7400 tennant manual

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Book Descriptions:

7400 tennant manual

Please try again later. Or, for some documents, you can purchase a professionally printed copy by selecting the Add to cart link on the right, then selecting checkout. The prices will be available upon checkout. Elect rical Batt ery maint enance and replac ement, inst rument panel r eplacement, and elect rical tr oubleshooting. Manual Number MM 428 Revision 04 Published 3 02 CALIFORNIA PROPOSIT ION 65 W ARNING Engi ne exhaust fr om thi s product conta ins chem ical s known to the Sta te of Cal iforni a to cause canc er, birth defec ts, or other repr oductive ha rm. Copyright E 1996, 1998, 2001, 2002 TE NNANT, Print ed in U.S. A. FOR SAFE TY T o identify a ct ions which mus t be followed for sa fe ope ra tion of equipm ent. The m achine is suit ed to sweep dis posable debris. Do not use t he machine other than descr ibed in this O perator Manual. The m achine is not designed for use on public roads. D o not wea r loos e jacket s, shirt s, or sleeves. Bl ock mach in e tires b efore j ackin g machi ne u p. Jack mach in e up at d esig nated loca tions only. Block m ac hine up with jack st ands. Use h oi st or j ack of adeq uat e capacit y to lift ma chine. Wear eye an d ear pr otecti on w hen usi ng pressu riz ed air o r wat er. D isc onnec t batte ry c onnec tions be fore work ing on ma chine. A voi d con tact wi th bat tery acid. A v oid conta ct with hot e ngine coola nt. A llow engine to cool. Keep fl ames and sparks aw ay fro m fu el system service area. Keep area well v entila te d. U se c ar dboar d to locate l eaking hydr aulic fluid under pr essure. U se T ennant supplie d or approv ed repl acement p arts. W ARNING En gi ne emit s toxi c gases. Severe resp irato ry damag e or asph yxiati on can resu lt. Provi de ade quate v ent ilation. Cons ult with your re gulator y aut horitie s for e xpos ure limits. Kee p engine prope rly t uned. W ARNING Fl ammabl e material s can cause an expl osi on o r fi re.http://agendatourvietnam.com/hinhanh/elks-lodge-ritual-manual.xml

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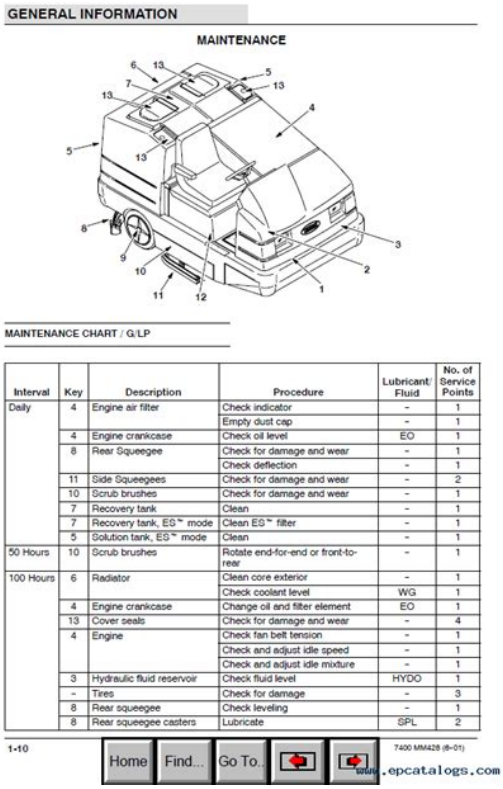


GENERAL INFORMATION

MAINTENANCE

MAINTENANCE CHART / G/LP

Interval	Key	Description	Procedure	Lubricant/ Fluid	No. of Service Points
Daily	4	Engine air filter	Check indicator	-	1
			Empty dust cap	-	1
	4	Engine crankcase	Check oil level	EO	1
	8	Rear Squeegee	Check for damage and wear	-	1
			Check deflection	-	1
	11	Side Squeegees	Check for damage and wear	-	2
	10	Scrub brushes	Check for damage and wear	-	1
	7	Recovery tank	Clean	-	1
	7	Recovery tank, ES™ mode	Clean ES™ filter	-	1
	5	Solution tank, ES™ mode	Clean	-	1
50 Hours	10	Scrub brushes	Rotate end-for-end or front-to-rear	-	1
100 Hours	6	Radiator	Clean core exterior	-	1
			Check coolant level	WG	1
	4	Engine crankcase	Change oil and filter element	EO	1
	13	Cover seals	Check for damage and wear	-	4
	4	Engine	Check fan belt tension	-	1
			Check and adjust idle speed	-	1
			Check and adjust idle mixture	-	1
	3	Hydraulic fluid reservoir	Check fluid level	HYDO	1
	-	Tires	Check for damage	-	3
	8	Rear squeegee	Check leveling	-	1
	8	Rear squeegee casters	Lubricate	SPL	2

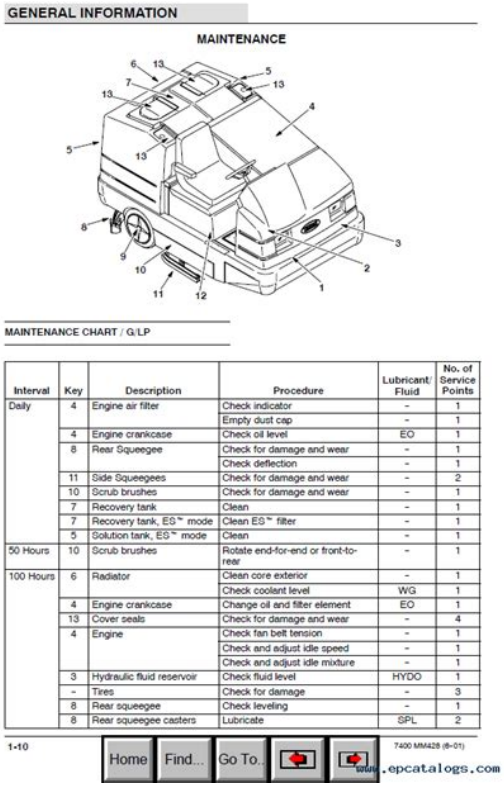
Do no t use flamma ble materials in tanks. W ARNING Fl ammabl e material s or reacti ve metals can cause exp lo sio n o r fire. Do not pick up. W ARNING Movi ng b elt and fan. Keep away. W ARNING Stron g V acuu m. Keep A way From Fa n Inlet Whe n Fan Is Running. I f thes e or any labels becom e damaged or illegible, ins tall a new label in its place.Clean P CV 1 p hoses, t ubes, and fitt ings Fuel f ilter, gas oline 1 800 Hours 3 Hydraulic r eservoir Replace filler cap 1 y Replace suc tion st rainer 1 Change hydraulic fluid HYDO 1 4 Hydraulic fluid f ilter Change filt er element 1 Hydraulic hoses Check for wear and damage All 6 Coo ling system Flu sh WG 1 1 Propelling m otor H T or que shaft nut 1 1 Fr ont wheel H T orque wheel nut s 1 12 Batte ry H Clean and tighten bat tery cable 1 y g y connect ions NOT E Als o check proc edures indict ed H after the firs t 50hours of operat ion. NOT E Mor e frequent int ervals may be required in extr emely dusty c onditions. HYDO T ennant or approved hy draulic f luid. SPL S pecial lubricant, Lubriplat e EMB grease TE NNANT part no. 01433 1. DW Dist illed water. NOT E Mor e frequent int ervals may be required in extr emely dusty c onditions. HYDO T ennant Company or appr oved hydraulic f luid. SPL S pecial lubricant, Lubriplat e EMB grease TE NNANT part no. 01433 1. DW Dist illed water. The pr opelling pump has a bypass valve t o preve nt damage to the hyd rauli c system when the machine is being pushed or t owed. A TTENTION! D o not push or tow ma chine for a long dist anc e and without usi ng th e byp ass valve, or t he machi ne hyd raul ic system may b e damag ed. The illustr at ion shows the bypa ss v alv e in the pushing or towing posit ion. If the loading s urfac e is horizont al AND is 380 mm 15 in or less f rom the ground, t he machine m ay be driven ont o the t ruck or trailer.

3.http://cjsayles.com/~cjsayles/images/elks-soccer-shoot-manual.xml

T o winch t he machine ont o the t ruck or trailer, att ach the winc hing chains in t he holes at the bot tom of t he rear bumper. See PUSH ING OR TOWI NG T HE MACHINE section of this manual. Make s ure the mac hine is cent ered. FO R SAFET Y Wh en load in g machi ne onto truc k or tra iler, use winc h. Do not driv e the ma chine ont o the truc k or tra iler unle ss t he loading sur fac e is horizont al AN D is 38 0 mm 1 5 in or les s from t he ground. If t he machine star ts to veer off the c enterline of the t ruck or t railer, st op and turn t he steer ing wheel to cent er the m achine. 6. Set the par king brake and bloc k the m achine tir es. Tie down the machine t o the t ruck or tr ailer before t ranspor ting. The f ront t ie down locat ions are in t he holes at the bott om of the front bumper. If the machine has the opt ional tie down brac kets, use them t o tie down the m achine. The r ear tie down locat ions are in t he holes at the bott om of the rear bumper. If t he machine has the opt ional rear t ie down brack ets, use t hem to t ie down the m achine. 7. If t he loading surf ace is not hor izontal or is higher t han 380 mm 15 in fr om the ground, use a winch t o unload machine. If the loading s urfac e is horizont al AND is 380 mm 15 in or less f rom the ground, t he machine m ay be driven off t he tr uck or trailer. FOR SA FETY When unloa ding ma chine off truc k or tr aile r, use winch. Do not driv e the ma chine of f the truc k or tr aile r unles s the loading sur fa ce is hor izonta l AND 380 mm 15 i n o r less fro m th e ground. Y ou can jac k up the m achine for serv ice at t he designated loc ations. Use a hoist or jack that will support t he weight of the machine. Always st op the mac hine on a flat, level surf ace and block t he tir es befor e jacking t he machine up. FO R SAFE TY Befo re leavin g o r servici ng mach in e; stop o n level surf ace, set parkin g brake, tu r n o ff machi ne an d remo ve key.

The f ront jac king locat ion is the lef t f ront c o r ner of the m achine fram e. The r ear jacking locat ions are t he two r ear co r ners of the machine frame. FO R SAFET Y Wh en servicin g machi ne, bl ock mach in e tires b efore j ackin g machi ne u p. FO R SAFET Y Wh en servicin g machi ne, jack mach in e up at d esig nated lo cati on s on ly. Blo ck machi ne u p w ith jack stan ds. Decr ease the s pecified t orque by 20% when using a t hread lubricant. Do not subst itut e lower grade hardwar e for higher grade hardware. Exc eptions t o the above c hart Check t he machine f or except ions. BOL T IDENTIFIC A TION Id enti fi catio n Grad e Markin g Sp ecifi catio n and Gra de SAE Grade 5 SAE Grade 8 ISO G rade 8. 8 ISO G rade 10. 9 01395 THREAD S EALANT AND L OCKING COMP OUNDS Thr ead sealants and loc king compounds may be used on this machine. T hey include t he following Lockt ite 515 sealant gasket f orming mater ial. TENNA NT Part No. 75567, 15 oz 440 ml c artridge. Lockt ite 242 blue medium st rength t hread locking compound. T ENNANT P art No. 32676, 0. 5 ml tube. Lockt ite 271 red high st rength t hread locking compound. T ENNANT P art No. 19857, 0. 5 ml tube. TO REMOVE SEA T ASSEMBL Y FO R SAFE TY Befo re Leavin g O r Servici ng M achi ne; Sto p On L evel Surf ace, Set Parkin g Brake, T u rn Off Mach ine An d Remo ve Key. 1. T ilt t he seat assem bly for ward and engage t h ep r o pr o d. 2. Remove t he four hex sc rews and nut s holding the seat ass embly hinge t o the seat support. 3. Slide t he prop rod t o the opening in

the s lot and re move. 4. Remove t he seat assem bly fr om the machine. TO REPLACE SEA T ASSEMBL Y FO R SAFE TY Befo re Leavin g O r Servici ng M achi ne; Sto p On L evel Surf ace, Set Parkin g Brake, T u rn Off Mach ine An d Remo ve Key. 1. Posit ion the s eat assem bly on the s eat support. 2. Reinst all the f our hex sc rews and nuts. T ighten t o 18 24Nm 15 20 ft lb. 3.


GENERAL INFORMATION

MAINTENANCE

MAINTENANCE CHART / G/LP

Interval	Key	Description	Procedure	Lubricant/ Fluid	No. of Service Points
Daily	4	Engine air filter	Check indicator	-	1
			Empty dust cap	-	1
	4	Engine crankcase	Check oil level	EO	1
	8	Rear Squeegee	Check for damage and wear	-	1
			Check deflection	-	1
	11	Side Squeegees	Check for damage and wear	-	2
	10	Scrub brushes	Check for damage and wear	-	1
	7	Recovery tank	Clean	-	1
	7	Recovery tank, ES™ mode	Clean ES™ filter	-	1
	5	Solution tank, ES™ mode	Clean	-	1
50 Hours	10	Scrub brushes	Rotate end-for-end or front-to-rear	-	1
100 Hours	6	Radiator	Clean core exterior	-	1
			Check coolant level	WG	1
	4	Engine crankcase	Change oil and filter element	EO	1
	13	Cover seals	Check for damage and wear	-	4
	4	Engine	Check fan belt tension	-	1
			Check and adjust idle speed	-	1
			Check and adjust idle mixture	-	1
	3	Hydraulic fluid reservoir	Check fluid level	HYDO	1
	-	Tires	Check for damage	-	3
	8	Rear squeegee	Check leveling	-	1
	8	Rear squeegee casters	Lubricate	SPL	2

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Slide t he seat pr op rod through lar ge hole in slot. 4. Lower t he seat. Adj ust P ull the lever out, slide t he seat backwar d or forwar d to t he desired posit ion and release t he lever. Lift Pull up on t he seat mount ing plate until the seat mount loc ks up. Lower Pull on t he release lever and lower the seat m ounting plat e. ST A T IC DRAG CHAIN A st atic dr ag chain prevent s t he buildup of st atic electr icity in the m achine. T he chain is at tached t o the m achine with a hex s crew by t he scr ub head tor que tube mount bearing. Make s ure the chain is touc hing the f loor at all time s. The br akes are oper ated by t he foot brake pedal. Check t he brake adjust ment every 200 hours of operat ion. TO REPL ACE BRAKE SHOE S FO R SAFE TY Befo re Leavin g O r Servici ng M achi ne; Sto p On L evel Surf ace, Set Parkin g Brake, T u rn Off Mach ine An d Remo ve Key. 1. Drain t he solution and r ecovery tank s. 2. Make s ure the par king brake is not engaged. 3. Remove f loor plat e from the oper ators compar tment. 4. Loosen t he jam nuts on the br ake cable t urn buckle. Rot ate the t urn buck le to loosen t he tension on t he brake c able. 5. Jack up one rear c orner of the m achine. Place jack s tands under machine. FO R SAFE TY Bl ock mach in e tires bef ore jacki ng mach ine u p. Jack machi ne up at desi gn ated l ocati on s on ly. Blo ck machi ne u p w ith jack stan ds. 6. Remove t he hub cap f rom t he center of t he tir e and wheel assembly. 7. Re mo ve the co tter p in, slotte d nu t, flat washer, and bear ing cone. 8. Remove t he tir e and wheel assembly f rom the m achine. 9. Remove t he two s prings holding the br ake shoes t ogether. R emove the old br ake shoes. 10. Posit ion the new brak e shoes on t he brake mount ing plate. 1 1. Reattach t he two br ake springs to t he new brake s hoes. T he tir e should spin f reely. 18. Reinstall the hub c ap in the cent er of t he wheel. 19. Lower t he machine. NOT E A lways replac e brake shoes in s ets.

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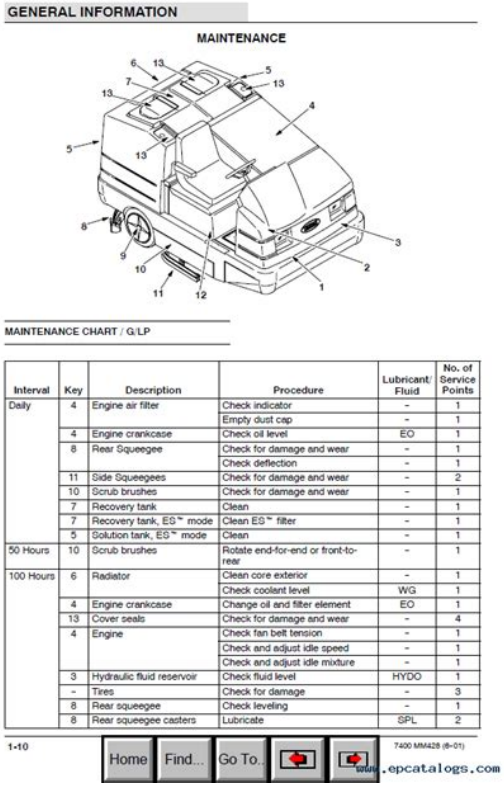

GENERAL INFORMATION

MAINTENANCE

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Interval	Key	Description	Procedure	Lubricant/ Fluid	No. of Service Points
Daily	4	Engine air filter	Check indicator	-	1
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	4	Engine crankcase	Check oil level	EO	1
	8	Rear Squeegee	Check for damage and wear	-	1
			Check deflection	-	1
	11	Side Squeegees	Check for damage and wear	-	2
	10	Scrub brushes	Check for damage and wear	-	1
	7	Recovery tank	Clean	-	1
	7	Recovery tank, ES™ mode	Clean ES™ filter	-	1
	5	Solution tank, ES™ mode	Clean	-	1
50 Hours	10	Scrub brushes	Rotate end-for-end or front-to-rear	-	1
100 Hours	6	Radiator	Clean core exterior	-	1
			Check coolant level	WG	1
	4	Engine crankcase	Change oil and filter element	EO	1
	13	Cover seals	Check for damage and wear	-	4
	4	Engine	Check fan belt tension	-	1
			Check and adjust idle speed	-	1
			Check and adjust idle mixture	-	1
	3	Hydraulic fluid reservoir	Check fluid level	HYDO	1
	-	Tires	Check for damage	-	3
	8	Rear squeegee	Check leveling	-	1
	8	Rear squeegee casters	Lubricate	SPL	2

1-10

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20. Repeat t he procedure on t he other wheel. 21. Rotat e the brak e cable tur n buckle until the brake c able is tight or unt il the brak e pedal tr avels 25 50 m m 1 2 in before engaging brakes. 22. T ighten t he brake c able turn buck le jam nuts. 23. Reinstall the f loor plate in t he operat ors compar tment. 24. Oper ate the m achine and check the br akes for pr oper operation. Ins pect t he rear wheel bearings for seal damage, and repack and adjust every 1600 hours of operat ion. Use Lubriplat e EMB grease T ENNANT part no. 01433 1. TO REP ACK RE AR WHEEL BEARI NGS FO R SAFE TY Befo re Leavin g O r Servici ng M achi ne; Sto p On L evel Surf ace, Set Parkin g Brake, T u rn Off Mach ine An d Remo ve Key. 1. Drain t he solution and r ecovery tank s. 2. Make s ure the par king brake is not engaged. 3. Remove f loor plat e from the oper ators compar tment. 4. Loosen t he jam nuts on the br ake cable t urn buckle. Blo ck machi ne u p w ith jack stan ds. 6. Remove t he hub cap f rom t he center of t he tir e and wheel assembly. 7. Re mo ve the co tter p in, slotte d nu t, flat washer, and bear ing cone. 8. Remove t he tir e and wheel assembly f rom the m achine. 9. Pack the wheel bear ings with Lubr iplate EMB gr ease. 10. Slide the t ire and wheel ass embly on t he axle. 1 1. Slide the outer bearing, flat washer and nut on th e sha ft. T he tir e should spin f reely. 15. Reinstall the hub c ap in the cent er of t he wheel. 16. Lower t he machine. 17. Repeat t he procedure on t he other wheel. 18. Rotat e the brak e cable tur n buckle until the brake c able is tight or unt il the brak e pedal tr avels 25 50 m m 1 2 in before engaging brakes. 19. T ighten t he brake c able turn buck le jam nuts. 20. Reinstall the f loor plate in t he operat ors compar tment. 21. Oper ate the m achine and check the r ear wheels for proper oper ation. The s upport has one gr ease fit ting f or the bearings.

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T he front wheel support bearings mus t be lubricat ed every 200 hour s of oper ation. Use Lubriplat e EMB greas e T ENNANT part no. 01433 1. T orque t he front wheel nut s to 142 156 Nm 105 1 15 f t lb aft er the f irst 50hour s of operat ion, and every 800 hours t hereaf ter. T orque t he front wheel hub nut to 375 ft lb TO REPL ACE FRO NT DRIVE M OTOR FO R SAFE TY Befo re Leavin g O r Servici ng M achi ne; Sto p On L evel Surf ace, Set Parkin g Brake, T u rn Off Mach ine An d Remo ve Key. 1. Engage park ing brake, block r ear tir es. 2. Jack up f ront of m achine. Use jack st ands to support m achine. FO R SAFE TY Bl ock mach in e tires bef ore jacki ng mach ine u p. Jack machi ne up at d esig nated l ocati on s on ly. Blo ck machi ne u p w ith jack stan ds. 3. Remove t he fr ont tir e and wheel assembly. 4. Remove t he cot ter pin and sl otted nut f rom the f ront wheel dr ive mot or shaf t. 5. Use a puller t o remov e the driv e hub from the t apered shaf t of the dr ive motor. 6. Remove and plug t he hydraulic hoses leading to t he front wheel driv e motor. NOT E O bserv e hydraulic cleanlines s requirem ents when opening hydr aulic lines. 7. Remove t he four drive m otor m ounting bolts. 8. Slide the motor out of f ront wheel housing. Not e the or ientat ion of the m otor. 1 1. Reinstall the f our soc ket head screws. T orque t o 90 1 17 Nm 70 85 f t lb. 12. Reconnect the hy draulic hoses to t he drive motor. NOT E M ake sure t he square key is in place on the s haft of t he new motor. 13. Mount the dr ive hub to t apered mot or shaf t. T ighten s lotted nut t o 500 Nm 375 f t lb. Insta ll th e co tter pi n. 14. Inst all the f ront tir e. T orque t he fr ont wheel nuts t o 142 156 Nm 105 1 15 f t lb. 15. Remove jac k stands and lower mac hine. 16. Oper ate the m achine and check the f ront drive mot or for any leaks. Use jack st ands to support m achine. Blo ck machi ne u p w ith jack stan ds. 4. Remove t he fr ont tir e and wheel assembly.

5. Remove and plug t he hydraulic hoses leading to t he front wheel driv e motor.Retain t he spacer. 8. Remove t he cot ter pin and large s lott ed nut fr om the t op of t he pivot pin. 9. Loosen t he two M10 s ocket head bolt s holding the pivot pin t o the mac hine fram e. NOT E Us e a floor jac k to s upport t he wheel housing befor e removing t he pivot pin. T he wheel housing and driv e motor as sembly is very heavy. 10. Remove t he pivot pin f rom t he bott om of t he wheel support. NOT E Do not loose t he thr ust washer fr om on top of the wheel hous ing. 1 1. Remove the wheel hous ing and drive mot or assem bly out of the m ain fram e. 12. Use a st eel punch and hammer to dr ive the old bearing cups out of the w heel housing. Use a large pr ess or a punch and hammer to ins tall the c ups. 14. Pack t he new bearing cones with Lubr iplate EMB grease. Coat the bearing c ups with grease. 15. Posit ion the new bearing c ones in the wheel housing. 16. Posit ion the t hrust washer on t op of t he upper bearing c one. 17. Posit ion the wheel housing bac k in the machine. 18. Slide the lar ge pivot pin up t hrough hole in the m achine fram e. T hread cast le nut on t he top of the piv ot pin. T ighten t o 34 40 Nm 25 30 f t lb. Check t he wheel housing f or play. If pin is not seated, t ap with rubber mallet and r e t orque cast le nut. NOT E T he wheel housing should r otate wit h a slight amount of dr ag. 19. T orque t he top soc ket sc rew with a hand tor que wrench to 100 1 15 Nm 73 85 ft lb. 20. T ighten t he cast le nut t o the next slot and insert the c ott er pin. T or que not t

o exceed 100 Nm 75 f t lb. 21. Check t he cast ing to see if it rock s or binds. T ight en to 270 300 Nm 200 220 f t lb. T ighten M 8 hex scr ews to 18.5 24Nm 15 20 ft lb. 26. Inst all the f ront tir e. T orque t he fr ont wheel nuts t o 142 156 Nm 105 1 15 ft lb 27. Re c onnect batt ery cables, s tart engine, run propelling in bot h directions, chec k for leaks.

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28. Remove jac k stands, lower m achine to t he ground. The br ushes scr ub the floor. As t he machine is m oved for ward the squeegee wipes the dir ty s olution off t he floor, which is t hen picked up and drawn int o the recov ery tank by t he vacuum f an. T here are t hree sett ings on t he solution f low high, low, and off. T here is a LH and a RH solut ion tank. They are connec ted by a lar ge diamet er solution line. TO RE MOVE LH SOLU TION T AN K FO R SAFE TY Befo re Leavin g O r Servici ng M achi ne; Sto p On L evel Surf ace, Set Parkin g Brake, T u rn Off Mach ine An d Remo ve Key. 1. Empt y t he solution and r ecovery t anks. 2. Open t he engine side door and engine cover. 3. Unlatc h the rear radiat or cover panel and tilt it open. 4. Disconnec t t he wires going to t he float switc h at t he back of the LH s olution tank. 5. Remove t he two hex scr ews fr om the rear tank brack et where it att aches t o the LH soluti on tank. 6. Remove t he one hex sc rew fr om the r ear, lower corner of t he LH t ank. T his hex screw is locat ed near the lef t hand t aillight. 7. Go t o the f ront of t he LH solution t ank. Disconnec t the s olution cr oss ov er line fr om the bot tom, f ront of t he LH solution t ank. NOTE Access t he the cla mp on the cross over line is made eas ier by remov ing the t wo vacuum hoses leading t o the rec overy t ank. 8. Remove t he two M 8 hex screws fr om the fr ont of t he LH solut ion tank near t he engine alter nator. 9. The LH s olution t ank can now be lif ted up and out of the m achine fr ame. NOT E B e caref ul not to pinc h hydraulic hos es or electr ical wires during this pr ocedure. 2. Reinst all the t wo M8 hex sc rews in the f ront of t he LH solution t ank near t he engine alter nator. Leav e hardware loose f or now. 3. Reinst all the t wo M8 hex sc rews in the t op, rear of t he LH solution t ank in the r ear tank brack et. Leav e hardware loose f or now. 4.

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Reinst all the one M8 hex scr ew in the rear, bott om of t he LH solut ion tank near the LH taillight. 5. T ighten t he fiv e M8 hex sc rews to 18 24 Nm 15 20 ft lb. 6. Reconnect t he solution c ross over line at the bot tom of t he tank. NOT E Reconnect t he vacuum hoses if removed earlier. 7. Reconnect t he wires t o the float swit ch at the bac k of t he LH solution t ank. 8. Close the rear r adiator cov er panel and latch. 9. Close t he engine side door and engine cover. 10. Fill t he LH solution t ank wit h water and check f or leaks. See TO REM OVE LH SOLUT IO N T ANK and TO REM OVE RECOV ERY T ANK inst ruct ions. 2. Remove t he one hex sc rew fr om the r ear, lower corner of t he RH t ank. T his hex screw is locat ed under the f rame, above t he drain cap. 3. Place t he operat ors seat in the r aised position and engage t he prop rod. 4. Remove t he two M 8 hex screws fr om the fr ont, right cor ner of the RH solution tank where it att aches t o the seat suppor t. 5. Disconnec t any s olution lines st ill att ached t o the RH s olution tank. 6. The RH s olution t ank can now be lif ted up and out of the m achine fr ame. NOT E B e caref ul not to pinc h hydraulic hos es or electr ical wires during this pr ocedure. 2. Reinst all the one M8 hex scr ew in the rear, bott om of t he RH solut ion tank. This hex scr ew is located under the f rame, above t he drain cap. Leave har dware loose for now. 3. Reinst all the t wo M8 hex sc rews fr om the fr ont, right cor ner of the RH solution tank where it att aches t o the seat suppor t. Leave hardware loos e for now. 4. Reconnect any solut ion lines that wer e disconnec ted fr om the RH s olution t ank. 5. The r emain RH solut ion tank har dware will be installed dur ing the rec overy t ank installat ion. S ee TO INS T ALL RECO VERY T AN K and T O INST ALL LH S OLU TION T ANK ins truc tions.

TO REMO VE RECO VER Y T ANK FO R SAFE TY Befo re Leavin g O r Servici ng M achi ne; Sto p

On L evel Surf ace, Set Parkin g Brake, T u rn Off Mach ine An d Remo ve Key. 1. Empt y t he solution and r ecovery t anks. 2. Place t he operat ors seat in the r aised position and engage t he prop rod. 3. Remove t he LH solut ion tank. See TO REMOVE LH SOLUTION T ANK instructio ns. 4. Disconnec t t he vacuum and s queegee hoses f rom t he front of the r ecovery tank. 5. Remove t he two hex scr ews holding the demist er cover on the r ecovery tank. Remove t he demist er cover. 6. If t he machine is equipped wit h an overhead guard, it m ust be rem oved in order t o remove t he tank lintel. NOT E T he engine hood must be suppor ted in the open position bef ore t he next s tep can be complet ed. 7. Remove t he clips on t he bott om of t he engine hood gas spr ings. Remov e the gas springs fr om the ball s tuds on t he support channel. 8. Remove t he hex sc rews holding t he support channel t o the tank lintel and hood lint el. Remove t he support channel f rom t he machine. Rem ove the c over. 1 1. Remove the hex s crews holding t he tank lintel t o the f rame, recov ery t ank, RH soluti on tank, and seat support. Rem ove the lintel f rom t he machine. 12. Mark, disconnec t, and plug the t hree hydraulic hoses leading t o the engine f an hydraulic m otor. NOT E Obs erve hydraulic cleanlines s requirem ents when opening hydr aulic lines. 13. Disconnec t the s olution line at the f ront of the r ecovery t ank if the m achine is equipped with t he auto fill option. 14. Disconnect t he wires leading t o the f loat switc h that is locat ed at t he front, r ight corner of t he recover y tank. NOT E M achines equipped wit h ES will have t wo switc hes on the f loat as sembly. 15. Disconnec t the s olution hose at t he back of the t ank if t he machine is equipped with t he ES t option. 16. Unplug the main elec tric al harness f rom t he ES t pump at the r ear of t he tank. 17.

Remove t he ES t pump and c ap assembly fr om the rec overy t ank. 18. Remove t he one hex scr ew and two nyloc nuts holding t he radiat or assem bly to t he back of t he recovery tank. Leave t he black mount plate at tached t o the r ecovery tank. Do not disc onnect t he hoses f rom t he radiat or. Let the r adiator ass embly lean against t he oil cooler. 20. Remove t he two M8 hex scr ews att aching the r ear tank br acket to t he RH solut ion tank 21. Remove t he one M8 hex sc rew under t he rear of t he tank, just above t he drain cap. 22. Carefully pus h the recover y tank f orward, lif t it up, and remov e it f rom t he machine. NOT E A n overhead hoist or t wo people must be.NOT E A n overhead hoist or t wo people must be used when posit ioning the rec overy t ank back in the m achine fram e. 1. Posit ion the r ecovery tank back in t he machi ne frame. NOT E B e caref ul not to pinc h hydraulic hos es or electr ical wires during this pr ocedure. 2. Reinst all the t ank lintel in t he machine. Reinstall the s ix M8 hex sc rews. Leave t he hardware loos e for now. 3. Reconnect t he solution line at t he front of the recov ery tank if mac hine is equipped with t he auto f ill option. 4. Reconnect t he float swit ches at the front of the r ecovery t ank t o the main har ness. S ee schem atic in t he ELECT RICAL sec tion. 5. Caref ully pivot t he radiator assem bly back in position on t he rear of t he recover y tank. Reinstall the har dware and tight en to 18 24 Nm 15 20 ft lb. 6. Plug t he ES t pump bac k in the m ain harness. See sc hematic in the ELECTRICAL sectio n. 7. Reinst all the hardwar e in the rear tank brack et where it att aches t o the RH s olution tank. 8. Reinst all the one M8 hex scr ew under the rear of t he tank, just above t he drain cap. 9. Reinst all the suppor t channel t o the t ank lintel and hood lint el. Reinst all the f our M8 hex scr ews. 10. T ighten t he all of t he M8 hex sc rews t o 18 24 Nm 15 20 ft lb.

Reinst all the t wo clips. 12. Reconnect the hy draulic hoses to t he engine fan mot or. See s chemat ic in the HYDRAULI C sect ion. NOT E Obs erve hydraulic cleanlines s requirem ents when opening hydr aulic lines. 13. Reinstall the dem ister c over on t he recover y tank. Reinst all the t wo M8 hex s crews and tight en to 18 24 Nm 15 20 f t lb. 14. Reinstall the LH s olution tank. See TO INST ALL L H SOLU TION T AN K ins truc tio ns. 15. Reconnect t he two vacuum hoses t o the fr ont of the recovery t ank. 16. Reinstall the ov erhead guard if it was remove d earli er. 17. Reinstall the t ank drain cov er to t he rear of the t anks. Reinst all the hardwar e and tighten to 18 24 Nm 15 20 f t lb. 18. Reinstall the s olution and recov ery t ank drain cov ers. 19. Part ially fill the rec overy t ank with water and check f or any leaks and for proper oper ation of the float swit ches. Water fr om the soluti

on tank f lows to t he center of of t he scrub head brush wr ap and is spread evenly in fr ont of the s crub brushes. TO REPL ACE MAI N SCRUB BRUSHES 1. Place t he main sc rub brushes in the r aised position. FO R SAFE TY Befo re Leavin g O r Servici ng M achi ne; Sto p On L evel Surf ace, Set Parkin g Brake, T u rn Off Mach ine An d Remo ve Key. 2. Open t he RH brush door. 3. Pull back on the f ront ball joint loc king collar on the lev eling rod. Remov e the leveling r od fr om the f ront ball s tud. 4. Remove t he two hair pins f rom the br ush wrap at tachment pins. 5. Remove t he M12 hex s crew holding t he brush idler plate ar m to t he lift tube. 6. Remove t he idler plat e and side squeegee assem bly from the m achine. NOT E T hread t he mounting bolt into t he idler arm remov al hole if you are hav ing trouble r emoving the idler arm. 7. Pull t he two main br ushes off t he drive plugs. 6. Line up the dr ive end of t he new or rot ated brushes with t he brush driv e plugs.

T he cylindr ical scrub br ushes mus t be inst alled with t he V patt e r n s on t he brushes point ing towar ds each other. Slide the br ushes ont o the brus h drive plugs. 8. Reinst all the idler plat e and side squeegee assem bly in the mac hine. NOT E Lif t up on t he brush wrap s lightly when installing t he idler plat e in the mac hine so the att achment pins line up wit h the holes in t he plate. NOT E A pply a small am ount of grease t o the thr eads on the bolt and in the t ube. 1 1. Reinstall the t wo hair pins in t he brush wr ap att achment pins. 12. Reconnect the f ront of t he leveling rod t o the ball stud. 13. Close the R H brush door and operat e the machine. Check the m ain brushes f or proper operat ion. CHECKING AND ADJUST ING SCRUB BRUSH P A TTERN 1. Apply chalk, or some ot her material t hat will not easily blow away, to a smoot h, level floor. 2. Raise t he scrub head. Pos ition the s crub head over t he chalked area. 3. Set the par king brake. 4. Lower t he scrub head f or 15 t o 20 seconds while keeping the s crub head in one spot in the chalk ed area. NOT E If c halk or other material is not available, allow the br ushes to s pin on the f loor for t wo minut es. A polis h mark will r emain on the f loor. 5. Raise t he scrub head, releas e the park ing brake, and driv e the machine away fr om the chalked ar ea. 6. Obs erv e the wi dth o f the br ush p atter n. If the brus h patt e r ns have parallel sides and are t he same width, t he brushes do not need taper adjus tment. If one or bot h of t he brush pat te r ns are taper ed, the s crub head will have t o be adjusted t o st raighten t he brush pat te r n. 10355 10652 Move t he scrub head up t o decreas e the patt e r n width on t hat side of the s crub head. Move t he scrub head down t o increas e the patt e r n width on t hat side of the s crub head. T ighten t he mounting bolt s and chec k the patt e r n again and readjust if nec essary. The br ush patt e r ns should be the s ame width.

If one is nar rower t hen the ot her, t he scr ub head needs to be leveled f rom f ront to rear. 8. Lengthen or short en the lev eling rods on both s ides of t he scrub head. Lengt hening the r ods will increase t he rear br ush patt e r n width. Short ening the r ods will will increas e the f ront br ush patt e r n. 10653 FO R SAFE TY Befo re Leavin g O r Servici ng M achi ne; Sto p On L evel Surf ace, Set Parkin g Brake, T u rn Off Mach ine An d Remo ve Key. 2. Open t he RH brush door. 3. Pull back on the f ront ball joint loc king collar. Remove t he leveling rod f rom t he front ball st ud. 4. Remove t he two hair pins f rom the br ush wrap at tachment pins. 5. Remove t he M12 hex s crew holding t he brush idler plate ar m to t he lift tube. 6. Remove t he idler plat e and side squeegee assem bly from the m achine. NOT E F or bet ter acc ess t o the shaf t and bearings remov e the C c lip and brush arm fr om the idler plate. 7. T urn t he idler plate and s ide squeegee assem bly over. Rem ove the cot ter pins, cast le nuts, and washer s fr om the idler plugs. 8. Use a puller t o remov e the idler plugs fr om the t apered shaf ts. Remov e and retain t he square k ey. 9. Remove t he ret aining rings f rom both ends of t he idler shaf ts. 10. Use a pres s to rem ove the t apered shaf ts fr om the idler plat e. P ush the s hafts out toward t he direct ion of t he idler plugs. NOT E Us e a small amount of heat in t he area of the bear ings to help break the loc tit e loose. 1 1. Use a press t o remove t he bearing f rom t he taper ed end of the idler shaf t. 12. Use a pres s to rem ove the bear ing from the bearing housing in t he idler plate. Disc ard the old bearings. 13. Use a pres s to inst all a new bearing in t he bearing housing on t he outs ide of t he idler plate. The open f ace of the bear ing points in.T he open face of the bear ing points i n. Reinst all the ret aining ring on the taper ed shaft

next to t he bearing. 15.

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