845B VHP 865B VHP 885B VHP 865B AWD 885B AWD Motor Graders

Service Manual

Part Number 48050419D

4th Edition English 10/2017





SERVICE MANUAL

845B Direct drive transmission, Tier 3, made in Brazil [HBZN0845VBAF00184 -], 845B Torque converter transmission, Tier 3, made in Brazil [HBZN0845VCAF01093 -], 865B Direct drive transmission, Tier 3, made in Brazil [NBAF15000 -], 865B Torque converter transmission, Tier 3,made in Brazil [NBAF14004 -], 865B AWD Direct drive transmission, All wheel drive (AWD), Tier 3, made in Brazil [HBZN0865TBAF00840 -], 885B Direct drive transmission, Tier 3, made in Brazil [HBZN0885LBAF00098 -], 885B Torque converter transmission, Tier 3, made in Brazil [HBZN0885PCAF00871 -], 885B AWD Direct drive transmission, All wheel drive (AWD), Tier 3, made in Brazil [HBZN0885TBAF00558 -]

Link Product / Engine

Product	Market Product	Engine
845B Transmissão de acionamento	I.	F4HE9687W*J101
direto, Tier 3, produzido no Brasil		
[HBZN0845VBAF00184 -]		
845B Transmissão de acionamento	Latin America	F4HE9687W*J101
direto, Tier 3, produzido no Brasil		
[HBZN0845VBAF00184 -]		
845B Transmissão de acionamento	Asia Pacific	F4HE9687W*J101
direto, Tier 3, produzido no Brasil		
[HBZN0845VBAF00184 -]		
845B Transmissão de acionamento	Middle East Africa	F4HE9687W*J101
direto, Tier 3, produzido no Brasil		
[HBZN0845VBAF00184 -]		
845B Transmissão de acionamento	North America	F4HE9687W*J101
direto, Tier 3, produzido no Brasil		
[HBZN0845VBAF00184 -]		
845B Transmissão do conversor	Australia New Zealand	F4HE9687W*J101
de torque, Tier 3, produzido no		
Brasil [HBZN0845VCAF01093 -]		
845B Transmissão do conversor	North America	F4HE9687W*J101
de torque, Tier 3, produzido no		
Brasil [HBZN0845VCAF01093 -]		
845B Transmissão do conversor	Latin America	F4HE9687W*J101
de torque, Tier 3, produzido no		
Brasil [HBZN0845VCAF01093 -]		
845B Transmissão do conversor	Asia Pacific	F4HE9687W*J101
de torque, Tier 3, produzido no		
Brasil [HBZN0845VCAF01093 -]		
845B Transmissão do conversor	Middle East Africa	F4HE9687W*J101
de torque, Tier 3, produzido no		
Brasil [HBZN0845VCAF01093 -]		
865B Transmissão de acionamento	Latin America	F4HE9687C*J100
direto, Tier 3, produzido no Brasil		
[NBAF15000 -]		
865B Transmissão de acionamento	Australia New Zealand	F4HE9687C*J100
direto, Tier 3, produzido no Brasil		
[NBAF15000 -]		
865B Transmissão de acionamento	Asia Pacific	F4HE9687C*J100
direto, Tier 3, produzido no Brasil		
[NBAF15000 -]		
865B Transmissão de acionamento	Middle East Africa	F4HE9687C*J100
direto, Tier 3, produzido no Brasil		
[NBAF15000 -]		
865B Transmissão de acionamento	North America	F4HE9687C*J100
direto, Tier 3, produzido no Brasil		
[NBAF15000 -]		
865B Transmissão do conversor	Asia Pacific	F4HE9687C*J100
de torque, Tier 3, produzido no		
Brasil [NBAF14004 -]		

Product	Market Product	Engine
865B Transmissão do conversor	North America	F4HE9687C*J100
de torque, Tier 3, produzido no	Trong Trong	111200100100
Brasil [NBAF14004 -]		
865B Transmissão do conversor	Australia New Zealand	F4HE9687C*J100
de torque, Tier 3, produzido no		
Brasil [NBAF14004 -]		
865B Transmissão do conversor	Middle East Africa	F4HE9687C*J100
de torque, Tier 3, produzido no		
Brasil [NBAF14004 -]		
865B Transmissão do conversor	Latin America	F4HE9687C*J100
de torque, Tier 3, produzido no		
Brasil [NBAF14004 -]		
865B AWD Transmissão de	North America	F4HE9687C*J100
acionamento direto, tração		
em todas as rodas (AWD),		
Tier 3, produzido no Brasil		
[HBZN0865TBAF00840 -]		
885B Transmissão de acionamento	Middle East Africa	F4HE9684L*J100
direto, Tier 3, produzido no Brasil		
[HBZN0885LBAF00098 -]		
885B Transmissão de acionamento	Latin America	F4HE9684L*J100
direto, Tier 3, produzido no Brasil		
[HBZN0885LBAF00098 -]		
885B Transmissão de acionamento	North America	F4HE9684L*J100
direto, Tier 3, produzido no Brasil		
[HBZN0885LBAF00098 -]		
885B Transmissão de acionamento	Asia Pacific	F4HE9684L*J100
direto, Tier 3, produzido no Brasil		
[HBZN0885LBAF00098 -]	A (!: N = 7 1	E411500041 * 1400
885B Transmissão de acionamento	Australia New Zealand	F4HE9684L*J100
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[HBZN0885LBAF00098 -]	Avetrelia New Zeeland	E411500071/* 1405
885B Transmissão do conversor	Australia New Zealand	F4HE9687K*J105
de torque, Tier 3, produzido no		
Brasil [HBZN0885PCAF00871 -] 885B Transmissão do conversor	Middle East Africa	F4HE9687K*J105
de torque, Tier 3, produzido no	INITIONIE East Africa	F4HE900/K J105
Brasil [HBZN0885PCAF00871 -]		
885B Transmissão do conversor	Latin America	F4HE9687K*J105
de torque, Tier 3, produzido no		1 7112300713 3103
Brasil [HBZN0885PCAF00871 -]		
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Brasil [HBZN0885PCAF00871 -]		
885B Transmissão do conversor	Asia Pacific	F4HE9687K*J105
de torque, Tier 3, produzido no	, ioia i aoino	
Brasil [HBZN0885PCAF00871 -]		
885B AWD Transmissão de	North America	F4HE9684L*J100
acionamento direto, tração		
em todas as rodas (AWD),		
Tier 3, produzido no Brasil		
[HBZN0885TBAF00558 -]		
<u></u>	I.	

Thanks very much for your reading,

Want to get more information,

Please click here, Then get the complete
manual



NOTE:

If there is no response to click on the link above, please download the PDF document first, and then click on it.

Have any questions please write to me: admin@servicemanualperfect.com

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Safety rules - Batteries

845B	
865B	
885B	

▲ WARNING

Improper operation or service of this machine can result in an accident.

Before working on any component(s) of the electrical circuit, put the starter switch key in the off (shut down) position. When disconnecting batteries, always disconnect the negative (-) cable first. When reconnecting batteries, always connect the negative (-) cable last.

Failure to comply could result in death or serious injury.

W0264A

▲ WARNING

Electrical shock hazard!

Before working on any part of the electrical system, disconnect the battery ground cable. Complete all electrical work before connecting the cable.

Failure to comply could result in death or serious injury.

W0129A

A WARNING

Battery gas can explode!

To prevent an explosion: 1. Always disconnect the negative (-) battery cable first. 2. Always connect the negative (-) battery cable last. 3. Do not short circuit the battery posts with metal objects. 4. Do not weld, grind, or smoke near a battery.

Failure to comply could result in death or serious injury.

W0011A

A WARNING

Explosion hazard!

When jump-starting the machine, connect and disconnect the jumper cables exactly as indicated in this manual. DO NOT connect the jumper cables to the machine battery terminals. Make sure no persons are near the connecting points before starting the engine. Start the engine from the operator's seat.

Failure to comply could result in death or serious injury.

W0342A

A WARNING

Explosive gas!

Batteries emit explosive hydrogen gas and other fumes while charging. Ventilate the charging area. Keep the battery away from sparks, open flames, and other ignition sources. Never charge a frozen battery.

Failure to comply could result in death or serious injury.

W0005A

A WARNING

Hazardous chemicals!

Battery electrolyte contains sulfuric acid. Contact with skin and eyes could result in severe irritation and burns. Always wear splash-proof goggles and protective clothing (gloves and aprons). Wash hands after handling.

Failure to comply could result in death or serious injury.

W0006A

▲ WARNING

Battery gas can explode!

To prevent an explosion: 1. Always disconnect the negative (-) battery cable first. 2. Always connect the negative (-) battery cable last. 3. Do not short circuit the battery posts with metal objects. 4. Do not weld, grind, or smoke near a battery.

Failure to comply could result in death or serious injury.

W0011A

▲ WARNING

Explosion hazard!

If battery electrolyte is frozen, attempting to charge the battery or jump-start the engine can cause the battery to explode. Always keep batteries at full charge to prevent frozen battery electrolyte. Never charge a frozen battery.

Failure to comply could result in death or serious injury.

W0203A

▲ WARNING

Improper operation or service of this machine can result in an accident.

An error connecting auxiliary starting cables or short-circuiting battery terminals can cause an accident. Connect auxiliary starting cables as instructed in this manual.

Failure to comply could result in death or serious injury.

W0263A

A WARNING

Explosion hazard!

Batteries emit explosive gases. Always ventilate when using in an enclosed area or when charging. Keep the battery away from sparks, open flames, and other ignition sources.

Failure to comply could result in death or serious injury.

W0369A

▲ WARNING

Eye injury hazard!

Wear eye protection when jump-starting the machine and when charging the battery.

Failure to comply could result in death or serious injury.

W0382A

A WARNING

Chemical hazard!

Battery acid can cause severe burns. Some batteries have a ventilation tube. If there is battery acid in the tube, this acid can be released when the battery is turned upside down. If you turn the battery upside down, point the ventilation tube away from you and any other people in the area.

Failure to comply could result in death or serious injury.

W1084A

Variable displacement pump - Safety rules

845B	ANZ APAC LA MEA NA
865B AWD Direct drive transmission, All wheel drive (AWD), Tier 3, made	NA
in Brazil [HBZN0865TBAF00840 -]	
865B	ANZ APAC LA MEA NA
885B AWD Direct drive transmission, All wheel drive (AWD), Tier 3, made	NA
in Brazil [HBZN0885TBAF00558 -]	
885B	ANZ APAC LA MEA NA

Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual and on machine safety signs, you will find the signal words DANGER, WARNING, and CAU-TION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

A DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury. The color associated with DANGER is RED.

WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury. The color associated with WARNING is ORANGE.

A CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury. The color associated with CAUTION is YELLOW.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: Notice indicates a situation that, if not avoided, could result in machine damage or property damage. The color associated with Notice is BLUE.

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine damage or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: Note indicates additional information that clarifies steps, procedures, or other information in this manual.

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

Torque - Minimum tightening torques for normal assembly

845B	ANZ APAC LA MEA NA
865B AWD Direct drive transmission, All wheel drive (AWD), Tier 3, made	NA
in Brazil [HBZN0865TBAF00840 -]	
865B	ANZ APAC LA MEA NA
885B AWD Direct drive transmission, All wheel drive (AWD), Tier 3, made	NA
in Brazil [HBZN0885TBAF00558 -]	
885B	ANZ APAC LA MEA NA

METRIC NON-FLANGED HARDWARE

NOM.					LOCKNUT	LOCKNUT
SIZE					CL.8	CL.10
	CLASS 8.8	BOLT and	CLASS 10.9	BOLT and	W/CL8.8	W/CL10.9
	CLASS	8 NUT	CLASS	10 NUT	BOLT	BOLT
	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr		
M4	2.2 N·m (19 lb in)	2.9 N·m (26 lb in)	3.2 N·m (28 lb in)	4.2 N·m (37 lb in)	2 N·m (18 lb in)	2.9 N·m (26 lb in)
M5	4.5 N·m (40 lb in)	5.9 N·m (52 lb in)	6.4 N·m (57 lb in)	8.5 N·m (75 lb in)	4 N·m (36 lb in)	5.8 N·m (51 lb in)
M6	7.5 N·m (66 lb in)	10 N·m (89 lb in)	11 N·m (96 lb in)	15 N·m (128 lb in)	6.8 N·m (60 lb in)	10 N·m (89 lb in)
M8	18 N·m (163 lb in)	25 N·m (217 lb in)	26 N·m (234 lb in)	35 N·m (311 lb in)	17 N·m (151 lb in)	24 N·m (212 lb in)
M10	37 N·m (27 lb ft)	49 N·m (36 lb ft)	52 N·m (38 lb ft)	70 N·m (51 lb ft)	33 N·m (25 lb ft)	48 N·m (35 lb ft)
M12	64 N·m (47 lb ft)	85 N·m (63 lb ft)	91 N·m (67 lb ft)	121 N·m (90 lb ft)	58 N·m (43 lb ft)	83 N·m (61 lb ft)
M16	158 N·m (116 lb ft)	210 N·m (155 lb ft)	225 N·m (166 lb ft)	301 N·m (222 lb ft)	143 N·m (106 lb ft)	205 N·m (151 lb ft)
M20	319 N·m (235 lb ft)	425 N·m (313 lb ft)	440 N·m (325 lb ft)	587 N·m (433 lb ft)	290 N·m (214 lb ft)	400 N·m (295 lb ft)
M24	551 N·m (410 lb ft)	735 N·m (500 lb ft)	762 N·m (560 lb ft)	1016 N·m (750 lb ft)	501 N·m (370 lb ft)	693 N·m (510 lb ft)

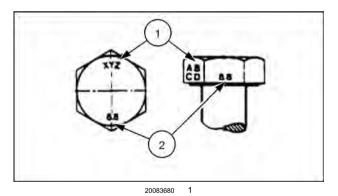
NOTE: M4 through M8 hardware torque specifications are shown in pound-inches. M10 through M24 hardware torque specifications are shown in pound-feet.

METRIC FLANGED HARDWARE

NOM. SIZE	CLASS 8.8 BOLT and CLASS 8 NUT		CLASS 10.9 BOLT and CLASS 10 NUT		LOCKNUT CL.8 W/CL8.8 BOLT	LOCKNUT CL.10 W/CL10.9 BOLT
	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr		
M4	2.4 N·m (21 lb in)	3.2 N·m (28 lb in)	3.5 N·m (31 lb in)	4.6 N·m (41 lb in)	2.2 N·m (19 lb in)	3.1 N·m (27 lb in)
M5	4.9 N·m (43 lb in)	6.5 N·m (58 lb in)	7.0 N·m (62 lb in)	9.4 N·m (83 lb in)	4.4 N·m (39 lb in)	6.4 N·m (57 lb in)
M6	8.3 N·m (73 lb in)	11 N·m (96 lb in)	12 N·m (105 lb in)	16 N·m (141 lb in)	7.5 N·m (66 lb in)	11 N·m (96 lb in)
M8	20 N·m (179 lb in)	27 N·m (240 lb in)	29 N·m (257 lb in)	39 N·m (343 lb in)	18 N·m (163 lb in)	27 N·m (240 lb in)
M10	40 N·m (30 lb ft)	54 N·m (40 lb ft)	57 N·m (42 lb ft)	77 N·m (56 lb ft)	37 N·m (27 lb ft)	53 N·m (39 lb ft)
M12	70 N·m (52 lb ft)	93 N·m (69 lb ft)	100 N·m (74 lb ft)	134 N·m (98 lb ft)	63 N·m (47 lb ft)	91 N·m (67 lb ft)
M16	174 N·m (128 lb ft)	231 N·m (171 lb ft)	248 N·m (183 lb ft)	331 N·m (244 lb ft)	158 N·m (116 lb ft)	226 N·m (167 lb ft)
M20	350 N·m (259 lb ft)	467 N·m (345 lb ft)	484 N·m (357 lb ft)	645 N·m (476 lb ft)	318 N·m (235 lb ft)	440 N·m (325 lb ft)
M24	607 N·m (447 lb ft)	809 N·m (597 lb ft)	838 N·m (618 lb ft)	1118 N·m (824 lb ft)	552 N·m (407 lb ft)	

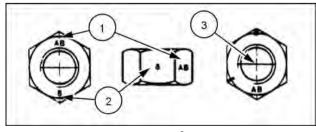
IDENTIFICATION

Metric Hex head and carriage bolts, classes 5.6 and up



- 1. Manufacturer's Identification
- 2. Property Class

Metric Hex nuts and locknuts, classes 05 and up



20083681

- 1. Manufacturer's Identification
- 2. Property Class
- 3. Clock Marking of Property Class and Manufacturer's Identification (Optional), i.e. marks **60°** apart indicate Class 10 properties, and marks **120°** apart indicate Class 8.

INCH NON-FLANGED HARDWARE

NOMINAL SIZE	SAE GRADE 5 BOLT and NUT		SAE GRADE 8 BOLT and NUT		LOCKNUT GrB W/ Gr5 BOLT	LOCKNUT GrC W/ Gr8 BOLT
	UN- PLATED or PLATED SILVER	PLATED W/ZnCr GOLD	UN- PLATED or PLATED SILVER	PLATED W/ZnCr GOLD		
1/4	8 N·m (71 lb in)	11 N·m (97 lb in)	12 N·m (106 lb in)	16 N·m (142 lb in)	8.5 N·m (75 lb in)	12.2 N·m (109 lb in)
5/16	17 N·m (150 lb in)	23 N·m (204 lb in)	24 N·m (212 lb in)	32 N·m (283 lb in)	17.5 N·m (155 lb in)	25 N·m (220 lb in)
3/8	30 N·m (22 lb ft)	40 N·m (30 lb ft)	43 N·m (31 lb ft)	57 N·m (42 lb ft)	31 N·m (23 lb ft)	44 N·m (33 lb ft)
7/16	48 N·m (36 lb ft)	65 N·m (48 lb ft)	68 N·m (50 lb ft)	91 N·m (67 lb ft)	50 N·m (37 lb ft)	71 N·m (53 lb ft)
1/2	74 N·m (54 lb ft)	98 N·m (73 lb ft)	104 N·m (77 lb ft)	139 N·m (103 lb ft)	76 N·m (56 lb ft)	108 N·m (80 lb ft)
9/16	107 N·m (79 lb ft)	142 N·m (105 lb ft)	150 N·m (111 lb ft)	201 N·m (148 lb ft)	111 N·m (82 lb ft)	156 N·m (115 lb ft)
5/8	147 N·m (108 lb ft)	196 N·m (145 lb ft)	208 N·m (153 lb ft)	277 N·m (204 lb ft)	153 N·m (113 lb ft)	215 N·m (159 lb ft)
3/4	261 N·m (193 lb ft)	348 N·m (257 lb ft)	369 N·m (272 lb ft)	491 N·m (362 lb ft)	271 N·m (200 lb ft)	383 N·m (282 lb ft)
7/8	420 N·m (310 lb ft)	561 N·m (413 lb ft)	594 N·m (438 lb ft)	791 N·m (584 lb ft)	437 N·m (323 lb ft)	617 N·m (455 lb ft)
1	630 N·m (465 lb ft)	841 N·m (620 lb ft)	890 N·m (656 lb ft)	1187 N·m (875 lb ft)	654 N·m (483 lb ft)	924 N·m (681 lb ft)

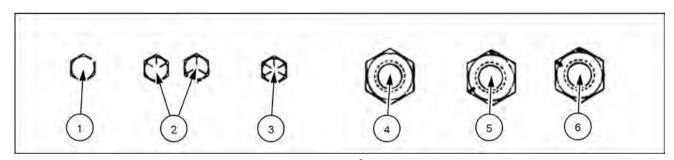
NOTE: For Imperial Units, 1/4 in and 5/16 in hardware torque specifications are shown in pound-inches. 3/8 in through 1 in hardware torque specifications are shown in pound-feet.

INCH FLANGED HARDWARE

NOM- INAL SIZE	SAE GRADE 5 BOLT and NUT		SAE GRADE 8 BOLT and NUT		LOCKNUT GrF W/ Gr5 BOLT	LOCKNUT GrG W/ Gr8 BOLT
	UNPLATED	PLATED	UNPLATED	PLATED		
	or PLATED	W/ZnCr	or PLATED	W/ZnCr		
	SILVER	GOLD	SILVER	GOLD		
1/4	9 N·m (80 lb in)	12 N·m (106 lb in)	13 N·m (115 lb in)	17 N·m (150 lb in)	8 N·m (71 lb in)	12 N·m (106 lb in)
5/16	19 N·m (168 lb in)	25 N·m (221 lb in)	26 N·m (230 lb in)	35 N·m (310 lb in)	17 N·m (150 lb in)	24 N·m (212 lb in)
3/8	33 N·m (25 lb ft)	44 N·m (33 lb ft)	47 N·m (35 lb ft)	63 N·m (46 lb ft)	30 N·m (22 lb ft)	43 N·m (32 lb ft)
7/16	53 N·m (39 lb ft)	71 N·m (52 lb ft)	75 N·m (55 lb ft)	100 N·m (74 lb ft)	48 N·m (35 lb ft)	68 N·m (50 lb ft)
1/2	81 N·m (60 lb ft)	108 N·m (80 lb ft)	115 N·m (85 lb ft)	153 N·m (113 lb ft)	74 N·m (55 lb ft)	104 N·m (77 lb ft)
9/16	117 N·m (86 lb ft)	156 N·m (115 lb ft)	165 N·m (122 lb ft)	221 N·m (163 lb ft)	106 N·m (78 lb ft)	157 N·m (116 lb ft)
5/8	162 N·m (119 lb ft)	216 N·m (159 lb ft)	228 N·m (168 lb ft)	304 N·m (225 lb ft)	147 N·m (108 lb ft)	207 N·m (153 lb ft)
3/4	287 N·m (212 lb ft)	383 N·m (282 lb ft)	405 N·m (299 lb ft)	541 N·m (399 lb ft)	261 N·m (193 lb ft)	369 N·m (272 lb ft)
7/8	462 N·m (341 lb ft)	617 N·m (455 lb ft)	653 N·m (482 lb ft)	871 N·m (642 lb ft)	421 N·m (311 lb ft)	594 N·m (438 lb ft)
1	693 N·m (512 lb ft)	925 N·m (682 lb ft)	979 N·m (722 lb ft)	1305 N·m (963 lb ft)	631 N·m (465 lb ft)	890 N·m (656 lb ft)

IDENTIFICATION

Inch Bolts and free-spinning nuts

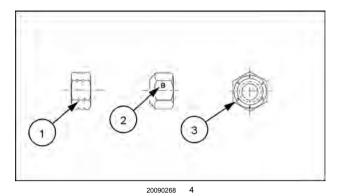


20083682 3

Grade Marking Examples

SAE Grade Identification							
1	Grade 2 - No Marks 4 Grade 2 Nut - No Marks						
2	Grade 5 - Three Marks	5	Grade 5 Nut - Marks 120° Apart				
3	Grade 8 - Five Marks	6	Grade 8 Nut - Marks 60° Apart				

Inch Lock Nuts, All Metal (Three optional methods)



Grade Identification

Grade	Corner Marking Method (1)	Flats Marking Method (2)	Clock Marking Method (3)
Grade A	No Notches	No Mark	No Marks
Grade B	One Circumferential Notch	Letter B	Three Marks
Grade C	Two Circumferential Notches	Letter C	Six Marks

Maintenance chart and Lubrication

ANZ (6 x 3 torque converter) OR (Tier 1) APAC (6 x 3 torque converter) OR (Tier 1) LA (6 x 3 torque converter) OR (Tier 1) MEA (6 x 3 torque converter) OR (Tier 1)
ANZ (6 x 3 torque converter) OR (Tier 2) OR (Tier 0) APAC (6 x 3 torque converter) OR (Tier 2) OR (Tier 0) LA (6 x 3 torque converter) OR (Tier 2) OR (Tier 0) MEA (6 x 3 torque converter) OR (Tier 2) OR (Tier 0)
ANZ (8 x 8 direct drive) OR (Tier 2) OR (Tier 0) APAC (8 x 8 direct drive) OR (Tier 2) OR (Tier 0) LA (8 x 8 direct drive) OR (Tier 2) OR (Tier 0) MEA (8 x 8 direct drive) OR (Tier 2) OR (Tier 0)

	SERVICE POINTS	Α	В	С	D	Е	F
	Air cleaner (Note 1)	1	AR				
As Required (AR)	Hydraulic filter (Note 2)	1	AR				
	Cab Air Filter (if equipped)	1	AR				
	Batteries (See Electrical System)	2					AR
	Engine oil level (including filters)	1	10				
40 1	Radiator (coolant level) (Note 3)	1	10				
10 hours	Transmission Oil Level (warm, engine running)	4	40				
or daily	(Transmission)	1	10				
	Differential Lock Oil Filter (if equipped)	1	10				
50 hours	Fuel Reservoir Filter (wash screen)	1					50
or every	Fuel Water Separator (drain water)	2					50
week	Hydraulic tank (complete system)	1	50				
	Moldboard Lift Cylinder Pivots	4			100		
	Moldboard Lift Cylinders Balls	2			100		
	Moldboard Side Shift Cylinders Balls	2			100		
100 hours	Articulation of Tilt Cylinders	2			100		
or every	Moldboard Tilt Pivots	2			100		
15 days	Articulation Cylinders Pivots	4			100		
	Articulation Bearings	2			100		
	Drawbar Ball and Socket	1			100		
	Alternator and Air Conditioner Belt	2	250				
	Universal Joints and Drive Shaft	2			250		
	Circle Turn Gearbox Oil Level	1	250				
	Differential Lock Oil Filter (if equipped)	1		250			
	Front Axle Articulation Pin	2			250		
	Front Wheel Lean Bar Pivots	2			250		
	Front Wheel Lean Cylinder Pivots	2			250		
250 hours	Front Wheel Knuckle Lean Pivots	4			250		
or every	Knuckle King Pin Bearings	4			250		
1 month	Moldboard Lift Cylinder Articulation Bearings	2			250		
	Tandem Swing Bearing	2			250		
	Tires Condition and Pressure	6	250				
	Cab Air Filter (if equipped)	1					250
	Steering Bar Ball Joints	4			250		
	Moldboard Articulation Pivots	4			250		
	Moldboard Side Shift Terminal Pivots	2			250		
	Engine Oil and Oil Filter	2		250			
	A - Points / B - Check / C - Change / D - Lubricate /	E - Adjust	F – C	lean /	Drain		

	SERVICE POINTS	Α	В	С	D	Е	F
	Fuel Filters and Water Separator	2		500			
	Fuel Tank Drain Plug (drain sediment)	1					500
	Hydraulic System Oil Filter	1		500			
	Transmission Oil Filter (Note 4) (Transmission)	1		500			
500 hours	Transmission Oil Filter (Transmission)	2		500			
or every	Front Wheel Bearing Grease	2		500			
3 months	Tandem Wheel Shafts Bearings (Graziano)	8			500		
	Tandem Case Oil Level	2	500				
	Rear Axle Differential and Planetary Gear Oil Level (Graziano)	1	500				
	ROPS Fixing Bolts Torque	16				500	
	Seat Belts Fixing Bolts Torque	2				500	
	Transmission Screen (Transmission)	1					1000
	Transmission Oil (Note 4) (Transmission)	1		1000			
4000 h a	Transmission Oil (Transmission)	1		1000			
1000 hours	Engine Valves Clearance	12				1000	
or every 6 months	Circle Turn Gear Housing Oil	1		1000			
o montris	Alternator and Air Conditioning Belts	2		1000			
	Air Cleaner Elements (See Air Cleaner System)	2		1000			
	Tandem Case Oil	2		1000			
2000 hours or every year	Rear Axle Differential and Planetary Gear Oil (Graziano)	1		2000			
	Hydraulic System Oil (Note 5)	1		2000			
	Engine Coolant	2		2000			
	Turbocharger Fixing Bolts Torque	4				2000	
	A - Points / B - Check / C - Change / D - Lubricate / E - Ad	ljust /	F - C	lean / I	Drain		

ATTENTION: See Consumables for specifications and detailed capacities about Fluids and Lubricants.

NOTE: (1) – Carry out maintenance on the air filter element if the main warning display (Non-Critical Warnings – YELLOW) shows "AIR FILTER".

NOTE: (2) — Carry out maintenance on the hydraulic filter element if the main warning display (Non-Critical Warnings – YELLOW) shows "HYDRAULIC FILTER".

NOTE: (3) – Check the coolant level in the expansion tank if the main stop display (Critical Warnings – RED) shows "COOLANT LEVEL".

NOTE: (4)- Change the transmission fluid and replace the filter after the first 100 hours of operation.

NOTE: (5)- Change every 2000 hours or once a year, whichever comes first.

Maintenance chart and Lubrication

845B	(8 x 8 direct drive) OR (6 x 3 torque converter) OR (Tier 3-VHP)
865B	(8 x 8 direct drive) OR (6 x 3 torque converter) OR (Tier 3-VHP)
885B	(8 x 8 direct drive) OR (6 x 3 torque converter) OR (Tier 3-VHP)

	SERVICE POINTS	Α	В	С	D	AND	F
	Air cleaner (Note 1)	1	AR				
As Required (AR)	Hydraulic filter (Note 2)	1	AR				
	Cab Air Filter (if equipped)	1	AR				
	Batteries (See Electrical System)	2					AR
	Engine oil level (including filters)	1	10				
40 h a	Radiator (coolant level) (Note 3)	1	10				
10 hours or daily	Transmission Oil Level (warm, engine running) (Transmission 6X3 Torque Converter 8X4 Direct Drive)	1	10				
	Differential Lock Oil Filter (if equipped)	1	10				
50 hours	Fuel Reservoir Filter (wash screen)	1					50
or every	Fuel Water Separator (drain water)	2					50
week	Hydraulic tank (complete system)	1	50				
	Moldboard Lift Cylinder Pivots	4			100		
	Moldboard Lift Cylinders Balls	2			100		
	Moldboard Side Shift Cylinders Balls	2			100		
100 hours	Articulation of Tilt Cylinders	2			100		
or every 15 days	Moldboard Tilt Pivots	2			100		
15 days	Articulation Cylinders Pivots	4			100		
	Articulation Bearings	2			100		
	Drawbar Ball and Socket	1			100		
	Alternator and Air Conditioner Belt	2	250				
	Universal Joints and Drive Shaft	2			250		
	Circle Turn Gearbox Oil Level	1	250				
	Differential Lock Oil Filter (if equipped)	1		250			
	Front Axle Articulation Pin	2			250		
	Front Wheel Lean Bar Pivots	2			250		
050 h a	Front Wheel Lean Cylinder Pivots	2			250		
250 hours	Front Wheel Knuckle Lean Pivots	4			250		
or every 1 month	Knuckle King Pin Bearings	4			250		
1 month	Moldboard Lift Cylinder Articulation Bearings	2			250		
	Tandem Swing Bearing	2			250		
	Tires Condition and Pressure	6	250				
	Cab Air Filter (if equipped)	1					250
	Steering Bar Ball Joints	4			250		
	Moldboard Articulation Pivots	4			250		
	Moldboard Side Shift Terminal Pivots	2			250		
	A – Points / B – Check / C – Change / D – Lubricate / E –	Adjust /	F - C	lean /	Drain	·	

	SERVICE POINTS	Α	В	С	D	AND	F
	Fuel Filters and Water Separator	2		500			
	Fuel Tank Drain Plug (drain sediment)	1					500
	Engine Oil and Oil Filter	2		500			
	Hydraulic System Oil Filter	1		500			
500 hours	Transmission Oil Filter (Note 4) (Transmission 6X3 Torque Converter – Models 845B 6X3 Torque Converter – Models 865B 6X3 Torque Converter – Models 885B)	1		500			
500 hours or every 3 months	Transmission Oil Filter (Transmission 8X4 Direct Drive – Models 845B 8X4 Direct Drive – Models 865B 8X4 Direct Drive – Models 885B)	2		500			
	Front Wheel Bearing Grease	2		500			
	Tandem Wheel Shafts Bearings (Graziano)	8			500		
	Tandem Case Oil Level	2	500				
	Rear Axle Differential and Planetary Gear Oil Level (Graziano)	1	500				
	ROPS Fixing Bolts Torque	16				500	
	Seat Belts Fixing Bolts Torque	2				500	
	Transmission Screen (Transmission 8X4 Direct Drive – Models 845B 8X4 Direct Drive – Models 865B 8X4 Direct Drive – Models 885B)	1					1000
	Transmission Oil (Note 4) (Transmission 6X3 Torque Converter – Models 845B 6X3 Torque Converter – Models 865B 6X3 Torque Converter – Models 885B)	1		1000			
1000 hours or every 6 months	Transmission Oil (Transmission 8X4 Direct Drive – Models 845B 8X4 Direct Drive – Models 865B 8X4 Direct Drive – Models 885B)	1		1000			
	Engine Valves Clearance	12				1000	
	Circle Turn Gear Housing Oil	1		1000			
	Alternator and Air Conditioning Belts	2		1000			
	Air Cleaner Elements (See Air Cleaner System)	2		1000			
	Tandem Case Oil	2		1000			
0000 !	Rear Axle Differential and Planetary Gear Oil (Graziano)	1		2000			
2000 hours	Hydraulic System Oil (Note 5)	1		2000			
or every year	Engine Coolant	2		2000			
	Turbocharger Fixing Bolts Torque	4				2000	
	A - Points / B - Check / C - Change / D - Lubricate / E - Ad	djust /	F – C	lean / l	Drain		

ATTENTION: See Consumables for specifications and detailed capacities about Fluids and Lubricants.

NOTE: (1) – Carry out maintenance on the air filter element if the main warning display (Non-Critical Warnings – YELLOW) shows "AIR FILTER".

NOTE: (2) – Carry out maintenance on the hydraulic filter element if the main warning display (Non-Critical Warnings – YELLOW) shows "HYDRAULIC FILTER".

NOTE: (3) – Check the coolant level in the expansion tank if the main stop display (Critical Warnings – RED) shows "COOLANT LEVEL".

NOTE: (4)- Change the transmission fluid and replace the filter after the first 100 hours of operation.

NOTE: (5)- Change every 2000 hours or once a year, whichever comes first.