowerFlow)	
		12.6.3	Hydraulic motor, reversing - elevator countershaft	
		12.6.4	Bottom auger – unloading auger	
				012
13		rcarria		
	13.1		evel final drive bracket	
		13.1.1	Removal	
		13.1.2	Assembly.	
		13.1.3	Replacing the bushing	
		13.1.4	Replacing the hydraulic cylinder.	
		13.1.5	Reconditioning of hydraulic cylinder	
	40.0	13.1.6	Adjusting the Auto Level potentiometer	
	13.2			
		13.2.1	Removal	
		13.2.2	Assembly.	
		13.2.3	Reconditioning the final drives	323



	13.3	Gearbo	X	327
		13.3.1	Removal	327
		13.3.2	Assembly	328
		13.3.3	Replacing the shifter cylinders and sensor	329
		13.3.4	Adjusting the shifter cylinders and sensor	330
		13.3.5	Replacing the lubrication pump	333
		13.3.6	Replacing the shifter forks	334
		13.3.7	Reconditioning the differential	335
		13.3.8	Reconditioning the gearbox	338
	13.4	Hydros	tatic motor	342
		13.4.1	Removal	342
		13.4.2	Assembly	342
	13.5	Brakes		343
		13.5.1	Replacing the brake blocks	
		13.5.2	Replacement of brake discs	
		13.5.3	Bleeding the brakes	
		13.5.4	Brake pedals and main cylinder	
		13.5.5	Replacing the handbrake shoes	
		13.5.6	Adjustment of hydraulic hand brake	
	13.6		le	
		13.6.1	General	
		13.6.2	Removal	
		13.6.3	Assembly.	
		13.6.4	Replacing the king pins and bushings	
		13.6.5	Replacing the steering cylinder	
		13.6.6	Reconditioning the hydraulic cylinder, rear axle	
		13.6.7	Adjusting the toe-in and steering deflection	300
14	Cab			359
	14.1		unction lever and control panel	
		14.1.1		361
			Control panel	
		14.1.1		362
	14.2	14.1.1 14.1.2 14.1.3	Control panel	362 363
	14.2	14.1.1 14.1.2 14.1.3	Control panel Armrest Multi-function lever	362 363 365
	14.2 14.3	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro	Control panel Armrest Multi-function lever ing the windscreen Replacing the windscreen I panel in roof	362 363 365 365 366
		14.1.1 14.1.2 14.1.3 Replaci 14.2.1	Control panel	362 363 365 365 366 366
		14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro 14.3.1 Roof	Control panel	362 363 365 365 366 366 367
	14.3	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro 14.3.1 Roof 14.4.1	Control panel Armrest Armrest Multi-function lever Armrest Arm	362 363 365 365 366 366 367 367
	14.3	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Control 14.3.1 Roof 14.4.1 14.4.2	Control panel Armrest Armrest Multi-function lever Armrest Arm	362 363 365 365 366 366 367 367 368
	14.3	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro 14.3.1 Roof 14.4.1 14.4.2 14.4.3	Control panel	362 363 365 365 366 366 367 367 368 368
	14.3	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.4	Control panel Armrest Multi-function lever ng the windscreen Replacing the windscreen panel in roof Control panel in roof Outer roof . Inspection doors Replacing the windscreen wiper Replacing the blower	362 363 365 366 366 367 367 368 368 368 368
	14.3	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Control 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.4 14.4.5	Control panel Armrest Armrest Multi-function lever ng the windscreen Replacing the windscreen	362 363 365 366 366 367 367 368 368 368 369 370
	14.3 14.4	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.3 14.4.4 14.4.5 14.4.6	Control panel Armrest Multi-function lever ng the windscreen Replacing the windscreen panel in roof Control panel in roof Outer roof Inspection doors Replacing the windscreen wiper Replacing the blower Replacing the heating element/tap Replacing evaporator	362 363 365 366 366 367 367 368 368 368 368 370 370
	14.3	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Control 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.4 14.4.5 14.4.6 Trouble	Control panel Armrest Multi-function lever ng the windscreen Replacing the windscreen panel in roof Control panel in roof Outer roof Inspection doors Replacing the windscreen wiper Replacing the blower Replacing the heating element/tap Replacing the heating element/tap Replacing climate control	362 363 365 365 366 366 367 367 368 368 368 368 370 370 371
	14.3 14.4	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Control 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.3 14.4.4 14.4.5 14.4.6 Trouble 14.5.1	Control panel Armrest Multi-function lever ng the windscreen Replacing the windscreen panel in roof Control panel in roof Outer roof Inspection doors Replacing the windscreen wiper Replacing the blower Replacing the heating element/tap Replacing the heating element/tap Replacing evaporator eshooting – Climate control Climate control faults in general	362 365 365 366 366 367 367 368 368 368 368 370 370 371 371
	14.3 14.4	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.3 14.4.4 14.4.5 14.4.6 Trouble 14.5.1 14.5.2	Control panel Armrest Multi-function lever ing the windscreen Replacing the windscreen I panel in roof Control panel in roof Outer roof Inspection doors Replacing the windscreen wiper Replacing the blower Replacing the blower Replacing the heating element/tap Replacing evaporator eshooting – Climate control Climate control faults in general ECS – Electronic control unit	362 363 365 365 366 367 367 368 369 370 370 371 371 371
	14.3 14.4	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Control 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.3 14.4.4 14.4.5 14.4.6 Trouble 14.5.1	Control panel Armrest Multi-function lever ng the windscreen Replacing the windscreen panel in roof Control panel in roof Outer roof Inspection doors Replacing the windscreen wiper Replacing the blower Replacing the heating element/tap Replacing the heating element/tap Replacing evaporator eshooting – Climate control Climate control faults in general	362 363 365 365 366 367 367 368 369 370 370 371 371 371
15	14.3 14.4 14.5	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.4 14.4.5 14.4.6 Trouble 14.5.1 14.5.2 14.5.3	Control panel Armrest Multi-function lever ng the windscreen Replacing the windscreen panel in roof Control panel in roof Outer roof Inspection doors Replacing the windscreen wiper Replacing the blower Replacing the heating element/tap Replacing evaporator eshooting – Climate control Climate control faults in general ECS – Electronic control unit Troubleshooting table	362 363 365 365 366 367 367 368 369 370 371 371 371 371 371
15	14.3 14.4 14.5	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.4 14.4.5 14.4.6 Trouble 14.5.1 14.5.2 14.5.3 aulics	Control panel	362 363 365 366 366 367 367 367 368 368 369 370 370 371 371 371 371 371 371
15	14.3 14.4 14.5 Hydr	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.4 14.4.5 14.4.6 Trouble 14.5.1 14.5.2 14.5.3	Control panel Armrest Armrest Multi-function lever ng the windscreen Replacing the windscreen I panel in roof Control panel in roof Outer roof . Inspection doors Replacing the windscreen wiper Replacing the blower Replacing the heating element/tap Replacing evaporator eshooting – Climate control Climate control faults in general ECS – Electronic control unit Troubleshooting table	362 363 365 366 366 367 368 368 368 368 369 370 370 371 371 371 371 371 371 371
15	14.3 14.4 14.5 Hydr	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Control 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.4 14.4.5 14.4.6 Trouble 14.5.1 14.5.2 14.5.3 aulics Genera 15.1.1	Control panel Armrest Armrest Multi-function lever ng the windscreen Replacing the windscreen I panel in roof Control panel in roof Outer roof . Inspection doors Replacing the windscreen wiper Replacing the blower Replacing the heating element/tap Replacing evaporator eshooting – Climate control Climate control faults in general ECS – Electronic control unit. Troubleshooting table	362 363 365 366 366 367 367 368 369 370 370 370 371 371 371 371 371 375 377 377
15	14.3 14.4 14.5 Hydr	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Control 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.4 14.4.5 14.4.6 Trouble 14.5.1 14.5.2 14.5.3 aulics Genera	Control panel Armrest Multi-function lever mg the windscreen Replacing the windscreen panel in roof Control panel in roof Outer roof Outer roof Inspection doors Replacing the windscreen wiper Replacing the blower Replacing the heating element/tap Replacing evaporator eshooting – Climate control Climate control faults in general ECS – Electronic control unit Troubleshooting table	362 363 365 366 366 367 368 369 370 370 370 371 371 371 371 371 377 377 377
15	14.3 14.4 14.5 Hydr	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.4 14.4.5 14.4.6 Trouble 14.5.1 14.5.2 14.5.3 Replaci 14.5.1 14.5.2 14.5.3 Contro 15.1.1 15.1.2	Control panel Armrest Armrest Multi-function lever ng the windscreen Replacing the windscreen I panel in roof Control panel in roof Outer roof . Inspection doors Replacing the windscreen wiper Replacing the blower Replacing the heating element/tap Replacing evaporator eshooting – Climate control Climate control faults in general ECS – Electronic control unit. Troubleshooting table	362 363 365 366 366 367 367 368 369 370 371 371 371 371 371 377 377 377 379 380
15	14.3 14.4 14.5 Hydr	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.4 14.4.5 14.4.6 Trouble 14.5.1 14.5.2 14.5.3 aulics Genera 15.1.1 15.1.2 15.1.3 15.1.4	Control panel Armrest Multi-function lever mg the windscreen Replacing the windscreen I panel in roof Control panel in roof Outer roof Outer roof Inspection doors Replacing the windscreen wiper Replacing the blower Replacing the heating element/tap Replacing evaporator eshooting – Climate control Climate control faults in general ECS – Electronic control unit Troubleshooting table	362 363 365 366 367 367 368 369 370 370 371 371 371 371 371 375 377 379 380 381
15	14.3 14.4 14.5 Hydr 15.1	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.4 14.4.5 14.4.6 Trouble 14.5.1 14.5.2 14.5.3 aulics Genera 15.1.1 15.1.2 15.1.3 15.1.4	Control panel Armrest Multi-function lever mg the windscreen Replacing the windscreen I panel in roof Control panel in roof Outer roof Inspection doors. Replacing the windscreen wiper Replacing the blower Replacing the blower Replacing evaporator Behooting – Climate control Climate control faults in general ECS – Electronic control unit. Troubleshooting table	362 363 365 366 366 367 367 368 368 369 370 370 371 371 371 371 371 371 375 377 379 380 381 382
15	14.3 14.4 14.5 Hydr 15.1	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.4 14.4.5 14.4.6 Trouble 14.5.1 14.5.2 14.5.3 Cenera 15.1.1 15.1.2 15.1.3 15.1.4 Hydrau 15.2.1	Control panel Armrest Multi-function lever mg the windscreen Replacing the windscreen I panel in roof Control panel in roof Outer roof Inspection doors Replacing the windscreen wiper Replacing the blower Replacing the heating element/tap Replacing evaporator eshooting – Climate control Climate control faults in general ECS – Electronic control unit Troubleshooting table	362 363 365 365 366 367 367 368 368 369 370 370 371 371 371 371 371 375 377 379 380 381 382 382
15	14.3 14.4 14.5 Hydr 15.1	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.4 14.4.5 14.4.6 Trouble 14.5.1 14.5.2 14.5.3 Cenera 15.1.1 15.1.2 15.1.3 15.1.4 Hydrau 15.2.1	Control panel	362 363 365 366 366 367 368 369 370 371 371 371 371 371 371 377 377 379 380 381 382 382 385
15	14.3 14.4 14.5 Hydr 15.1	14.1.1 14.1.2 14.1.3 Replaci 14.2.1 Contro 14.3.1 Roof 14.4.1 14.4.2 14.4.3 14.4.4 14.4.5 14.4.6 Trouble 14.5.1 14.5.2 14.5.3 Cenera 15.1.1 15.1.2 15.1.3 15.1.4 Hydrau 15.2.1 Hydros	Control panel	362 363 365 366 366 367 367 368 369 370 371 371 371 371 371 371 377 377 379 380 381 382 385 385 385



	15.5	Handbra	a ke	388
		15.5.1	Hand brake	388
	15.6	Διιχίδιαι	ry hydraulics	
		15.6.1	Auxiliary hydraulics	
	45 3			
	15.7	-	table	
		15.7.1	Cutting table	
	15.8	Auto Le	evel	394
		15.8.1	Auto Level - hydraulic cylinders	394
	15.9		· · · · · · · · · · · · · · · · · · ·	
	10.5	15.9.1	Reel	
	45 40			
	15.10		g	
			Steering - hydraulics	
	15.11	Cylinde	r variator	399
		15,11,1	Cylinder variator - hydraulics	399
	15 12		, ing auger	
			Unloading auger - hydraulics	
	46 49			
	15.13		ng	
			Reversing - hydraulics	
	15.14		preader	
		15.14.1	Chaff spreader - hydraulics	402
	15.15		oreader	
			Maxi Spreader - hydraulics	
	16 16		shooting - hydrostatic transmission	
	15.10			
		15.16.1	Hydrostatic transmission faults in general.	
		15.16.2	Pump and motor specifications	
		15.16.3	Functional diagram, HPV pump - HMF motor	406
		15.16.4	Connecting test equipment	408
		15,16,5	Troubleshooting table	
		15.16.6	Checking the charge pump	
		15.16.7	Checking the high pressure valves	
		15.16.8	Checking the cold start valve.	
		15.16.9	5	
		15.16.10	Checking the hydraulic pump	412
		15.16.11	Checking the hydraulic motor	413
16				
	Elect	rical sv	/stem	415
			/stem	
	Elect 16.1	Genera	İ	417
	16.1	Genera 16.1.1	Electrical system, general	417 417
		General 16.1.1 Descrip	Electrical system, general	417 417 418
	16.1	Genera 16.1.1 Descrip 16.2.1	Electrical system, general tion of DATAVISION Description of DATAVISION	417 417 418 418
	16.1	General 16.1.1 Descrip	Electrical system, general tion of DATAVISION Description of DATAVISION	417 417 418 418 419
	16.1 16.2	Genera 16.1.1 Descrip 16.2.1	Electrical system, general tion of DATAVISION Description of DATAVISION	417 417 418 418 419
	16.1 16.2	General 16.1.1 Descrip 16.2.1 Electric	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal	417 417 418 418 419 419
	16.1 16.2	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers	417 417 418 418 419 419 419
	16.1 16.2 16.3	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibra	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers. tions	417 417 418 418 419 419 419 422
	16.1 16.2 16.3	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers tions Speed calibration	417 417 418 418 419 419 419 422 422
	16.1 16.2 16.3	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1 16.4.2	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers tions Speed calibration Calibrating the concave	417 417 418 418 419 419 419 422 422 422
	16.1 16.2 16.3	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibra 16.4.1 16.4.2 16.4.3	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers. tions Speed calibration Calibrating the concave Shaft alarm calibration	417 417 418 419 419 419 422 422 422 422 422
	16.1 16.2 16.3	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1 16.4.2	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers. tions Speed calibration Calibrating the concave Shaft alarm calibration. Calibrating the electrical sieves.	417 418 418 419 419 419 422 422 422 422 422 423
	16.1 16.2 16.3	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibra 16.4.1 16.4.2 16.4.3	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers. tions Speed calibration Calibrating the concave Shaft alarm calibration	417 418 418 419 419 419 422 422 422 422 422 423
	16.1 16.2 16.3	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1 16.4.2 16.4.3 16.4.3	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers tions Speed calibration Calibrating the concave Shaft alarm calibration. Calibrating the electrical sieves. Calibrating the electrical straw deflectors	417 418 418 419 419 422 422 422 422 422 423 423
	16.1 16.2 16.3	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1 16.4.2 16.4.3 16.4.4 16.4.5 16.4.6	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers tions Speed calibration Calibrating the concave Shaft alarm calibration. Calibrating the electrical sieves. Calibrating the electrical straw deflectors Calibrating the Auto Level combine	417 418 418 419 419 422 422 422 422 422 423 423 423
	16.1 16.2 16.3 16.4	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1 16.4.2 16.4.3 16.4.3 16.4.4 16.4.5 16.4.6 16.4.7	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers tions Speed calibration Calibrating the concave Shaft alarm calibration Calibrating the electrical sieves. Calibrating the electrical straw deflectors Calibrating the Auto Level combine Table calibration.	417 418 418 419 419 422 422 422 422 422 422 423 423 423 423
	16.1 16.2 16.3	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1 16.4.2 16.4.3 16.4.4 16.4.5 16.4.6 16.4.7 Diagram	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers. tions Speed calibration Calibrating the concave Shaft alarm calibration. Calibrating the electrical sieves. Calibrating the electrical straw deflectors Calibrating the Auto Level combine Table calibration. ns overview	417 418 418 419 419 419 422 422 422 422 422 422 422 423 423 423
	16.1 16.2 16.3 16.4	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1 16.4.2 16.4.3 16.4.4 16.4.5 16.4.6 16.4.7 Diagram 16.5.1	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers. tions Speed calibration Calibrating the concave Shaft alarm calibration. Calibrating the electrical sieves. Calibrating the electrical straw deflectors Calibrating the Auto Level combine Table calibration. ns overview Diagrams overview	417 418 418 419 419 419 422 422 422 422 422 422 422 423 423 423
	16.1 16.2 16.3 16.4	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1 16.4.2 16.4.3 16.4.3 16.4.4 16.4.5 16.4.6 16.4.7 Diagram 16.5.1 Wiring of	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers. tions Speed calibration Calibrating the concave Shaft alarm calibration. Calibrating the electrical sieves. Calibrating the electrical straw deflectors Calibrating the electrical straw deflectors Calibrating the Auto Level combine Table calibration. ns overview Diagrams overview	417 418 418 419 419 419 422 422 422 422 422 422 422 423 423 423
	16.1 16.2 16.3 16.4	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1 16.4.2 16.4.3 16.4.3 16.4.4 16.4.5 16.4.6 16.4.7 Diagram 16.5.1 Wiring o 16.6.1	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers. tions Speed calibration Calibrating the concave Shaft alarm calibration. Calibrating the electrical sieves. Calibrating the electrical straw deflectors Calibrating the Auto Level combine Table calibration. ns overview Diagrams overview diagrams.	417 418 418 419 419 419 422 422 422 422 422 422 422 423 423 423
	16.1 16.2 16.3 16.4	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1 16.4.2 16.4.3 16.4.3 16.4.4 16.4.5 16.4.6 16.4.7 Diagram 16.5.1 Wiring o 16.6.1	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers. tions Speed calibration Calibrating the concave Shaft alarm calibration. Calibrating the electrical sieves. Calibrating the electrical straw deflectors Calibrating the electrical straw deflectors Calibrating the Auto Level combine Table calibration. ns overview Diagrams overview	417 418 418 419 419 419 422 422 422 422 422 422 422 423 423 423
	16.1 16.2 16.3 16.4 16.5 16.6	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1 16.4.2 16.4.3 16.4.3 16.4.4 16.4.5 16.4.6 16.4.7 Diagram 16.5.1 Wiring o 16.6.1	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers. tions Speed calibration Calibrating the concave Shaft alarm calibration. Calibrating the electrical sieves. Calibrating the electrical straw deflectors Calibrating the Auto Level combine Table calibration. ns overview Diagrams overview diagrams.	417 418 418 419 419 422 422 422 422 422 422 423 423 423 423
	16.1 16.2 16.3 16.4 16.5 16.6	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1 16.4.2 16.4.3 16.4.4 16.4.5 16.4.6 16.4.7 Diagram 16.5.1 Wiring o 16.6.1 Diagram 16.7.1	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers. tions Speed calibration Calibrating the concave Shaft alarm calibration. Calibrating the electrical sieves. Calibrating the electrical straw deflectors Calibrating the electrical straw deflectors Calibrating the Auto Level combine Table calibration. ns overview Diagrams overview diagrams. Wiring diagrams. ns - computer input/output.	417 418 418 419 419 422 422 422 422 422 422 422 423 423 423
	16.1 16.2 16.3 16.4 16.5 16.6 16.7	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1 16.4.2 16.4.3 16.4.4 16.4.5 16.4.6 16.4.7 Diagram 16.5.1 Wiring of 16.6.1 Diagram	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers. tions Speed calibration Calibrating the concave Shaft alarm calibration. Calibrating the electrical sieves. Calibrating the electrical sieves. Calibrating the electrical straw deflectors Calibrating the Auto Level combine Table calibration. ns overview Diagrams overview diagrams Wiring diagrams. ms - computer input/output Diagrams input/output.	417 418 418 419 419 422 422 422 422 422 422 422 422 423 423
	16.1 16.2 16.3 16.4 16.5 16.6 16.7 16.8	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1 16.4.2 16.4.3 16.4.4 16.4.5 16.4.6 16.4.7 Diagram 16.5.1 Wiring of 16.6.1 Diagram 16.7.1 Diagram 16.8.1	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers tions Speed calibration Calibrating the concave Shaft alarm calibration Calibrating the electrical sieves Calibrating the electrical straw deflectors Calibrating the electrical straw deflectors Calibrating the electrical straw deflectors Calibrating the Auto Level combine Table calibration ns overview Diagrams overview diagrams Wiring diagrams ms - computer input/output Diagrams input/output Diagrams input/output Diagramme ECU sensor connections, Stage 3B engine, 6 cylinders.	417 418 418 419 419 422 422 422 422 422 422 422 422 423 423
	16.1 16.2 16.3 16.4 16.5 16.6 16.7	General 16.1.1 Descrip 16.2.1 Electric 16.3.1 16.3.2 Calibrat 16.4.1 16.4.2 16.4.3 16.4.4 16.4.5 16.4.6 16.4.7 Diagram 16.5.1 Wiring of 16.6.1 Diagram 16.7.1 Diagram 16.8.1	Electrical system, general tion of DATAVISION Description of DATAVISION box Replacing the terminal Replacing the job computers. tions Speed calibration Calibrating the concave Shaft alarm calibration. Calibrating the electrical sieves. Calibrating the electrical sieves. Calibrating the electrical straw deflectors Calibrating the Auto Level combine Table calibration. ns overview Diagrams overview diagrams Wiring diagrams. ms - computer input/output Diagrams input/output.	417 418 418 419 419 419 422 422 422 422 422 422 422 422 423 423



	16.10	W-conn	ecting points	457
		16.10.1	W-connecting points	457
	16.11	Compo	nents	458
		16.11.1	Components	458
	16.12	Key to	symbols	526
		16.12.1	Key to symbols	526
	16.13	Wiring	overview	527
		16.13.1	Wiring overview	527
	-	_		
17			per	
	17.1		I	
		17.1.1	Replacing and calibrating the electric actuator – straw deflectors	575
10	Game		amply instructions	
10			sembly instructions	
	18.1	-	gib-head keys	
	40.0	18.1.1	Fitting gib-head keys	
	18.2	-	tightening pins	
	40.0	18.2.1	Fitting tightening pins	
	18.3	-	hydraulic pipes and screw connections	
	40.4	18.3.1	Fitting hydraulic pipes and screw connections	
	18.4	-	a flanged bearing with locking collar	
	40 -	18.4.1	Fitting a flanged bearing with locking collar	
	18.5	-	sliding bushings	
	40.0	18.5.1	Fitting sliding bushings	
	18.6		ing the revolution sensor	
		18.6.1	Removing the revolution sensor.	
	18.7		tightening rings	
		18.7.1	Fitting tightening rings.	586
19	Misc	ellaned	ous data	587
	19.1		I	
		19.1.1	Miscellaneous data, general	
	19.2		- adjustment values	
		19.2.1	Speeds - adjustment values	
	19.3		nance	
		19.3.1	Lubrication chart, intervals	
		19.3.2	Lubrication chart, right- and left-hand side	
		19.3.3	Lubrication chart, main crop elevator and front axle	
		19.3.4	Lubrication points, left-hand machine side	
		19.3.5	Lubrication points, right-hand machine side	
		19.3.6	Recommended lubricants	
		19.3.7	Gear	
		19.3.8	Air-conditioning	
		19,0,0		024



1. Introduction - Specifications

1.1	Using	the manual	. 15
	1.1.1	Using the manual	. 15
1.2	Genera	al specifications	. 16
	1.2.1	General specifications	. 16
	1.2.2	Tyre pressure	. 19
1.3	Dimen	sions and weight	. 21
	1.3.1	Dimensions and weight	. 21
1.4	Safety	precautions.	. 23
	1.4.1	Safety precautions	. 23
	1.4.2	Safety in the workshop	. 23
	1.4.3	Safety - a word to the mechanic	
	1.4.4	Safety - danger, warning and caution	
	1.4.5	Safety decals.	. 24
	1.4.6	General	. 24
	1.4.7	Personal safety	. 24
	1.4.8	Considerations with regard to equipment	. 25
	1.4.9	General considerations	
	1.4.10	Operational considerations	. 26
	1.4.11	Maintenance techniques	. 27
1.5	Practic	cal advice	. 29
	1.5.1	Practical advice	. 29
1.6	Start-u	ıp instructions	. 33
	1.6.1	General	
	1.6.2	Pre-delivery checks	
	1.6.3	Instruction of combine operator	
1.7	Conve	rsion tables	
	1.7.1	Conventional units of measurement	
1.8	Lockin	ig and sealing agents	. 39
	1.8.1	Locking and sealing agents	. 39
1.9	Wheel	nut torques	
	1.9.1	Wheels	
	1.9.2	Bolts with metric threads.	
	1.9.3	Nuts with metric threads	



T008027

1.1 Using the manual

1.1.1 Using the manual

General

All operations described in this manual relating to repairs and maintenance must only be carried out by trained service personnel. The purpose of the manual is to help dealers and workshops start up, service and repair AGCO's equipment as efficiently and effectively as possible. If the specified procedures are followed and the recommended special tools used where necessary, jobs can be completed within the time indicated in the "Repair Time Schedule" manual.

Pagination

Example: see §3.1.3, page 83

This manual is divided into chapters and sections. In the example the figures show:

First figure = Chapter

Second figure = Section

Third figure = Consecutive number in the section in question

69 = Page number in manual

The publication number and version appear at the bottom of the page.

Use

To make it easier to look things up, there is a table of contents at the beginning of every chapter listing the various sections in the chapter.

Modifications

Modified pages have the same section numbering as their predecessors: Only the page number and version number change.

The old pages must be destroyed.

Service tools

In the case of jobs that require service tools, the number of the tool is specified at the point in the text where it is needed.

Repairs and replacing parts

When replacing parts, it is very important to only ever use genuine AGCO spares.

Please pay particular attention to the following points when it comes to repairs and fitting spare parts or other equipment.

Fitting non-genuine spare parts may impair the safety of the machine.

In some countries it is against the law to fit parts that do not conform to the manufacturer's specifications. Torque wrenches must always be adjusted in accordance with the instructions given in the workshop manual. Fit locking devices where specified. If the locking device breaks when removed, fit a new one.

If non-genuine AGCO parts are fitted, the machine will no longer be covered by the right to complain, as the manufacturer provides a warranty on all AGCO components. AGCO dealers are under the obligation to supply genuine parts only.

Repair Time Schedule

The "Repair Time Schedule" manual contains a table of standard time requirements for the commonest repairs on a combine. The manual's sections follow the layout of the spare parts catalogue. **General specifications**

16

1.2.1 General specifications

Cutting table Quick-attach type, can be attached and removed directly on the ground. Power take-off with transmission shaft	Unit	7280 CENTORA	7282 CENTORA
Cutting height PowerFlow	cm	-40 to +148	-40 to +148
Knife speed	strokes/ min.	1138	1138
Hydraulically balanced by pressure accumulators		yes	yes
Electrohydraulic cutting height presetting		yes	yes

Reel	Unit	7280 CENTORA	7282 CENTORA
Electrohydraulic reel drive	rpm	0-50	0-50
Peripheral speed	km/h	0-9.1	0-9.1
Electrohydraulic reel control up/down and fore/aft		yes	yes

Threshing cylinder	Unit	7280 CENTORA	7282 CENTORA
Speed, normal	rpm	400-1120	400-1120
Speed, reduced	rpm	307-945	307-945
Width	cm	168	168
Number of rasp bars	units	8	8
Diameter	cm	60	60
Weight	kg	318	318
Electrohydraulic speed adjustment		yes	yes
Peripheral speed	m/sec.	12.3-36.1	12.3-36.1
Peripheral speed, reduced	m/sec.	9.6-29.7	9.6-29.7

Concave	Unit	7280 CENTORA	7282 CENTORA
Concave area	cm ²	10600	10600
Number of rub bars	units	13	13
Concave wires, self-cleaning, spring steel	mm	Ø 3.5	Ø 3.5
Concave wrap	degrees	117	117
Concave adjustable from operator seat		yes	yes

Rear beater	Unit	7280 CENTORA	7282 CENTORA
Diameter	cm	37.5	37.5

Rotary Separator	Unit	7280 CENTORA	7282 CENTORA
Speed, normal	rpm	950	950
Speed, reduced	rpm	475	475
Width	cm	168	168
Diameter	cm	50	50
Separation area	CM ²	10400	10400



1.2

T008028



1

Straw walkers	Unit	7280 CENTORA	7282 CENTORA
Oty	units	8	8
Area	Cm ²	7400	7400
Area with rotary separator	CM ²	6680	6680
Length	cm	400	400
Number of steps	units	5	5
Shutters in straw hood for cleaning straw walkers		yes	yes

Main grain pan	7280 CENTORA	7282 CENTORA
Two-sectioned lengthwise	yes	yes
Stepped sections removable for cleaning	yes	yes
Crop channelling	yes	yes

Shaker shoe	Unit	7280 CENTORA	7282 CENTORA
Two-sectioned lengthwise		yes	yes
Adjustable sieves		yes	yes
Sieve area	CM ²	5300	5300
Opposite movement of sieves		yes	yes
Crop channelling		yes	yes
Work light		yes	yes

Fanning mill	Unit	7280 CENTORA	7282 CENTORA
Two-sectioned centrifugal blower		yes	yes
Electrical speed adjustment from operator seat or at shaker shoe (left-hand side)		yes	yes
Speed	rpm	460-1150	460-1150
Reduced speed	rpm	310-790	310-790

Grain tank	Unit	7280 CENTORA	7282 CENTORA
Capacity	litres	9500	10500 (AL 9500)
Inside light		yes	yes
Adjustable full warning		yes	yes
Outside steps and inside ladder for easy access		yes	yes
Sampling tray		yes	yes

Unloading auger	Unit	7280 CENTORA	7282 CENTORA
Enclosed system, electrohydraulically pivotable		yes	yes
Unloading also in partially turned-in position, and without threshing unit being engaged		yes	yes
Unloading (depending on conditions)	sec.	110	121
Unloading height (G)	cm	440	440
Unloading auger diameter	cm	33	33

Engine	Unit	7280 CENTORA	7282 CENTORA	
Type, AGCO SISU POWER		84 AWI 748	84 AWI 680	
Speed	rpm	2100	2100	
Volume	litres	8.4	8.4	
Number of cylinders	units	6	6	
Gross power* (with Power Boost**)	HP	348 (375)	375	
Gross power* (with Power Boost**)	kW	256 (276)	276	
Maximum power***	HP	381	404	
Maximum power***	kW	280	297	
Engine oil, capacity	litres	27	27	
Rotary screen	units	1	1	
Self-cleaning main filter on air intake		yes	yes	
Fuel tank, capacity	litres	750	750	
AdBlue tank, capacity	litres	85	85	
Coolant	litres	45	45	
* Gross power at 2100 rpm according to ECE R 120.				

** Power Boost ensures additional capacity during unloading. Through a signal from the unloading system the engine output is increased by 27 HP / 20 kW during unloading.

*** Maximum power at 1950 rpm according to ECE R 120.

Gear oil	Unit	7280 CENTORA	7282 CENTORA
Gearbox contains	litres	9.5	9.5
Coupler housing for oil motor	litres	1.5	1.5
Final drives contain	litres	6	6

Transmission			Unit	7280 CENTORA	7282 CENTORA
Hydrostatic transmission				yes	yes
4-speed, electric gearshift			yes	yes	
Speed	1. gear	Forward	km/h	0-6	0-6
		Reverse	km/h	0-3*	0-3*
	2. gear	Forward	km/h	0-12	0-12
		Reverse	km/h	0-6	0-6
	3. gear	Forward	km/h	0-20	0-20
		Reverse	km/h	0-10	0-10
	4. gear	Forward	km/h	0-25**	0-25**
		Reverse	km/h	0-12	0-12
*Reverse speed ranges	up to 6 km/h	when the th	reshing u	nit is engaged.	1
** Applies to all countri	es except Ger	many where	e max, spe	eed is 20 km/h.	

Brakes	7280 CENTORA	7282 CENTORA
Hydraulically activated independent brakes	yes	yes
Electric/mechanical parking brake	yes	yes



Operator cab	7280 CENTORA	7282 CENTORA
Integrated operator environment with rubber suspension for platform and cab	yes	yes
Electrical control of all functions	yes	yes
DATAVISION	yes	yes
Fully automatic air conditioning	yes	yes
"Sealed Beams" light system with 10 fixed lamps for cutting table, area in front of and to the right of the machine plus unloading auger	yes	yes
Deluxe seat	yes	yes

Hydraulic system	Unit	7280 CENTORA	7282 CENTORA
Decentralised, electrically controlled valve functions		yes	yes
Pump	units	3	3
Hydraulic orbitrol steering		yes	yes
Hydraulic system contains	litres	90	90
Hydraulic tank contains	litres	34	34

1.2.2 Tyre pressure

NOTE: Use only the tyres listed in the chart below or in the technical specifications of the combine.

⊤005755

1

Model	Tyre size	Make	Rim	Pressure, bar
Traction wheels				
7280 CENTORA	650/75 R32	CONTINENTAL	DW21Ax32	4.1
	680/85 R32	CONTINENTAL	DW21Ax32	3.2
	800/65 R32	GOODYEAR	DW27Ax32	2.0
	900/55 R32	GOODYEAR	DW27Ax32	1.9
	900/60 R32	MICHELIN	DW27Ax32	2.0
	1050/50 R32	MICHELIN	DW36Ax32	1.9
7282 CENTORA	650/75 R32	CONTINENTAL	DW21Ax32	4.1
	680/85 R32	CONTINENTAL	DW21Ax32	3.2
	800/65 R32	GOODYEAR	DW27Ax32	2.0
	900/55 R32	GOODYEAR	DW27Ax32	1.9
	900/60 R32	MICHELIN	DW27Ax32	2.0
	1050/50 R32	MICHELIN	DW36Ax32	1.9
7280 AL CENTORA	620/75 R34	GOODYEAR	DW20Ax34	4.0
	800/65 R32	GOODYEAR	DW27Ax32	3.0
	900/55 R32	GOODYEAR	DW27Ax32	1.9
7282 AL CENTORA	620/75 R34	GOODYEAR	DW20Ax34	4.0
	800/65 R32	GOODYEAR	DW27Ax32	3.0
	900/55 R32	GOODYEAR	DW27Ax32	1.9
Rear wheels				
7280 CENTORA	600/55-26.5	TRELLEBORG	20.0x26.5	1.5
	500/60-26.5	TRELLEBORG	16.0x26.5	2.2
7282 CENTORA	600/55-26.5	TRELLEBORG	20.0x26.5	1.5
	500/60-26.5	TRELLEBORG	16.0x26.5	2.2



1. Introduction - Specifications

Model	Tyre size	Make	Rim	Pressure, bar	
Rear wheels, four-wheel drive					
7280 CENTORA	600/55-26.5	TRELLEBORG	20.0x26.5	1.5	
	500/60-26.5	TRELLEBORG	16.0x26.5	2.2	
7282 CENTORA	600/55-26.5	TRELLEBORG	20.0×26.5	1.5	
	500/60-26.5	TRELLEBORG	16.0×26.5	2.2	
Wheels, table trailer					
Without brakes	185/60R12		6.00lx12H12	6.5	
With brakes	195/50R13		5.5Jx13H2	6.5	



WARNING:

Twin wheels/dual wheels must not be fitted to the machine. AGCO disclaims all liability resulting from the use of equipment not approved by AGCO. Thank you so much for reading. Please click the "Buy Now!" button below to download the complete manual.



After you pay.

You can download the most perfect and complete manual in the world immediately.

Our support email:

ebooklibonline@outlook.com