



1 . INTRODUCTION

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A . Using the manual

General

The purpose of this manual is to assist Distributors and Dealers in the efficient installation, maintenance and repair of AGCO machinery. Carrying out the procedures as detailed, together with the use of special tools where appropriate, will enable the operations to be completed within the time stated in the repair time schedule.

Page numbering

Example : 7C01-3

This manual is divid-

C = Part

01 = Sequence number within the Part

3 = Page number within the Part

The issue number and the date are indicated at the bottom of the page.

Using the manual

To assist with locating information, each section of the manual is preceded by an index listing the Parts contained in that section.

The preliminary operations to be carried out in order to reach the item involved are listed at the beginning of each Part.

Items are indicated by means of identification marks (circles, squares, triangles).

Meaning of identification marks

circle (..) identifies part only

Amendments

Amended pages will be issued carrying the same page number as previous pages : only the issue number and the date will change.

Old pages should be destroyed.

Special tools

Where the use of a special tool is necessary in an operation, the tool number is shown following the instruction requiring its use.

Repairs and replacements

When parts have to be replaced, it is essential that only genuine AGCO parts are used.

Attention is particularly drawn to the following points concerning repairs and the fitting of replacement parts and accessories.

Safety features embodied in the tractor may be impaired if other than genuine parts are fitted.

In certain territories, legislation prohibits the fitting of parts not to the tractor manufacturer's specification.

Torque wrench setting figures given in the Workshop Manual must be strictly adhered to. Locking devices must be fitted where specified. If the efficiency of a locking device is impaired during removal it must be renewed.

The tractor warranty may be invalidated by the fitting of other than genuine AGCO parts. All AGCO replacement parts have the full backing of the manufacturer's warranty. AGCO Distributors and Dealers are obliged to supply only genuine service parts.

Repair time schedule

The sections in the repair time schedule are identical to those in the workshop manual.



Introduction

B . Specifications

Engine

Characteristic	6235*	6245*	6255*	6260	6265	6270	6280	6290
Perkins Motor	1004-40T	1004-40T	1004-40T	1004-40	1004-40T	1006-60T	1006-60T	1006-60T
Number of cylinders	4	4	4	6	4	6	6	6
Turbocharger	yes	yes	yes	no	yes	yes	yes	yes
Bore (mm)	100	100	100	100	100	100	100	100
Stroke (mm)	127	127	127	127	127	127	127	127
Cubic capacity (mm)	4	4	4	6	4	6	6	6
Nominal power (ISO Kw)	55,2	62,5	69,9	77,2	77,2	84,6	91,9	99,3
At engine speed of rev/min	2200	2200	2200	2200	2200	2200	2200	2200
Maximum torque (ISO Nm)	316	347	385	417	396	463	503	547
Engine speed at maximum torque	1400	1400	1400	1400	1400	1400	1400	1400
Idling speed	1000	1000	1000	1000	1000	1000	1000	1000
Maximum rated speed rev/min	2200	2200	2200	2200	2200	2200	2200	2200
Maximum no load speed rev/min	2354	2354	2354	2354	2354	2354	2354	2354
Lubrication	Gear type pump, strainer on suction side and external canister type filter(s)							
Valves	Overhead, push-road operated							
Valves clearance (cold)								
- Inlet (mm)	0,20	0,20	0,20	0,20	0,20	0,20	0,20	0,20
- Exhaust (mm)	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45
Engine oil cooler	yes	yes	yes	yes	yes	yes	yes	yes

Fuel system and air cleaner

Characteristic	6235*	6245*	6255*	6260	6265	6270	6280	6290
Fuel filter with sediment bowl	yes	yes	yes	yes	yes	yes	yes	yes
Number of elements	1	1	1	2	1	2	2	2
Fuel injection pump	Lucas							
Injectors and nozzle holders	Lucas							
Cold weather starting	Thermostart							
Air cleaner : two-stage, dry element with blockage indicator								

* For all models ; standard and steep nose



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Road speeds at 2200 rev/min "Speedshift" and creeper gear. Tyres 16.9R34

Range	FORWARD (Kph / Mph)		REVERSE (Kph / Mph)			
	Speedshift	Creeper 1/4	Speedshift		Creeper 1/4	
	Mechanical reverse and Power shuttle		Mechanical	Power shuttle	Mechanical	Power shuttle
1	2.45 (1.52)	0.61 (0.38)	2.38 (1.48)	2.45 (1.52)	0.60 (0.38)	0.61 (0.38)
2	3.10 (1.93)	0.78 (0.48)	3.01 (1.87)	3.10 (1.93)	0.75 (0.47)	0.78 (0.48)
3	3.70 (2.30)	0.93 (0.58)	3.60 (2.24)	3.70 (2.30)	0.90 (0.56)	0.93 (0.58)
4	4.68 (2.91)	1.17 (0.73)	4.55 (2.83)	4.68 (2.91)	1.14 (0.71)	1.17 (0.73)
5	5.13 (3.19)	1.28 (0.80)	4.98 (3.10)	5.13 (3.19)	1.25 (0.78)	1.28 (0.80)
6	6.48 (4.03)	1.62 (1.01)	6.30 (3.92)	6.48 (4.03)	1.57 (0.98)	1.62 (1.01)
7	7.42 (4.61)	1.86 (1.16)	7.21 (4.48)	7.42 (4.61)	1.80 (1.12)	1.86 (1.16)
8	9.38 (5.83)	2.35 (1.46)	9.12 (5.67)	9.38 (5.83)	2.28 (1.42)	2.35 (1.46)
9	9.84 (6.12)		9.56 (5.94)	9.84 (6.12)		
10	12.43 (7.73)		12.08 (7.51)	12.43 (7.73)		
11	14.86 (9.24)		14.44 (8.97)	14.86 (9.24)		
12	18.78 (11.67)		18.25 (11.34)	18.78 (11.67)		
13	20.56 (12.78)		19.98 (12.42)	20.56 (12.78)		
14	25.99 (16.15)		25.25 (15.69)	25.99 (16.15)		
15	29.77 (18.50)		28.92 (17.97)	29.77 (18.50)		
16	37.62 (23.38)		36.56 (22.72)	37.62 (23.38)		

Road speeds at 2200 rev/min "Speedshift" and creeper gear. Tyres 16.9R38

Range	FORWARD (Kph / Mph)		REVERSE (Kph / Mph)			
	Speedshift	Creeper 1/4	Speedshift		Creeper 1/4	
	Mechanical reverse and Power shuttle		Mechanical	Power shuttle	Mechanical	Power shuttle
1	2.43 (1.51)	0.61 (0.38)	2.36 (1.47)	2.43 (1.51)	0.59 (0.37)	0.61 (0.38)
2	3.07 (1.91)	0.77 (0.48)	2.98 (1.85)	3.07 (1.91)	0.75 (0.47)	0.77 (0.48)
3	3.67 (2.28)	0.92 (0.57)	3.57 (2.22)	3.67 (2.28)	0.89 (0.55)	0.92 (0.57)
4	4.64 (2.88)	1.16 (0.72)	4.51 (2.80)	4.64 (2.88)	1.13 (0.70)	1.16 (0.72)
5	5.08 (3.16)	1.27 (0.79)	4.94 (3.07)	5.08 (3.16)	1.23 (0.76)	1.27 (0.79)
6	6.42 (3.99)	1.61 (1.00)	6.24 (3.88)	6.42 (3.99)	1.56 (0.97)	1.61 (1.00)
7	7.35 (4.57)	1.84 (1.14)	7.15 (4.44)	7.35 (4.57)	1.79 (1.11)	1.84 (1.14)
8	9.30 (5.78)	2.32 (1.44)	9.03 (5.61)	9.30 (5.78)	2.26 (1.40)	2.32 (1.44)
9	9.75 (6.06)		9.47 (5.89)	9.75 (6.06)		
10	12.32 (7.66)		11.97 (7.44)	12.32 (7.66)		
11	14.72 (9.15)		14.30 (8.89)	14.72 (9.15)		
12	18.61 (11.57)		18.08 (11.24)	18.61 (11.57)		
13	20.37 (12.66)		19.79 (12.30)	20.37 (12.66)		
14	25.75 (16.00)		25.02 (15.55)	25.75 (16.00)		
15	29.49 (18.33)		28.66 (17.81)	29.49 (18.33)		
16	37.28 (23.17)		36.22 (22.51)	37.28 (23.17)		



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Introduction

Road speeds at 2200 rev/min "Speedshift" and creeper gear. Tyres 18.4R38

Range	FORWARD (Kph / Mph)		REVERSE (Kph / Mph)			
	Speedshift	Creeper 1/4	Speedshift		Creeper 1/4	
	Mechanical reverse and Power shuttle		Mechanical	Power shuttle	Mechanical	Power shuttle
1	2.51 (1.56)	0.63 (0.39)	2.44 (1.52)	2.51 (1.56)	0.61 (0.38)	0.63 (0.39)
2	3.17 (1.97)	0.79 (0.49)	3.08 (1.91)	3.17 (1.97)	0.77 (0.48)	0.79 (0.49)
3	3.79 (2.36)	0.95 (0.59)	3.68 (2.29)	3.79 (2.36)	0.92 (0.57)	0.95 (0.59)
4	4.79 (2.98)	1.20 (0.75)	4.65 (2.89)	4.79 (2.98)	1.16 (0.72)	1.20 (0.75)
5	5.24 (3.26)	1.31 (0.81)	5.09 (3.16)	5.24 (3.26)	1.27 (0.79)	1.31 (0.81)
6	6.62 (4.11)	1.66 (1.03)	6.43 (4.00)	6.62 (4.11)	1.61 (1.00)	1.66 (1.03)
7	7.59 (4.72)	1.90 (1.18)	7.37 (4.58)	7.59 (4.72)	1.84 (1.84)	1.90 (1.18)
8	9.59 (5.96)	2.40 (1.49)	9.32 (5.79)	9.59 (5.96)	2.33 (1.45)	2.40 (1.49)
9	10.05 (6.25)		9.77 (6.07)	10.05 (6.25)		
10	12.71 (7.90)		12.35 (7.68)	12.71 (7.90)		
11	15.18 (9.43)		14.75 (9.17)	15.18 (9.43)		
12	19.19 (11.93)		18.65 (11.59)	19.19 (11.93)		
13	21.01 (13.06)		20.42 (12.69)	21.01 (13.06)		
14	26.56 (16.51)		25.80 (16.03)	26.56 (16.51)		
15	30.42 (18.91)		29.56 (18.37)	30.40 (18.91)		
16	38.45 (23.90)		37.36 (23.22)	38.45 (23.90)		

Road speeds at 2200 rev/min "Speedshift" and creeper gear. Tyres 20.8R38

Range	FORWARD (Kph / Mph)		REVERSE (Kph / Mph)			
	Speedshift	Creeper 1/4	Speedshift		Creeper 1/4	
	Mechanical reverse and Power shuttle		Mechanical	Power shuttle	Mechanical	Power shuttle
1	2,55 (1,58)	0,64 (0,40)	2,53 (1,57)	2,55 (1,58)	0,63 (0,39)	0,64 (0,40)
2	3,22 (2,00)	0,81 (0,50)	3,20 (1,99)	3,22 (2,00)	0,80 (0,50)	0,81 (0,50)
3	3,85 (2,39)	0,96 (0,60)	3,83 (2,38)	3,85 (2,39)	0,96 (0,60)	0,96 (0,60)
4	4,87 (3,03)	1,22 (0,76)	4,84 (3,01)	4,87 (3,03)	1,21 (0,75)	1,22 (0,76)
5	5,33 (3,31)	1,33 (0,83)	5,30 (3,29)	5,33 (3,31)	1,32 (0,82)	1,33 (0,83)
6	6,73 (4,18)	1,68 (1,04)	6,69 (4,16)	6,73 (4,18)	1,67 (1,04)	1,68 (1,04)
7	7,71 (4,79)	1,93 (1,20)	7,67 (4,77)	7,71 (4,79)	1,92 (1,19)	1,93 (1,20)
8	9,75 (6,06)	2,44 (1,52)	9,69 (6,02)	9,75 (6,06)	2,42 (1,50)	2,44 (1,52)
9	10,22 (6,35)		10,16 (6,31)	10,22 (6,35)		
10	12,92 (8,03)		12,94 (7,98)	12,92 (8,03)		
11	15,44 (9,60)		15,35 (9,54)	15,44 (9,60)		
12	19,51 (12,13)		19,40 (12,06)	19,51 (12,13)		
13	21,36 (13,28)		21,24 (13,20)	21,36 (13,28)		
14	27,00 (16,78)		26,84 (16,68)	27,00 (16,78)		
15	30,93 (19,22)		30,75 (19,11)	30,93 (19,22)		
16	39,09 (24,29)		38,86 (24,15)	39,09 (24,29)		



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Introduction

Road speed forward at 2200 rev/min "Dynashift" and creeper gear

Range	FORWARD (Kph / Mph)							
	Mechanical reverse shuttle and Power shuttle							
Tyres	16.9R34 Creeper 1/4		16.9R38 Creeper 1/4		18.4R38 Creeper 1/4		20.8R38 Creeper 1/4	
1	2.05 (1.27)	0.51 (0.32)	2.03 (1.26)	0.51 (0.32)	2.10 (1.31)	0.52 (0.32)	2.13 (1.32)	0.53 (0.33)
2	2.40 (1.49)	0.60 (0.37)	2.38 (1.48)	0.59 (1.48)	2.45 (1.52)	0.61 (0.38)	2.50 (1.55)	0.62 (0.39)
3	2.83 (1.76)	0.71 (0.44)	2.81 (1.75)	0.70 (0.44)	2.90 (1.80)	0.72 (0.45)	2.95 (1.83)	0.74 (0.46)
4	3.32 (2.06)	0.83 (0.52)	3.29 (2.04)	0.82 (0.51)	3.39 (2.11)	0.85 (0.53)	3.45 (2.14)	0.86 (0.53)
5	3.49(2.17)	0.87 (0.54)	3.45 (2.14)	0.86 (0.53)	3.56 (2.21)	0.89 (0.55)	3.62 (2.25)	0.91 (0.57)
6	4.08 (2.54)	1.02 (0.63)	4.04 (2.51)	1.01 (0.63)	4.17 (2.59)	1.04 (0.65)	4.24 (2.64)	1.06 (0.66)
7	4.82 (3.00)	1.20 (0.75)	4.77 (2.96)	1.19 (0.74)	4.92 (3.06)	1.23 (0.76)	5.01 (3.11)	1.25 (0.78)
8	5.64 (3.51)	1.41 (0.88)	5.59 (3.47)	1.40 (0.87)	5.76 (3.58)	1.44 (0.89)	5.86 (3.64)	1.46 (0.91)
9	4.59 (2.85)	1.15 (0.71)	4.55 (2.83)	1.14 (0.71)	4.69 (2.91)	1.17 (0.73)	4.77 (2.96)	1.19 (0.74)
10	5.37 (3.34)	1.34 (0.83)	5.32 (3.31)	1.33 (0.83)	5.49 (3.41)	1.37 (0.85)	5.58 (3.47)	1.40 (0.87)
11	6.34 (3.94)	1.58 (0.98)	6.28 (3.90)	1.57 (0.98)	6.48 (4.03)	1.62 (1.01)	6.59 (4.10)	1.65 (1.03)
12	7.42 (4.61)	1.86 (1.16)	7.35 (4.57)	1.84 (1.14)	7.58 (4.71)	1.90 (1.18)	7.71 (4.79)	1.93 (1.20)
13	6.21 (3.86)	1.55 (0.96)	6.15 (3.82)	1.54 (0.96)	6.35 (3.95)	1.59 (0.99)	6.45 (4.01)	1.61 (1.00)
14	7.27 (4.52)	1.82 (1.13)	7.20 (4.47)	1.80 (1.12)	7.43 (4.62)	1.86 (1.16)	7.55 (4.69)	1.89 (1.17)
15	8.58 (5.33)	2.14 (1.33)	8.50 (5.28)	2.13 (1.32)	8.77 (5.45)	2.19 (1.36)	8.92 (5.54)	2.23 (1.39)
16	10.04 (6.24)	2.51 (1.56)	9.95 (6.18)	2.49 (1.55)	10.26 (6.38)	2.57 (1.60)	10.44 (6.49)	2.61 (1.62)
17	7.69 (4.78)		7.62 (4.74)		7.86 (4.89)		7.99 (4.97)	
18	9.00 (5.59)		8.92 (5.54)		9.20 (5.72)		9.36 (5.82)	
19	10.63 (6.61)		10.53 (6.54)		10.86 (6.75)		11.04 (6.86)	
20	12.44 (7.73)		12.32 (7.66)		12.71 (7.90)		12.92 (8.03)	
21	13.07 (8.12)		12.95 (8.05)		13.36 (8.30)		13.58 (8.44)	
22	15.29 (9.50)		15.16 (9.42)		15.63 (9.71)		15.90 (9.88)	
23	18.05 (11.22)		17.89 (11.12)		18.45 (11.47)		18.76 (11.66)	
24	21.13 (13.13)		20.94 (13.01)		21.60 (13.42)		21.96 (16.65)	
25	17.20 (10.69)		17.04 (10.59)		17.58 (10.93)		17.88 (11.11)	
26	20.13 (12.51)		19.95 12.40)		20.57 (12.78)		20.92 (13.00)	
27	23.76 (14.77)		23.55 (14.64)		24.29 (15.10)		24.70 (15.35)	
28	27.81 (17..28)		27.56 (17.13)		28.42 (17.66)		28.90 (17.96)	
29	23.27 (14.46)		23.06 (14.33)		23.79 (14.79)		24.19 (15.03)	
30	27.24 (16.93)		26.99 (16.77)		27.84 (17.30.		28.31 (17.59)	
31	32.15 (19.98)		31.86 (19.80)		32.86 (20.42)		33.42 (20.77)	
32	37.64 (23.39)		37.29 (23.18)		38.46 (23.90)		39.11 (24.31)	



Introduction

Road speed reverse at 2200 rev/min "Dynashift"

Range	REVERSE (Kph / Mph)							
	Mechanical reverse shuttle	Power shuttle	Mechanical reverse shuttle	Power shuttle	Mechanical reverse shuttle	Power shuttle	Mechanical reverse shuttle	Power shuttle
Tyres	16.9R34		16.9R38		18.4R38		20.8R38	
1	1,93 (1,20)	2,05 (1,27)	1,91 (1,19)	2,03 (1,26)	1,97 (1,22)	2,10 (1,31)	1,94 (1,21)	2,13 (1,32)
2	2,26 (1,40)	2,40 (1,49)	2,24 (1,39)	2,38 (1,48)	2,31 (1,44)	2,45 (1,52)	2,27 (1,41)	2,50 (1,55)
3	2,67 (1,66)	2,83 (1,76)	2,64 (1,64)	2,81 (1,75)	2,73 (1,70)	2,90 (1,80)	2,68 (1,67)	2,95 (1,83)
4	3,12 (1,94)	3,32 (2,06)	3,09 (1,92)	3,29 (2,04)	3,19 (1,98)	3,39 (2,11)	3,14 (1,95)	3,45 (2,14)
5	3,28 (2,04)	3,49 (2,17)	3,25 (2,02)	3,45 (2,14)	3,35 (2,08)	3,56 (2,21)	3,30 (2,05)	3,62 (2,25)
6	3,84 (2,39)	4,08 (2,54)	3,81 (2,37)	4,04 (2,51)	3,92 (2,44)	4,17 (2,59)	3,86 (2,40)	4,24 (2,64)
7	4,53 (2,82)	4,82 (3,00)	4,49 (2,79)	4,77 (2,96)	4,63 (2,88)	4,92 (3,06)	4,56 (2,83)	5,01 (3,11)
8	5,31 (3,30)	5,64 (3,51)	5,26 (3,27)	5,59 (3,47)	5,42 (3,37)	5,76 (3,58)	5,34 (3,32)	5,86 (3,64)
9	4,32 (2,68)	4,59 (2,85)	4,28 (2,66)	4,55 (2,83)	4,41 (2,74)	4,69 (2,91)	4,34 (2,70)	4,77 (2,96)
10	5,05 (3,14)	5,37 (3,34)	5,01 (3,11)	5,32 (3,31)	5,17 (3,21)	5,49 (3,41)	5,08 (3,16)	5,58 (3,47)
11	5,97 (3,71)	6,34 (3,94)	5,91 (3,67)	6,28 (3,90)	6,10 (3,79)	6,48 (4,03)	6,00 (3,73)	6,59 (4,10)
12	6,98 (4,34)	7,42 (4,61)	6,92 (4,30)	7,35 (4,57)	7,14 (4,44)	7,58 (4,71)	7,02 (4,36)	7,71 (4,79)
13	5,84 (3,63)	6,21 (3,86)	5,79 (3,60)	6,15 (3,82)	5,97 (3,71)	6,35 (3,95)	5,88 (3,65)	6,45 (4,01)
14	6,84 (4,25)	7,27 (4,52)	6,78 (4,21)	7,20 (4,47)	6,99 (4,34)	7,43 (4,62)	6,88 (4,28)	7,55 (4,69)
15	8,07 (5,02)	8,58 (5,33)	8,00 (4,97)	8,50 (5,28)	8,25 (5,13)	8,77 (5,45)	8,12 (5,05)	8,92 (5,54)
16	9,45 (5,87)	10,04 (6,24)	9,36 (5,82)	9,95 (6,18)	9,66 (6,00)	10,26 (6,38)	9,50 (5,90)	10,44 (6,49)
17	7,23 (4,49)	7,69 (4,78)	7,17 (4,46)	7,62 (4,74)	7,39 (4,59)	7,86 (4,89)	7,28 (4,52)	7,99 (4,97)
18	8,47 (5,26)	9,00 (5,59)	8,39 (5,21)	8,92 (5,54)	8,65 (5,38)	9,20 (5,72)	8,52 (5,30)	9,36 (5,82)
19	9,99 (6,21)	10,63 (6,61)	9,90 (6,15)	10,53 (6,54)	10,21 (6,35)	10,86 (6,75)	10,06 (6,25)	11,04 (6,86)
20	11,70 (7,27)	12,44 (7,73)	11,59 (7,20)	12,32 (7,66)	11,95 (7,43)	12,71 (7,90)	11,77 (7,32)	12,92 (8,03)
21	12,29 (7,64)	13,07 (8,12)	12,18 (7,57)	12,95 (8,05)	12,56 (7,81)	13,36 (8,30)	12,37 (7,69)	13,58 (8,44)
22	14,39(8,94)	15,29 (9,50)	14,25 (8,86)	15,16 (9,42)	14,70 (9,14)	15,63 (9,71)	14,48 (9,00)	15,90 (9,88)
23	16,98 (10,55)	18,05 (11,22)	16,83 (10,46)	17,89 (11,12)	17,35 (10,78)	18,45 (11,47)	17,09 (10,62)	18,76 (11,66)
24	19,87 (12,35)	21,13 (13,13)	19,69 (12,24)	20,94 (13,01)	20,31 (12,62)	21,60 (13,42)	20,00 (12,43)	21,96 (13,65)
25	16,18 (10,06)	17,20 (10,69)	16,03 (9,96)	17,04 (10,59)	16,53 (10,27)	17,58 (10,93)	16,28 (10,12)	17,88 (11,11)
26	18,93 (11,77)	20,13 (12,51)	18,76 (11,66)	19,95 (12,40)	19,35 (12,03)	20,57 (12,78)	19,06 (11,85)	20,92 (13,00)
27	22,35 (13,89)	23,76 (14,77)	22,15 (13,77)	23,55 (14,64)	22,84 (14,20)	24,29 (15,10)	22,49 (13,98)	24,70 (15,35)
28	26,16 (16,26)	27,81 (17,28)	25,92 (16,11)	27,56 (17,13)	26,73 (16,61)	28,42 (17,66)	26,33 (16,36)	28,90 (17,96)
29	21,89 (13,60)	23,27 (14,46)	21,69 (13,48)	23,06 (14,33)	22,37 (13,90)	23,79 (14,79)	22,03 (13,69)	24,19 (15,03)
30	25,62 (15,92)	27,24 (16,93)	25,39 (15,78)	26,99 (16,77)	26,19 (16,28)	27,84 (17,30)	25,79 (16,03)	28,31 (17,59)
31	30,24 (18,79)	32,15 (19,98)	29,97 (18,63)	31,86 (19,80)	30,91 (19,21)	32,86 (20,42)	30,44 (18,92)	33,42 (20,77)
32	35,40 (22,00)	37,64 (23,39)	35,07 (21,80)	37,29 (23,18)	36,18 (22,49)	38,46 (23,90)	35,63 (22,14)	39,11 (24,31)



6200 SERIES TRACTORS



1A01.8

Introduction

Road speed reverse at 2200 rev/min "Dynashift" and creeper gearbox

Range	REVERSE (Kph / Mph)							
	Mechanical reverse shuttle	Power shuttle	Mechanical reverse shuttle	Power shuttle	Mechanical reverse shuttle	Power shuttle	Mechanical reverse shuttle	Power shuttle
Tyres	16.9R34		16.9R38		18.4R38		20.8R38	
1	0,48 (0,30)	0,51 (0,32)	0,48 (0,30)	0,51 (0,32)	0,49 (0,30)	0,52 (0,32)	0,49 (0,30)	0,53 (0,33)
2	0,57 (0,35)	0,60 (0,37)	0,56 (0,35)	0,59 (0,37)	0,58 (0,36)	0,61 (0,38)	0,57 (0,35)	0,62 (0,39)
3	0,67 (0,42)	0,71 (0,44)	0,66 (0,41)	0,70 (0,44)	0,68 (0,42)	0,72 (0,45)	0,67 (0,42)	0,74 (0,46)
4	0,78 (0,48)	0,83 (0,52)	0,77 (0,48)	0,82 (0,51)	0,80 (0,50)	0,85 (0,53)	0,79 (0,49)	0,86 (0,53)
5	0,82 (0,51)	0,87 (0,54)	0,81 (0,50)	0,86 (0,53)	0,84 (0,52)	0,89 (0,55)	0,83 (0,52)	0,91 (0,57)
6	0,96 (0,60)	1,02 (0,63)	0,95 (0,59)	1,01 (0,63)	0,98 (0,61)	1,04 (0,65)	0,97 (0,60)	1,06 (0,66)
7	1,13 (0,70)	1,20 (0,75)	1,12 (0,70)	1,19 (0,74)	1,16 (0,72)	1,23 (0,76)	1,14 (0,71)	1,25 (0,78)
8	1,33 (0,83)	1,41 (0,88)	1,31 (0,81)	1,40 (0,87)	1,36 (0,85)	1,44 (0,89)	1,33 (0,83)	1,46 (0,91)
9	1,08 (0,67)	1,15 (0,71)	1,07 (0,67)	1,14 (0,71)	1,10 (0,68)	1,17 (0,73)	1,09 (0,68)	1,19 (0,74)
10	1,26 (0,78)	1,34 (0,83)	1,25 (0,78)	1,33 (0,83)	1,29 (0,80)	1,37 (0,85)	1,27 (0,79)	1,40 (0,87)
11	1,49 (0,93)	1,58 (0,98)	1,48 (0,92)	1,57 (0,98)	1,52 (0,94)	1,62 (1,01)	1,50 (0,93)	1,65 (1,03)
12	1,75 (1,09)	1,86 (1,16)	1,73 (1,08)	1,84 (1,14)	1,78 (1,11)	1,90 (1,18)	1,76 (1,09)	1,93 (1,20)
13	1,46 (0,91)	1,55 (0,96)	1,45 (0,90)	1,84 (0,96)	1,49 (0,93)	1,59 (0,99)	1,47 (0,91)	1,61 (1,00)
14	1,71 (1,06)	1,82 (1,13)	1,69 (1,05)	1,80 (1,12)	1,75 (1,09)	1,86 (1,16)	1,72 (1,07)	1,89 (1,17)
15	2,02 (1,26)	2,14 (1,33)	2,00 (1,24)	2,13 (1,32)	2,06 (1,28)	2,19 (1,36)	2,03 (1,26)	2,23 (1,39)
16	2,36 (1,47)	2,51 (1,56)	2,34 (1,45)	2,49 (1,55)	2,41 (1,50)	2,57 (1,60)	2,38 (1,48)	2,61 (1,62)



Introduction

Electrical system

Voltage :	12 volts negative ground.
Batteries:	2 maintenance free batteries.
Alternator :	70/120 Amp. according to model
Safety start :	Operated by the clutch pedal.
Lamps :	European code 40/45 W
Sidelights :	5 W
Direction indicators :	21 W
Number plate light :	10 W
Work lamps :	55 W - H3
Instrument panel lighting and warning lights :	3 W - 2 W - 1,2 W
Rooflight :	10 W

Cooling

Operation :	Centrifugal pump pressurised radiator, regulated by opening temperature : 82° C (179,2° F) controlled by thermostat.
Fan :	Viscostatic model gear driven water pump.
Belt deflection on the longest span	19 mm (4 cylinders) 10 mm (6 cylinders)

Transmission

Gearbox :	- 16 or 32 forward speeds
• Without Dynashift :	- 16 forward speeds. - 16 reverse speeds. - Reverse shuttle synchronised
• With Dynashift gearbox :	- 32 forward speeds - 32 reverse speeds - Four selectable ratios without declutchin - Reverse shuttle synchronised.
• Creeper gearbox 4/1 ratio :	- 8 or 16 creeper
• Clutch :	- Wet clutch with spring loaded 4 disc. - Wet clutch 5 disc.
• Filtration :	1 strainer 150 micron on suction located to the left of the transmission housing. External main high-pressure filter, 15 micron, to the right of the housing.
• Reverse power shuttle 6235 to 6260	Driven by clutch 4 discs in forward, 3 discs in reverse.
• Reverse power shuttle 6260 to 6290	Driven by clutch 5 discs in forward, 4 discs in reverse.
• Filtration :	1 strainer 60 micron.



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6200 SERIES TRACTORS



Introduction

Final reduction units

Reduction units : Epicyclic, in the rear axle housings.
Reduction ratios : 6235/45/55 : (ND) 4.714:1.
6260/65/70 : (HD) 5.077:1.
6280/90 : (SHD) 5;571:1.

Power take-off

Power take-off (IPTO) : Proportional to the engine speed. Hydraulic clutch
P.T.O. ratio : 540 rev/min shaft, 1980 engine rev/min,
1000 rev/min shaft, 2000 engine rev/min,
Speed changing (according to model) : Or by changing shafts :
- 540 rev/min shaft, 35 mm (1"3/8 in) diameter, 6 splines.
- 1000 rev/min shaft, 35 mm (1"3/8 in) diameter, 21 splines.
- 1000 rev/min shaft, 44 mm (1"3/8 in) diameter, 21 splines.
Or by external selection lever on rear L.h.s (according to country).
"Economy" independant power take-off (optional extra) : The normal 540 and 1000 rev/min p.t.o. speeds can be obtained :
- or the above stated engine speeds
- or at 1550 engine rev/min by selecting the "economy" ratio.
Control : Lever in the cab..

Four-wheel drive front axle

Clutch mechanism : Hydraulic, electrically actuated by push button in the cab.
Differential lock : Front and rear differential lock-hydraulic with electrical control.
Reduction ratios : AG85 (18,975), AG105 (20,7), AG125(20,87), AG155 (20,872).

Hydraulics (according to model)

Open center hydraulic system :

Two stage gear pump, driven directly by the engine, supplies.

1st Stage (Flow. 32.7 l/min (5 Imp. gal/min) (5.9 US gal/min) at maximum engine speed, pressure 17 bar (246.5 lbf/in²) ensures :

- Hydrostatic steering
- Differential lock
- High/Low range gear
- I.P.T.O. clutch
- P.T.O. brake
- Front P.T.O. (if fitted)
- Four-wheel drive (if fitted)
- Hydraulic brakes
- Clutch
- Lubrication of gearbox and PTO



Introduction

2nd Stage (Flow: 57 l/min (12.5 Imp. gal/min) (15 US gal/min) at maximum engine speed, pressure :185 bar (2684 lbf/in²) 6290 : 200 bar (2902 lbf/in²) ensures :

- Auxiliary hydraulic system, trailer brake supply, hydraulic lift.

Filtration : External 150-micron throw away, canister type suction strainer.
 External 15 micron High pressure filter.

Closed centre hydraulic system with flow and pressure control (optional)

Primary booster system (Max. flow 164.5 l/mn at 2.200 rpm (36.19 imp.gal - 43.42 US gal) ensures :
 - constant boost pressure of 5 bar from variable displacement pump, lubrication of the gearbox, cooling system, boost pressure of master cylinders.

High-pressure system (Max. flow > 90 or 110 l/mn (19.8 or 24.2 imp.gal - 23.7 or 29 US gal) at 2.200 rpm maxi pressure 200 bar) ensures :

- hydrostatic steering, trailer brake, 17 bar valve, auxiliary spool valve, linkage

Filtration : 1 strainer, 150 micron, on suction, located to the left of the transmission housing.
 External main high-pressure filter, 15 micron, to the right of the housing

Hydraulic lift

Rear

Type : 3-point, Category 2or 3, with fixed, telescopic or quick attach hook type ball ends (according to model)

6235/6245/6255/6260/6265/6270	Rams : Ø 66 - Qty 2 - Lifting force at ball end : 5850 kg (12893 Lb)*
6235/6245/6255/6260/6265/6270	Rams : Ø 73 - Qty 2 - Lifting force at ball end : 6500 kg (14326 Lb)*
6280/6290	Rams : Ø 75 - Qty 2 - Lifting force at ball end : 7100 kg (15648 Lb)*

Front

Type : TE 2200

6235/6245/6255/6265/6270/6280/6290 Lifting force at ball end : 2860 kg (6303 Lb)

* Maximum capacity according to lift rod position and linkage model.



1A01.12

6200 SERIES TRACTORS



Introduction

Brakes

Type :	Oil immersed single disc per wheel, 343 mm (13.50 in), outside diameter. Inside diameter of lining. 6235/6245 : 296 mm (11.65 in) 6255 à 6290 : 290 mm (11.41 in).
Operation :	Hydraulic, from two master-cylinders, automatic adjustment
Handbrake :	Operates on the rear axle bevel gear.
Trailer brake :	According to model by an hydraulic valve.

Differential lock - Rear axle

Type :	Positive clutch
Control :	Hydraulic, with electrical control.

Steering

Type :	Hydrostatic fixed or tiltable telescopic steering column. One double action central ram.
--------	--

Theoretical turning circle	6235/6245		6255/6265		6260	6270/80	6290
Tyres	13.6R24		13.6R28		13.6R28	14.9R28	16.9R28
2 WD 4 WD	• •		• •		•	•	•
Track adjustments Angle	57 ° 55 °	1,75	57 ° 55 °	1,85	1,85 55 °	2,05 55 °	2,17 55 °
Radius tyres outer* Without brake (m)	4,37		4,60		4,94	4,94	4,94

* with front axle disengaged



6200 SERIES TRACTORS



1A01.13

Introduction

Wheels

Front	2-wheel drive pressed steel 4-wheel drive pressed steel
Rear	pressed steel with manual adjustment or cast with power adjust variable track (P.A.V.T.) or manual adjustment.

Tyres

Compatibility of front / rear tyres of 4-wheel drive tractors same make and model

Tyres	Front	Rear	Front	Rear	Front	Rear
	11.2R28	13.6R38 16.9R34 18.4R30	13.6R28	16.9R38 18.4R34	380-70R28 420-70R24 440-65R28	480-70R38 520-70R34 540-65R38
	12.4R24	13.6R38 16.9R30 18.4R30	14.9R24 14.9R28	13.6R38 18.4R34 18.4R38	420-70R28 480-65R28	520-70R38 520-70R38 600-65R38
	13.6R24	13.6R38 16.9R34	16.9R28 380-70R24	20.8R38 480-70R34	480-70R28 540.65R28	580.70R38 650.65R38

Nota : The data in this table is not all inclusive. Ask your dealer for further information on other possible choices.



1A01.14

6200 SERIES TRACTORS



Introduction

Capacities

Fuel tank:	6235/6245	130 l	(28.6 Imp. gal.)	(34.34 Us gal.)
.....	6255/6265/6260/6270/6280/6290	160 l	(35.20 Imp. gal.)	(47.27 Us gal.)
Additional fuel tank:	6235/6245/6255/6265/6260/70/80	67 l	(14.71 Imp. gal.)	(17.9 Us gal.)
.....	6290	65 l	(14.30 Imp. gal.)	(17.17 Us gal.)
Cooling system:	6235/6245/6255/6265	16.6 l	(3.65 Imp. gal.)	(4.38 Us gal.)
.....	6255/6265/6260/6270/6280	25 l	(5.50 Imp. gal.)	(6.60 Us gal.)
.....	6290	28.5 l	(6.30 Imp. gal.)	(7.40 Us gal.)
Engine sump:	6235/6245/6255/6265	7.4 l	(1.62 Imp. gal.)	(1.954 Us gal.)
.....	6260/6270/6280	14.8 l	(3.26 Imp. gal.)	(3.91 Us gal.)
.....	6290	15.6 l	(3.40 Imp. gal.)	(4.00 Us gal.)
Transmission/rear axle:	6255/6265/6260	68.5 l	(15 Imp. gal.)	(18 Us gal.)
.....	6270/6280	71 l	(15.6 Imp. gal.)	(18.75 Us gal.)
.....	6290	70 l	(15.4 Imp. gal.)	(18.5 Us gal.)
Front axle assembly	6235/6245	5.8 l	(1.27 Imp. gal.)	(1.53 Us gal.)
.....	6255/6265/6260	6.8 l	(1.49 Imp. gal.)	(1.79 Us gal.)
.....	6270/6280	7.0 l	(1.53 Imp. gal.)	(2.69 Us gal.)
.....	6290	10.2 l	(2.23 Imp. gal.)	(2.69 Us gal.)
Front final reduction units (each)	6235/6245	0.9 l	(0.20 Imp. gal.)	(0.24 Us gal.)
.....	6255/6265/6260	1.1 l	(0.24 Imp. gal.)	(0.29 Us gal.)
.....	6270/6280	1.5 l	(0.33 Imp. gal.)	(0.40 Us gal.)
.....	6290	1.6 l	(0.35 Imp. gal.)	(0.42 Us gal.)

Tightening torque

Wheel nuts

DISC ON HUB

RIM ON DISC

		P.A.V.T. Wheels	Fixed cast wheel	Steel wheels
Front axle				
2 WD	200 to 260 lbf-ft	-	-	-
4 WD	400 to 450 lbf-ft	-	-	200 to 260 lbf-ft
Rear axle				
Flanged shaft	400 to 450 lbf-ft	180 to 250 lbf-ft	-	-
Straight shaft	350 to 460 lbf-ft	180 to 250 lbf-ft	-	-

Miscellaneous

Power take-off	100 - 130 Nm (74 to 96 lbf-ft)
Axle outer ram	400 - 600 Nm (293 to 440 lbf-ft)
Steering rams	75 - 80 Nm (55 to 59 lbf-ft)
Engine oil drain plug	35 Nm (25 lbf-ft)
Fuel tank drain plug	15 Nm - 18 Nm (11 to 13 lbf-ft)



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Introduction

Dimensions and weights



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Introduction



C . Chassis dimensions and mounting points



6200 SERIES TRACTORS



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Introduction

D. Safety precautions

See Operation Book Instructions, ref. 3378164M1.



1A01.18

6200 SERIES TRACTORS

Introduction





Introduction

E . Practical advice

Safety

Your safety and that of others must always be the first consideration when working around machines of any type.

Safety is a matter of thoroughly understanding the job to be done, the correct use of tools and equipment, and the application of good common sense.

Trouble-shooting

The following procedure, combined with the information contained in the workshop manual will be helpful in tracing faults accurately.

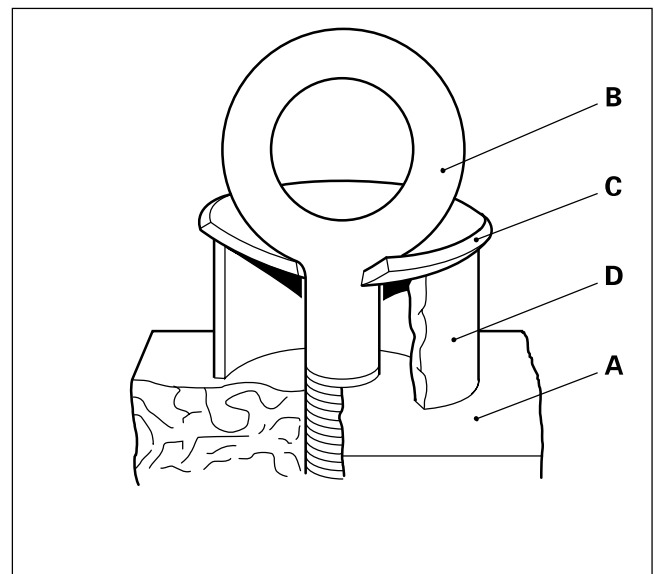
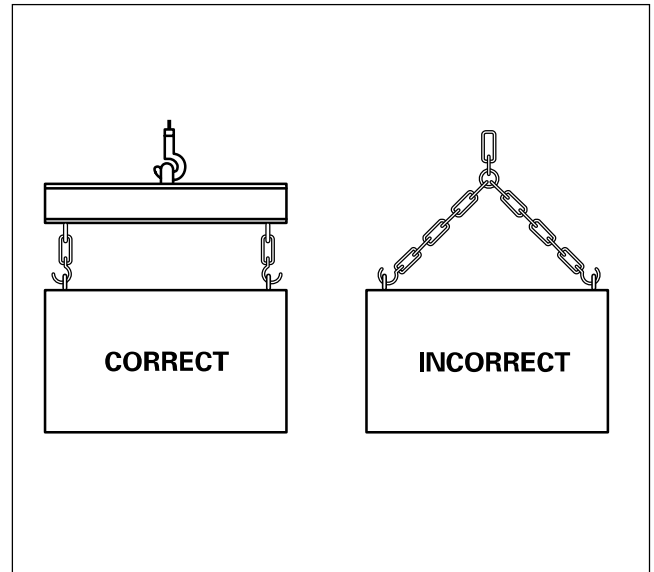
It consists of following a number of logical steps to locate and correct the problem.

1. Determine the problem.
2. List possible causes.
3. Differentiate the causes.
4. Conduct checks in logical order to determine the exact cause.
5. Consider approximate remaining service life against cost of parts and labour.
6. Make any necessary repair.
7. Recheck the parts and functions for correct operation.

Handling of heavy components

Unless otherwise specified, all removals should be accomplished using adjustable lifting equipment. All supporting slings must be parallel to each other and as near vertical as possible in relation to the object being lifted. However, where slings are of a far greater capacity than the weight of the load to be lifted, a triangular lifting arrangement may be used (2, 3 or 4 strands from a single ring beneath the hoist hook). When removing a component at an angle, remember that the capacity of an eyebolt is reduced when the angle between the supporting members and the object becomes less than 90° (correct and incorrect method of lifting).

Eyebolts and brackets must never be bent and must only work under tension. A length of pipe and a washer may be used to reduce tension on eyebolts.



Forged eyebolt support

A Load - B Lifting shackle - C Shackle retaining plate (3 mm thick) - D Sleeve (may or may not be welded to plate)

In some cases, special lifting fixtures are available to obtain correct balance and provide for safe handling. Consult the relevant section of the Workshop Manual.

Warning

If a part resists removal, check that all nuts and bolts have been removed and that there is no interference from adjacent parts.



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Introduction

Cleanliness

To ensure long life of a machine, it is important to keep dirt and foreign material out of its vital working components. Precautions must be taken to safeguard against this. Enclosed compartments, seals and filters have been provided to keep the supply of air, fuel and lubricant clean. These protective devices must not be removed.

Whenever hydraulic fluid, fuel, lubricating oil or air lines are disconnected, clean the point of disconnection and the surrounding area. As soon as a line has been disconnected, cap, plug or tape the line or opening to prevent the ingress of foreign material.

The same cleaning and covering precautions should be taken when access covers or inspection plates are removed.

Clean and inspect all parts. Make sure that all passages and holes are clear. Cover all parts to keep them clean. Make sure parts are clean when they are reassembled. Leave new parts in their wrapping until they are actually needed for reassembly.

Assembly

When reassembling a machine, complete each step in sequence. Never partially assemble one part then start to assemble another. Make all recommended adjustments. Always check the job on completion to ensure that nothing has been overlooked.

Recheck the various adjustments before putting the machine back into service.

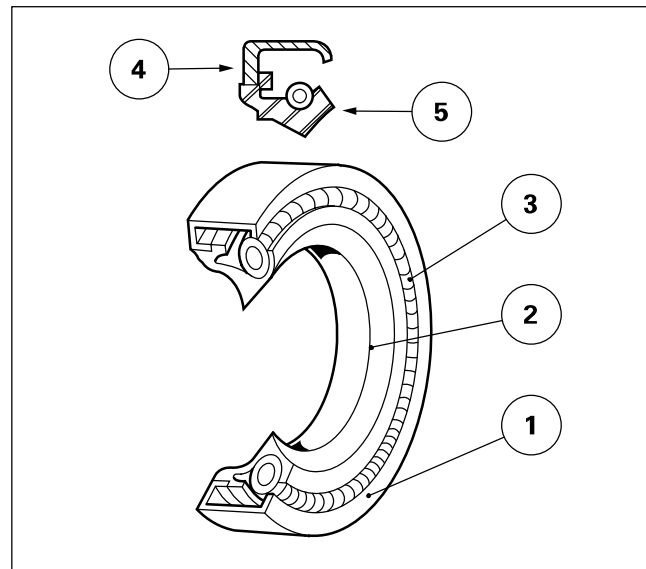
Note : Before fitting new parts, remove rust preventative compound from all machined surfaces (usually «peel-off» substances).

Lubrication

Where applicable, fill the compartments of repaired or renewed components with the quantity, type and grade of clean lubricant recommended in the routine maintenance section of the Operation Instruction Book.

Shims

When shims are removed, tie them together and identify their location. Keep shims clean and take care not to bend them before refitting them.



Gaskets

Make sure that the holes in gaskets line up with lubricating oil passages in the mating parts. If gaskets have to be made, use material of the correct type and thickness. Make sure that holes are punched in the right places.

Incorrectly punched gaskets can cause serious damage.

“SPY” lip type rubber seals.

Lubricate the lips of “SPY” lip type seals with oil before fitment. Do not use grease on seals, except for grease seals. The main parts of a “SPY” lip type seal are the case (1), the sealing element (2) and the ring spring (3). The figure shows the construction of a simple “SPY” lip type seal. The cross section shows the «heel» (4) and the «toe» (5), used to identify the sides of a single element seal. With a few exceptions, the toe of a single-lip seal is located on the lubricant side. Some seals have a second auxiliary lip which has no spring.



Introduction

Cables and wires

When removing or disconnecting a group of cables or wires, each one should be identified and labelled in order to ensure that they are correctly refitted.

Nut and bolt locking devices

The loosening of nuts and bolts is prevented by using lockwashers, tab washers and cotter pins. In addition to these mechanical means, locking agents of the Loctite type are also used.

Flat retainers must be correctly installed in order to be effective. Bend one end of the retainer against the edge of the part. Bend the other end against one of the flats on the nut or bolt head.

Always fit new retainers in compartments which house moving parts. When fitting lockwashers on aluminium housing, place a flat washer between the lockwasher and the housing.

Note:

- 1) Never insert a lock washer (of the Grower, shake-proof toothed or spring type, etc.) under a nut or a bolt head if a specific tightening torque must be applied (see section H).
- 2) When using locking products such as Loctite, always degrease the parts before applying the product.

Lubrication bushes and press fits

Bushes must never be fitted with a hammer alone. Use a suitable fitting tool and a hammer or, better still, a press if possible.

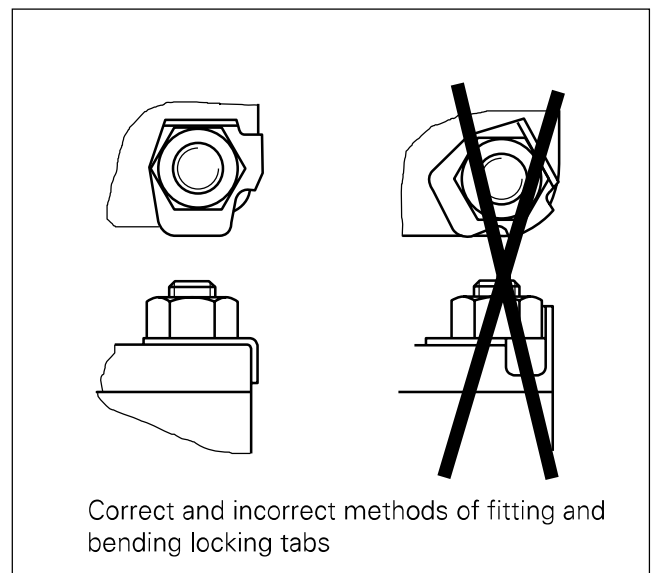
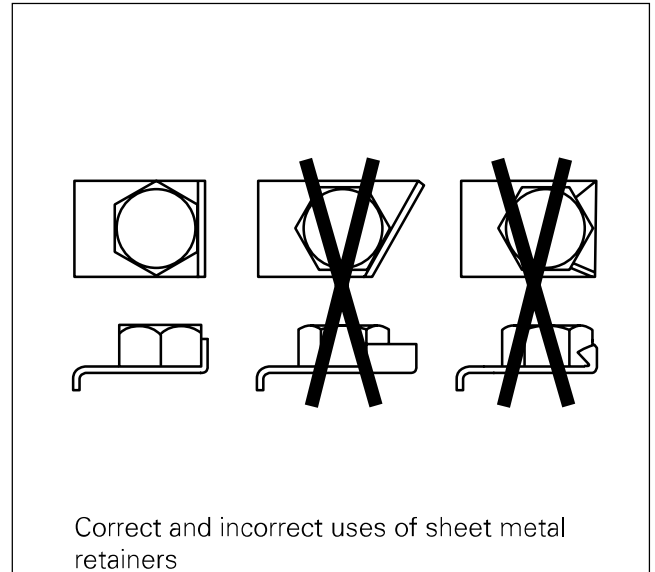
When using a press, ensure that pressure is applied directly in line with the bore. When a lubrication bush has an oil hole, that hole should be aligned with the hole in the mating part.

When press fitting a part into another part, lubricate the mating surfaces. Tapered parts should be assembled dry. Before assembly, check that the tapers are dry, clean and free from burrs.

Fitting bolts in blind holes

Use bolts of the correct length. A bolt which is too long may "bottom" before the head comes into contact with the part it is intended to hold. This will cause damage to the threads.

If a bolt is too short, there may not be enough threads engaged to hold the part securely, and the bolt is therefore ineffective.





1A01.22

6200 SERIES TRACTORS



Introduction

F. Installation instructions

General

In order to ensure regular servicing of the tractor during the 12-month, the supplying AGCO Distributor or Dealer must carry out the 50-hour and 250-hour servicing operations.

The definition of this operation is designed to provide the tractor with maximum efficiency during the whole warranty period, thus ensuring that it gives reliable service after that period.

Pre-delivery check

The performance of the following operations must be ensured by the Distributor before delivery to a Dealer and by the Dealer before delivery to an owner or operator.

1. General installation

- Clean the tops of batteries and smear the terminals with petroleum jelly.
- Charge the batteries, if necessary.
- Check all electrical connections, and cables, ducting and light attachments.
- Check and top up the oil levels in the engine and transmission housings.
- Lubricate all grease points.
- Check and adjust belt tensions, as required (alternator, fan, auxiliary pump and air-conditioning compressor).
- Unless it contains an antifreeze compound, flush the cooling system and refill with soft water.
- Check that the fuel tank contains enough fuel of the correct type.
- Check that the cylinder head attaching nuts and bolts are tightened to the required torque. Check that the inlet pipe and exhaust manifold attaching nuts and bolts are correctly tightened.
- Check and adjust the clearance between the valves and rockers and visually check the valve springs.
- Check the injectors, bleed the fuel system and tighten all fuel line connections.
- Check that the engine air filter hoses are secure.
- Check that the engine control linkages are correctly adjusted and operate freely.
- Start the engine.
- Check that the instruments and warning lights operate correctly.
- Check the engine speed on the tachometer with both the hand and foot-operated throttles.
- Hitch up a mounted implement and check that the tractor's hydraulic accessories operate correctly.
- Check and adjust the tyre pressures (road or field work).

- Check the tightness of all nuts, bolts, studs, pipe unions and attachment fittings.
- Check all pipes and hoses for leaks.
- Check that the headlights are correctly adjusted.
- Road test the tractor, checking the correct operation of the brakes and all instruments and accessories.

2. Electronic systems

- Check that the electronic lifting system operates correctly. Carry out the quick check procedure described in section 11C01.
- Check all the Autotronic functions, following the test procedure in section 11A01 ou 11B01 according to version.
- Check the on-board computer installation in accordance with procedure 11D01.

3. Tightening torques

- Check the tightening torque on the attaching nuts and bolts on the various chassis attachment points:
 - . Front axle/engine,
 - . Engine/gearbox,
 - . Gearbox/rear axle
 - . Trumpet sections/rear axle.
- Check the tightening torque of the attaching nuts and bolts on wheels and wheel bodies.



Introduction

Instructions to driver

Instructions on items listed below must be given to the owner or operator.

1. Safety precautions when starting the engine.
2. Location and significance of tractor and engine serial numbers.
3. Controls and instruments.
4. Running-in.
5. Starting and stopping the engine.
6. Selection of gears and use of gearshift and reverse shuttle levers.
7. Danger of towing down the hill without engine braking and correct use of gearbox.
8. Use and adjustment of brakes and brake pedal latch.
9. Use of the vehicle's clutch.
10. Use of the hydraulic differential lock device.
11. Use of the hydraulic PTO - Clutch and brake.
12. Operation of hydraulic lift system.
13. Hitching and unhitching of towed implements.
14. Grease points.
15. Changing of oil grades.
16. Replacement of engine and transmission filter elements.
17. Operation of fuel system - Bleeding of fuel and injection system - Air filter - Clogging indicator.
18. Cooling system. Frost precautions. Tension of both fan belts.
19. Maintenance of electrical equipment (batteries). System with negative earth.
20. Adjustment of front and rear track.
21. Tyre pressures.
22. Tightness of nuts, bolts and screws.
23. Fuel storage and handling.
24. Use of auxiliary hydraulic equipment.
25. Filling in of tractor and engine serial numbers in the operator instruction book.
26. Reading of the operator instruction book.

G. Conversion tables

Pressure units

1 PSI = 1 lbf/in² = 0.0689 bar

1 bar = 14.512 lbf/in² = 14.512 PSI

Bar	lbf / in ²	Bar	lbf / in ²	Bar	lbf / in ²
0.5	7.256	9.5	137.9	35	508
1	14.51	10	145	40	588
1.5	21.77	11	159.6	45	653
2	29	12	174	50	726
2.5	36.28	13	189	60	871
3	43.54	14	203	70	1029
3.5	50.8	15	218	80	1161
4	58	16	232	90	1306
4.5	65.3	17	247	100	1451
5	72.6	18	261	200	2903
5.5	79.8	19	276	300	4354
6	87.1	20	290	400	5805
6.5	94.3	21	309	500	7257
7	101.6	22	319	600	8708
7.5	108.8	23	334	700	10160
8	116.1	24	348	800	11611
8.5	123.4	25	368	900	13235
9	130.6	30	435	1000	14514

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