

Workshop Manual for 7280 CENTORA Combine Series

MF7280 - MF7282 CENTORA + Auto Level



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1.1 Using the manual

1.1.1 Using the manual

T008027

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.

1.2 General specifications

1.2.1 General specifications

T008028

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

Straw walkers	Unit	7280 CENTORA	7282 CENTORA
Qty	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

1

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 threshing unit is engaged.						
** Applies to all countries except Germany where max. speed is 20 km/h.						

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



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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

T005755

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

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

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	20.0x26.5	1.5
	500/60-26.5	TRELLEBORG	16.0x26.5	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.

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