845, 865, 865DHP, 885 Grader Tier 2

Service Manual

6-86430

CASE CONSTRUCTION

MidWestTech | Case 845, 865, 865DHP, 885 Tier 2 Grader Service Manual | Publication 6-86430

Order the manual at mid-west-tech.com >

MidWestTech | Case 845, 865, 865DHP, 885 Tier 2 Grader Service Manual | Publication 6-...

LOCTITE PRODUCT CHART

Product	Color	Similar Products	Gap (In Inches)	Strength (Steel/Steel)	Working Temperature Range-Farenheit	Fixture/Full Cure (Steel/Steel) Time	Primer	Description
#3	Dark Brown					24 hr	N/A	Form a Gasket (works with oil, fuel or grease) Pliable
80	Yellow					Fast	N/A	Weatherstrip Adhesive
123	Clear					N/A	N/A	Parts Cleaner Fluid
220	Blue	290	0.003	57/143 in lbs	-65 to +250	6 min/24 hrs	747	Wicking Threadlocker
221	Purple	222	0.005	75/44 in lbs	-65 to +300	2 min/24 hrs	747	Low Strength Threadlocker
222	Purple		0.005	53/30 in lbs	-65 to +300	20 min/24 hrs	764	Low Strength Threadlocker (Small Screws)
225	Brown	222	0.010	45/25 in lbs	-65 to +300	7 min/24 hrs	747	Low Strength Threadlocker
242	Blue		0.005	80/50 in lbs	-65 to +300	10 min/24 hrs	764	Medium Strength Threadlocker
262	Red	271	0.005	160/190 in lbs	-65 to +300	5 min/24 hrs	747	High Strength Threadlocker
270	Green	271	0.007	160/320 in lbs	-65 to +300	3 min/24 hrs	747	High Strength Threadlocker
271	Red	262	0.007	160/320 in lbs	-65 to +300	10 min/24 hrs	764	High Strength Threadlocker
272	Red	620	0.007	180/220 in lbs	-65 to +450	30 min/24 hrs	764	High Temperature, High Strength
275	Green	277	0.010	210/300 in lbs	-65 to +300	3 min/24 hrs	747	High Strength Threadlocker
277	Red		0.010	225/300 in lbs	-65 to +300	60 min/24 hrs	764	High Strength Threadlocker
290	Green		0.003	85/350 in lbs	-65 to +300	6 min/24 hrs	764	Wicking Threadlocker
*404	Clear	495	0.006	3200 psi	-65 to +180	30 sec/24 hrs	NA	Instant Adhesive
*406	Clear		0.004	3200 psi	-65 to +180	15 sec/24 hrs	N/A	Surface Insensitive Adhesive
*409	Clear	454	0.008	2500 psi	-65 to +180	50 sec/24 hrs	N/A	Gel Instant Adhesive
*414	Clear		0.006	2500 psi	-65 to +180	30 sec/24 hr	N/A	Instant Adhesive
*415	Clear	454	0.010	2500 psi	-65 to +180	50 sec/24 hrs	N/A	Gap Filling Instant Adhesive (Metals)
*416	Clear	454	0.010	2500 psi	-65 to +180	50 sec/24 hrs	N/A	Gap Filling Instant Adhesive (Plastics)
*420	Clear		0.002	2500 psi	-65 to +180	15 sec/24 hrs	N/A	Wicking Instant Adhesive
*422	Clear	454	0.020	2800 psi	-65 to +180	60 sec/24 hrs	N/A	Gap Filling Instant Adhesive
*430	Clear		0.005	2500 psi	-65 to +180	20 sec/24 hrs	N/A	Metal Bonding Adhesive
*445	White/Black		0.250	2000 psi	-65 to +180	5 min/24 hrs	N/A	Fast Setting 2 Part Epoxy
*454	Clear		0.010	3200 psi	-65 to +180	15 sec/24 hrs	N/A	Surface Insensitive Gen Instant Adhesive
*495	Clear		0.004	2500 psi	-65 to +180	20 sec/24 hrs	N/A	General Purpose Instant Adhesive
*496	Clear		0.005	2500 psi	-65 to +180	20 sec/24 hrs	N/A	Metal Bonding Adhesive
504	Brt Orange	515	0.030	750 psi	-65 to +300	90 min/24 hrs	None	Rigid Gasket Eliminator
509	Light Blue		0.020	750 psi	-65 to +320	6 hr/72 hrs	764	Flange Sealant
510	Red		0.020	1000 psi	-65 to +400	30 min/24 hrs	764	High Temperature, GAsket Eliminator
515	Purple		0.010	750 psi	-65 to +300	1 hr/24 hrs	764	Gasket Eliminator 515

Rac 8-98902 * Products 404-496 (except for #445) are all instant adhesives (super glues) they differ mostly in viscosity Printed_in_Brazil

Order the manual at mid-west-tech.com >

MidWestTech | Case 845, 865, 865DHP, 885 Tier 2 Grader Service Manual | Publication 6-...

LOCTITE PRODUCT CHART

Product	Color	Similar Products	Gap (In Inches)	Strength (Steel/Steel)	Working Temperature Range-Farenheit	Fixture/Full Cure (Steel/Steel) Time	Primer	Description
518	Red	515	0.030	500psi	-65 to +300	1hr/24 hrs	764	Gasket Eliminator 518 for Aluminum
542	Brown	569	N/A	132/92 in lbs	-65 to +300	2 hr/24 hrs	747	Hydraulic Sealant
545	Purple		N/A	25/20 in lbs	-65 to +300	4 hr/24 hrs	747	Low Strength Pneumatic/Hydraulic Sealant
549	Orange	504	0.020	2500 psi	-65 to +300	2 hr/24 hrs	747	Instant Seal Plastic Gasket
554	Red	277	0.015	240/240 in lbs	-65 to +300	2 to 4 hrs/24 hrs	764	Refrigerant Sealant
567	White	592	N/A	500 psi	-65 to +400	4 hrs/24 hrs	764	Pipe Sealant for Stainless Steel
568	Orange	277	0.015	2500 psi	-65 to +300	12 hrs/24 hrs	764	Plastic Gasket
569	Brown	545	0.010	40/25 in lbs	-65 to +300	1 hr/24 hrs	764	Hydraulic Sealant
570	Brown	592	N/A	25/40 in lbs	-65 to +300	6 hrs/72 hrs	764	Steam Sealant
571	Brown	592	0.015	40/20 in lbs	-65 to +300	2 to 4 hrs/24 hrs	764	Pipe Sealant
572	White	578.575	N/A	80/27 in lbs	-65 to +300	24 hrs/72 hrs	None	Gasketing
592	White		0.020	500 psi	-65 to +400	4 hrs/72 hrs	736	Pipe Sealant with Teflon
593	Black		0.250	400 psi	-95 to +400	30 min/24 hrs	N/A	RTV Silicone
601	Green	609	0.005	3000 psi	-65 to +300	10 min/24 hrs	764	Current PIN #609
609	Green		0.005	3000 psi	-65 to +300	10 min/24 hrs	764	General Purpose Retaining Compound
620	Green	640	0.015	3000 psi	-65 to +450	30 min/24 hrs	747	High Temperature Retaining Compound
635	Green	680	0.010	4000 psi	-65 to +300	1 hr/24 hrs	747	High Strength Retaining Compound
638	Green	680	0.015	4100 psi	-65 to +300	10 min/24 hrs	747	High Strength Retaining Compound
640	Green	620	0.007	3000 psi	-65 to +400	1 hr/24 hrs	747	High Temperature Retaining Compound
660	Silver		0.020	3000 psi	-65 to +300	20 min/24 hrs	764	Quick Metal
675	Green	609	0.005	3000 psi	-65 to +300	20 min/24 hrs	747	General Purpose Retaining Compound
680	Green	635	0.015	4000 psi	-65 to +300	10 min/24 hrs	747	High Strength Retaining Compound
706	Clear	755	N/A	N/A	N/A	N/A	N/A	Cleaning Solvent
707	Amber		N/A	N/A	N/A	N/A	N/A	Activaltor for Structural Adhesives
736	Amber		N/A	N/A	N/A	N/A	N/A	Primer NF
738	Amber		N/A	N/A	N/A	N/A	N/A	Depend Activator
747	Yellow	N/A	N/A	N/A	N/A	N/A	N/A	Primer T
751	Clear		N/A	N/A	N/A	N/A	N/A	Activator for Structural Adhesives
755	Clear		N/A	N/A	N/A	N/A	N/A	Cleaning Solvent
764	Green		N/A	N/A	N/A	N/A	N/A	Primer N
767	Silver		N/A	N/A	-65 to +1600	N/A	N/A	Anti-Seize Lubricant

Printed in Brazil

Order the manual at mid-west-tech.com >

SETTING OF MIN. AND MAX. ACCUMULATOR RECHARGE PRESSURE

Connect two pressure gauges **M1** and **M2** (200 bar 2900 PSI capacity) to the quick release pressure pick-up points **(7** and **8,** fig. **),** located left side of the machine.
Start the engine and operate the hydraulic levers to warm-up the oil to 40°÷ 50°C (105°÷ 120° F)
Parking brake ON.

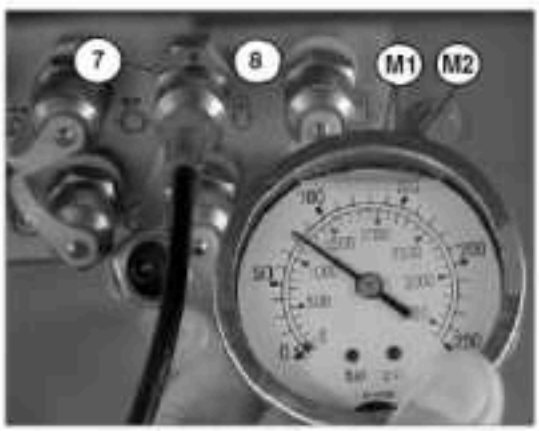
Minimum recharge value

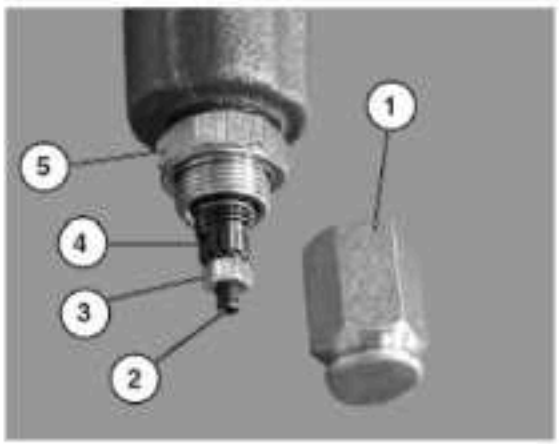
With engine idling and machine standing still, apply brake 8 to 10 times slowly. Read on gauges **M1** and **M2** the values of minimum on pressure, prior to the start of the recharge cycle
The pressure gauges must read momentary 81÷87bar (1175 ÷ 1262 PSI).

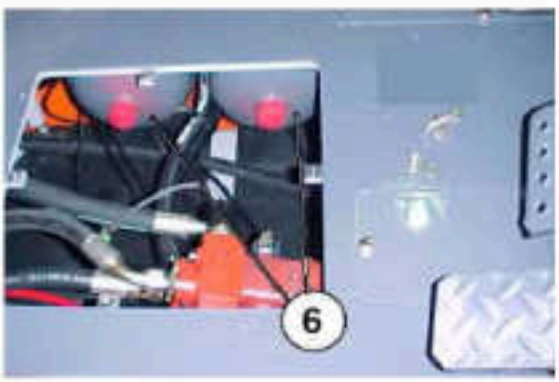
If the minimum recharge pressure is different from the nominal value, remove cap (1), loosen nut (5) and adjust screw (4) slowly, until the correct value is obtained.
Check the pressure again before tightening locknut (3).

Recharge maximum value

With engine at low idle read the maximum charging pressure on pressure gauges **M1** and **M2**.
This pressure must be 120 ÷ 126bar (1740 ÷ 1827 PSI).
If the maximum recharge pressure is different from the nominal value, remove plug (1), loosen locknut (3) and adjust screw (2), until this value is obtained.









M1 and M2 Pressure gauges – **1.** Cap – **2.** Max. Pressure setting screw – **3.** Locknut – **4.** Min. pressure setting screw – **5.** Nut – **6.** Accumulators – **7.** And **8.** Pressure pick-up points thd M16 x 2.

MidWestTech | Case 845, 865, 865DHP, 885 Tier 2 Grader Service Manual | Publication 6-... Order the manual at mid-west-tech.com >

DISASSEMBLY OF THE TANDEM AND REAR AXLE REMOVAL AND INSTALLATION

- Install the grader frame lock pins into their frame locations if working on an articulated grader.

- Park the grader on a level surface.

- Place the transmission in neutral and apply the handbrake. Ensure the handbrake is correctly adjusted and in good working order.

- Lower the moldboard and all attachments to the ground. Do not apply down-pressure.

- Shut down the engine.

- Install the service pin in the LOCKED position (see the Operators Manual).

- Install chocks at the front and rear tandem wheels. Wedge the chocks in place.

WARNING

Scissors points in area of service. Stay clear during operation. Block securely for service.

WARNING

Lift and handle all heavy parts with a lifting device of proper slings and hooks. Use lifting eyes if provided. Watch out for people in the vicinity.

- Support the grader with approved supports.

WARNING

When supporting machine component must be removed or installed and jacks are used, be sure the support of the jack at the machine and on the ground are appropriate to the load to be applied. Transfer the load to authorized blocking or jack stands immediately. Do not work on or under the machine or its components while supported only on a jack or other lifting device, according to local or national requirements.

DISASSEMBLY OF THE TANDEM

TANDEM TEARDOWN



- Overall view of tractor. Tag machine to note that machine is being serviced.

- Lift grader by extending the blade to the side being worked upon. Apply blade down pressure on the side to be lifted.

WARNING

Observe all start up and shut down procedure and WARNINGS listed in the operation and maintenance instruction manual.
Keep people clear of attachments and tools while in raised position, to prevent possible injury.

Remove the tires



MidWestTech | Case 845, 865, 865DHP, 885 Tier 2 Grader Service Manual | Publication 6-... Order the manual at mid-west-tech.com >