VIBROMAX

355 / 365 TANDEM ROLLER
355K / 365K COMBINATION ROLLER
455 / 465 TANDEM ROLLER
455K / 465K COMBINATION ROLLER

SERVICE MANUAL SM63005

January 2002



DIN EN ISO 9001
Certificate No. 59557-01

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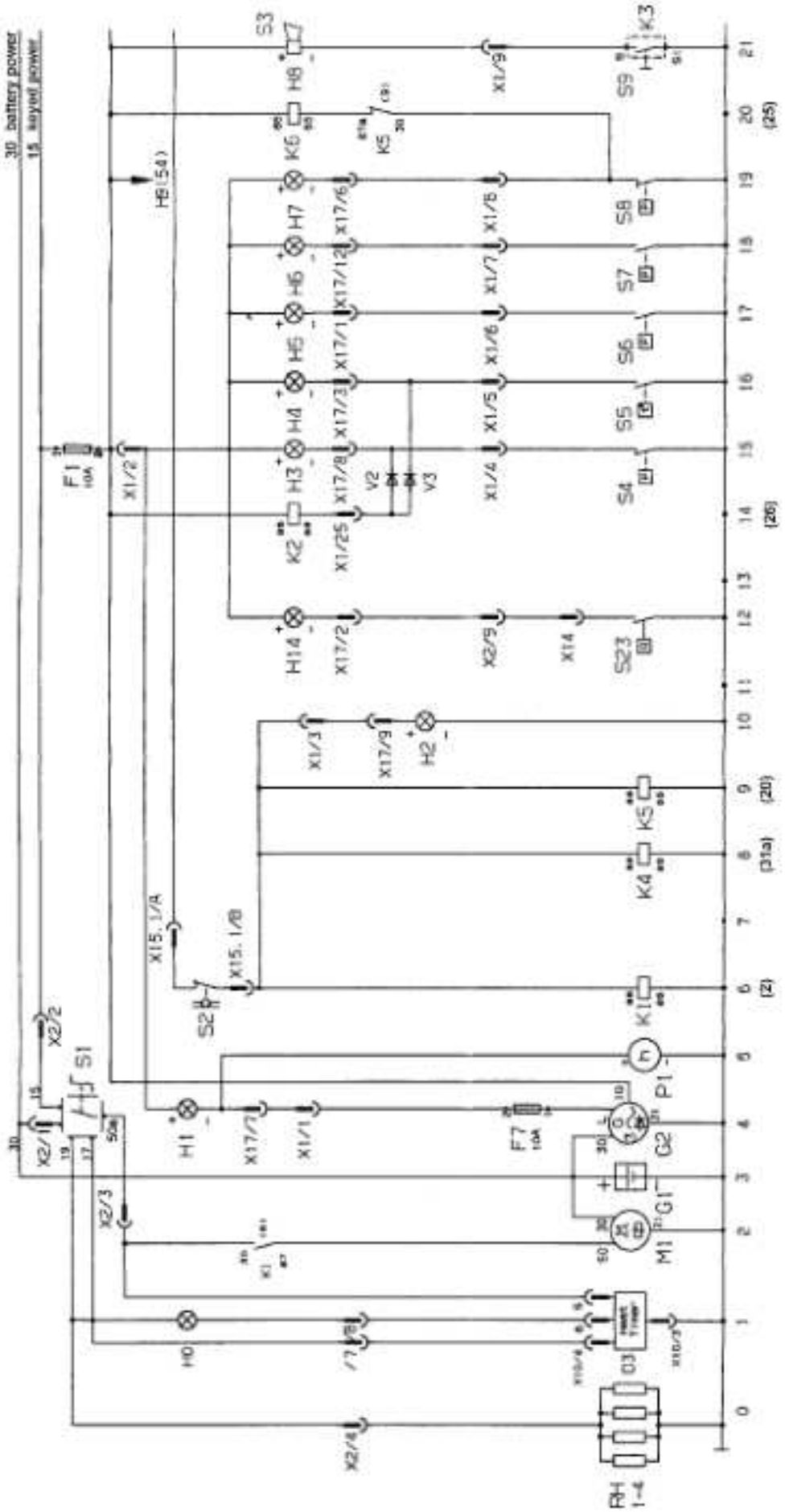
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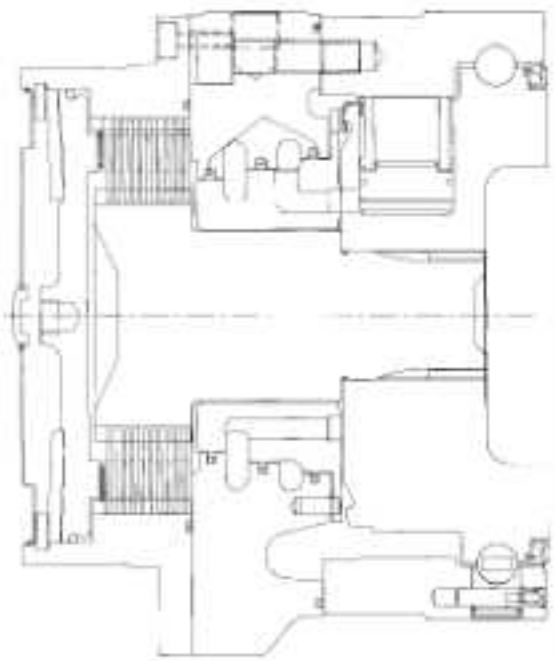


6/6/2001 ELECTRICAL SCHEMATIC #1
355/365 - 455/465

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DRUM REMOVAL

1. Block the machine before start of disassembly.
2. Remove the front or rear drum scraper depending on which drum is to be removed.
3. Remove the rubber plug in the center of the drive motor on the left side of the drum and manually release the motor brake using a metal bar and 12mm capscrew with nut to pull on the piston.



4. Disconnect, plug, and tag the hydraulic lines to the drive and vibration motors.
5. Support the frame and remove the twelve capscrews (item #63) from the left and right drum support brackets (item #5).
6. Jack the machine up to get the needed clearance and roll the drum from under the machine.

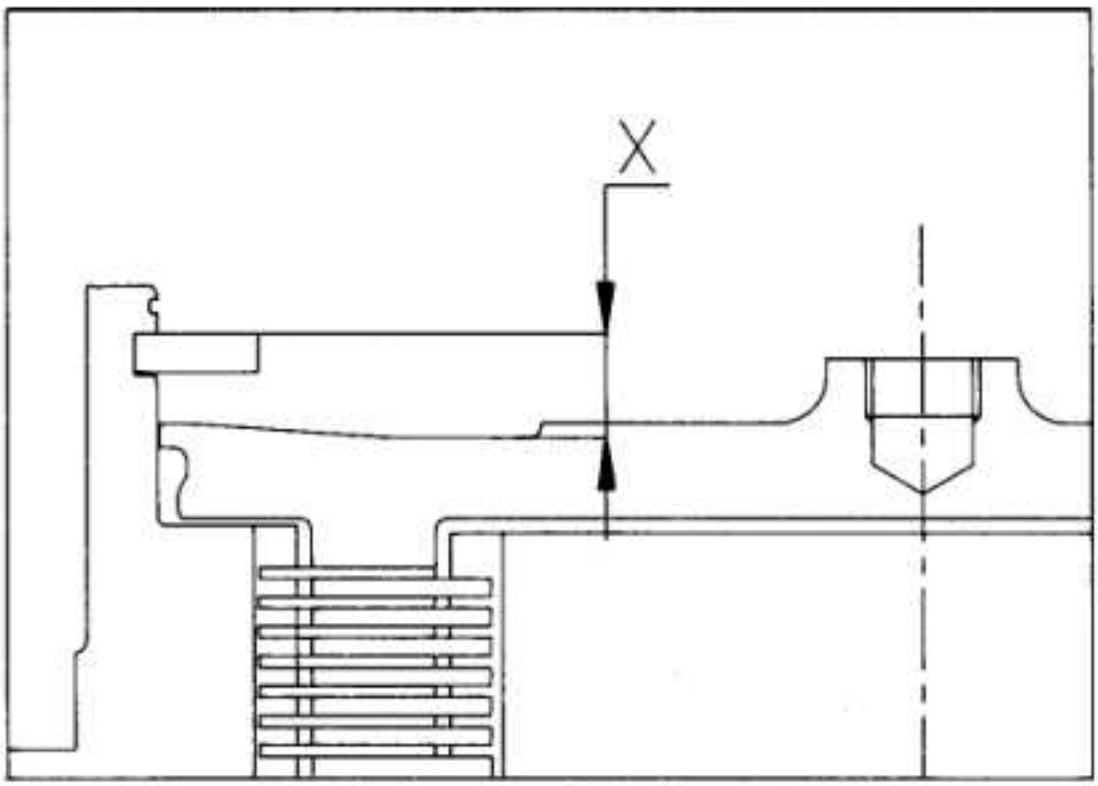
DRIVE MOTOR REMOVAL

CAUTION: The drum drive motor should not be removed until the drum is removed and sitting on end with the drive motor up. If this procedure is not followed, damage to the exciter shaft and bearings may occur.

1. Set the drum on its end with the drive motor facing up.
2. Remove the drum support bracket (item #5) by removing the four M20x220 bolts (item #45) .
3. Remove the two M16 security nuts (item #50) holding the buffer to the drum support bracket and remove the drum support.
4. Remove the 16mm capscrews (item #36) holding the motor mounting plate (item #19) and remove the plate.
5. Remove the inner motor mounting plate (item #18) and motor (item #35) as one assembly. Care must be taken as the exciter shaft bearing flange (item #17) will be loose and may want to come out with the motor and plate.
6. The motor mounting plate (item #18) can be removed after the motor is removed from the drum.

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7. Measure the dimension **X** as shown. The amount of shims needed must be equal to the **X** measurement minus .421 inch (10.70mm) +/- .004 inch (0.1mm).



8. Remove the snap ring and piston.
9. Install the shim pack on the last disc with the thickest shim towards the piston.
10. Replace the piston seals and install the brake piston and spring washer.
11. Apply a force to the piston and install the snap ring making sure it seats properly.
12. Install a new cover seal and install the cover.
13. Supply oil to the motor brake port at 175 PSI (12 bar) to 435 PSI (30 bar). Piston stroke should measure .030 inch (0.75mm) + .013 inch (0.35mm) - .010 inch (0.25mm) or between .020 inch (0.50mm) and .043 inch (1.09mm). If you are unable to get the proper measurement the shim pack must be adjusted.
14. Check for signs of seal leakage by watching for pressure decay.
15. Install the cover plug and reinstall the motor assembly.

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No.	Color	From	To
71	red	fuse F13/2 - plug X1 #32	flasher switch S19/30
72	black/red	fuse F5/2 - plug X1 #31	flasher switch S19/15
73	black/white	directional light H21 - plug X5 #2	flasher switch S19/L
74	black/white	plug X9/2 - plug X1 #35	flasher switch S19/L
75	black/white	flasher switch S19/L	directional switch S20/B
76	black/white	directional switch S20/B	directional switch S20/E
77	black/white	directional light H23 - plug X5 #4	flasher switch S19/R
78	black/green	plug X9/4 - plug X1 #36	flasher switch S19/R
79	black/green	flasher switch S19/R	directional switch S20/E
80	black/green	directional switch S20/C	directional switch S20/F
81	black/yellow	flasher switch S19/49a	directional switch S20/A
82	black/yellow	relay K9/49a - plug X1 #34	flasher switch S19/49a
83	black	relay K9/49 - plug X1 #33	flasher switch S19/49
84	black	flasher switch S19/49	flasher switch S19/30b
85	black/yellow	relay K9/C - plug X1 #15	flasher indicator H18 - plug X17 #5
86	black/gray	plug X9/5 - plug X1.1 #13	rear light switch S17/S2
87	yellow/black	fuse F3/2 - plug X1.1 #14	work light E5 - plug X5 #6
88	yellow/red	fuse F4/2 - plug X1.1 #15	work light E6 - plug X5 #7
90	black/blue	engine preheater RH1/3	key switch S1/19
91	black/blue	key switch S1/19	key switch S1/17
92	black/blue	plug X10/4 - plug X2 #7	key switch S1/17
93	black/blue	plug X10/6 - plug X2 #8	preheat indicator H0/-
95	black/blue	key switch S1/17	preheat indicator H0/+
97	white	switch S23 - plug X2 #9	fuel indicator H14/- - plug X17 #2
111	green/red	relay K2/85 - plug X1 #25	diode V3
112	green	diode V2	indicator plug X17 #8
113	red/white	diode V3	indicator plug X17 #3
114	green/red	diode V2	diode V3
119	brown	dash ground terminal	plug X5 #8
120	brown	plug X2 #5	ground terminal
121	brown	horn switch S9/S1	ground terminal
123	brown	hourmeter P1/- - plug X17 #15	two drum indicator H11/-
125	brown	horn switch S9/S1	rear light switch S17/31
126	brown	rear light switch S17/31	auto vib switch S11/31
127	brown	auto vib switch S11/31	two drum indicator H11/-
129	brown	plug X20	ground terminal

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