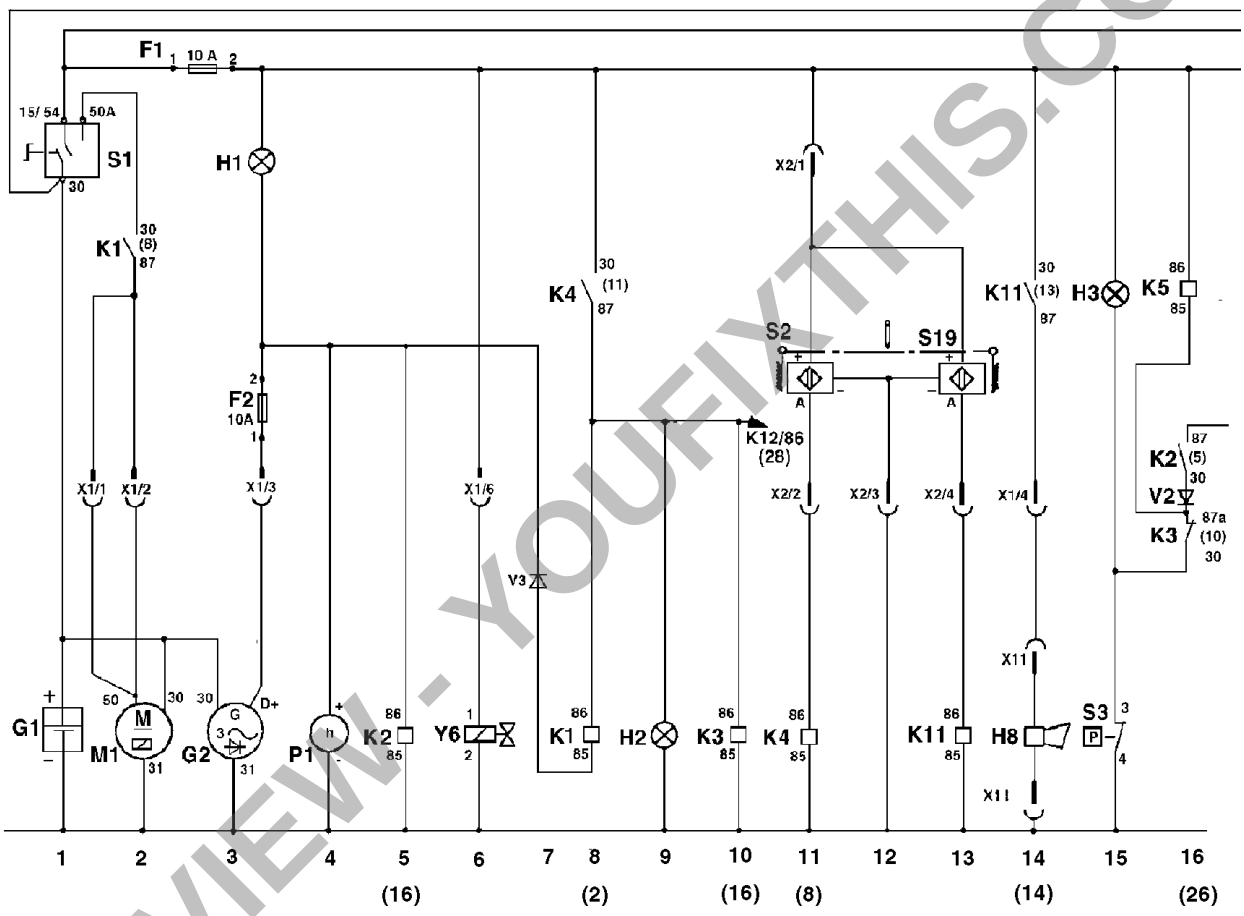
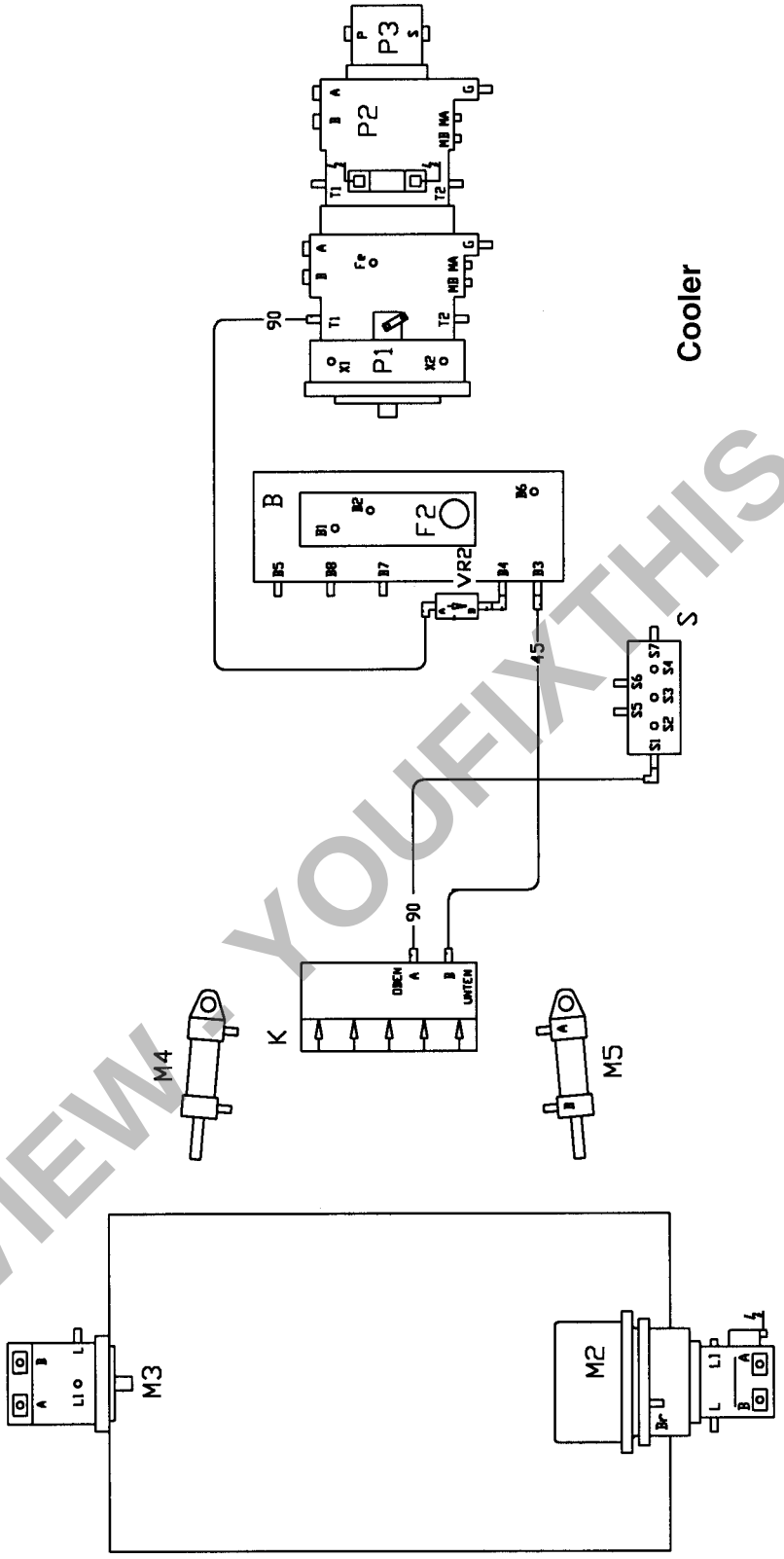
UNDERSTANDING ELECTRICAL SCHEMATICS



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HYDRAULIC COOLER LINES



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STANDARD TORQUE DATA

Where no special torque data is specified, the following torque figures should be applied. Threads should be lubricated with engine oil or grease.

STANDARD TORQUE SPECIFICATIONS +/- 10%

	GRADE 8.8		GRADE 10.9		GRADE 12.9	
SIZE	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm
5mm	4	5.5	5.5	7.5	6.6	9
6mm	6.6	9	9.2	12.5	11	15
8mm	16.5	22.5	23	31.5	26.5	36
10mm	32	44	45	62	55	75
12mm	57	77.5	81	110	95	130
14mm	88	120	125	170	155	210
16mm	140	190	195	265	236	320
18mm	192	260	269	365	320	435
20mm	273	370	383	520	457	620
22mm	369	500	516	700	619	840
24mm	471	640	665	900	796	1080
27mm	702	950	996	1350	1195	1620
30mm	955	1300	1328	1800	1593	2160

NUTS FOR TUBES AND HOSES

DIAMETER & PITCH	NEWTONS/METER	POUNDS/FOOT
16MM X 1.5	20	14.5
18MM X 1.5	35	26
20MMX1.45	45	33.2
24MM X 1.5	60	44

FITTINGS, CONNECTIONS AND PLUGS

DIAMETER & PITCH	NEWTONS/METER	POUNDS/FOOT
10MM X 1	20	14.5
12MM X 1.5	35	26
14MM X 1.5	45	33.2

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DRUM REMOVAL

1. Disconnect, tag, and cap the hydraulic lines for the drum drive motor on the left side of the machine. Plug the motor ports.

2. Disconnect, tag, and cap the hydraulic lines for the vibration motor on the right side of the machine. Plug the motor ports.

3. Block and support the front frame of the machine.

4. Remove the drive motor adapter to frame bolts on the left side of the machine.

5. Remove the front and rear buffer brackets on the right side of the machine.

6. Remove the front scraper bar and roll or lift the drum out of the front frame.

   Smooth drum = 9372 lbs (4250 kg) Padfoot drum = 10848 lbs (4920 kg.)

DRUM INSTALLATION

1. Roll or lift the drum into position in the machine's front frame. The drum must be positioned for alignment of the drive motor bracket to the left side frame bolt holes.

2. Install the bolts in the front and rear buffer brackets on the right side of the machine. This will allow the machine frame to be lowered or raised as needed to complete alignment of the drive motor bracket on the left side of the machine.

   NOTE: To complete alignment of the left side gearbox and plate might require hooking up the machine's brake system and using the hand pump to release the brake on the gearbox. (see the brake section of this manual on releasing the brakes for towing)

3. Install the front scraper bar.

4. Tighten and torque the motor bracket and buffer bracket bolts.

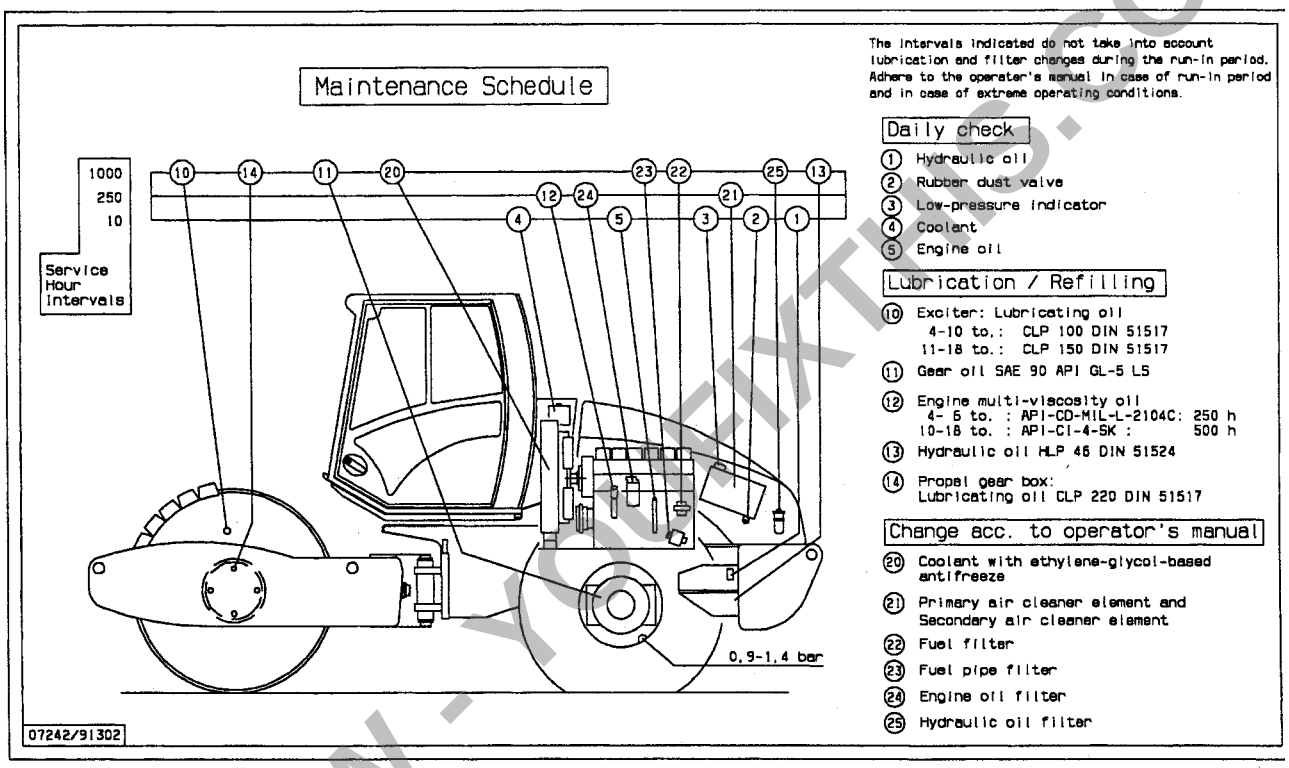
5. Install the hydraulic hoses on both the vibration and drive motors. **NOTE: Fill all motor ports with clean hydraulic oil prior to hose installation.**

6. Start the machine engine and allow the hydraulic systems to develop charge pressure. Allow the engine to run at low idle for several minutes without loading to fill and flush the system.

7. It may be necessary to bleed the brake system at the brake ports.

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The intervals indicated do not take into account lubrication and filter changes during the run-in period. Adhere to the operator's manual in case of run-in period and in case of extreme operating conditions.

Daily check

1. Hydraulic oil
2. Rubber dust valve
3. Low-pressure indicator
4. Coolant
5. Engine oil

Lubrication / Refilling

10. Exciter: Lubricating oil
    4-10 to.: CLP 100 DIN 51517
    11-18 to.: CLP 150 DIN 51517
11. Gear oil SAE 90 API GL-5 L5
12. Engine multi-viscosity oil
    4- 5 to. : API-CD-MIL-L-2104C: 250 h
    10-18 to. : API-CI-4-SK : 500 h
13. Hydraulic oil HLP 46 DIN 51524
14. Propel gear box:
    Lubricating oil CLP 220 DIN 51517

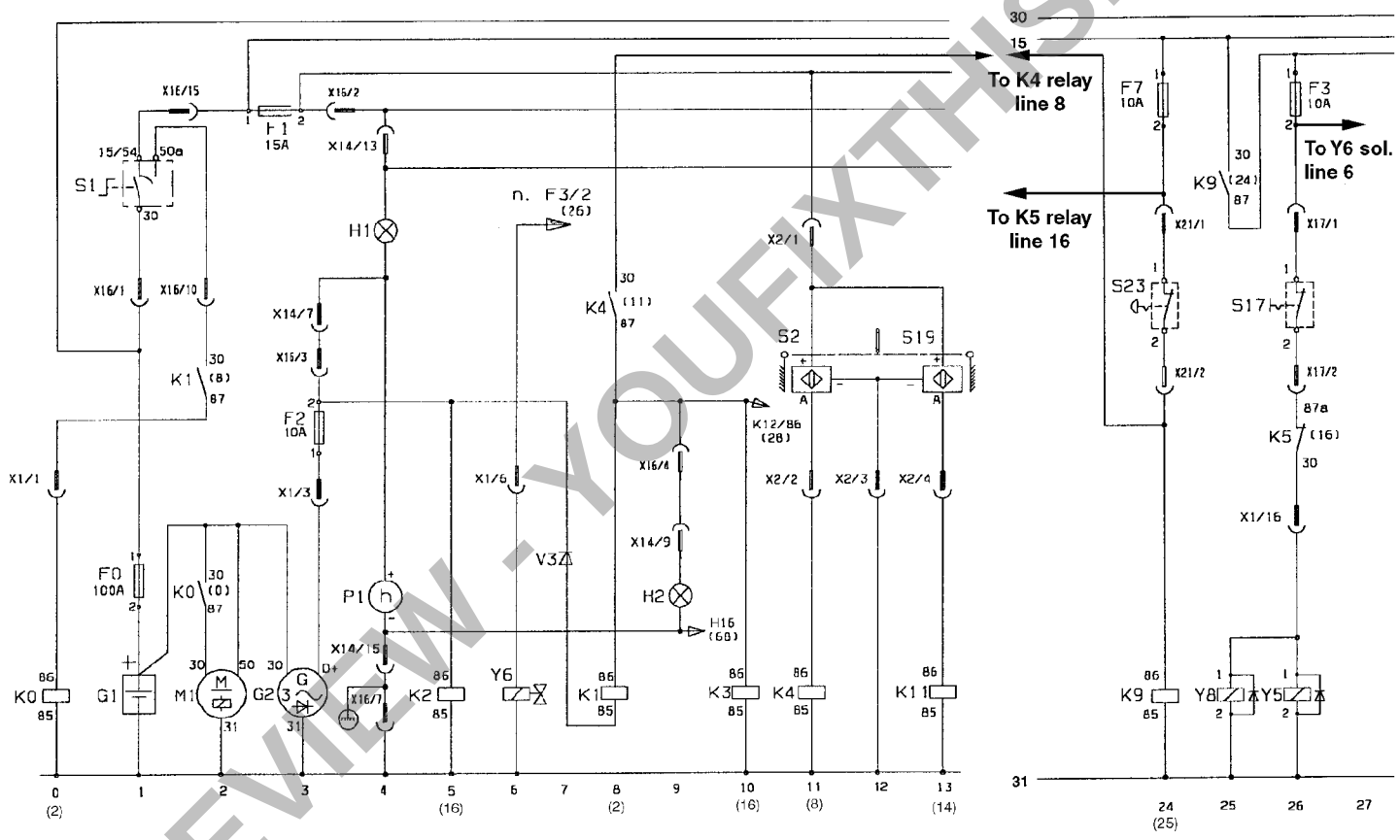
Change acc. to operator's manual

20. Coolant with ethylene-glycol-based antifreeze
21. Primary air cleaner element and Secondary air cleaner element
22. Fuel filter
23. Fuel pipe filter
24. Engine oil filter
25. Hydraulic oil filter

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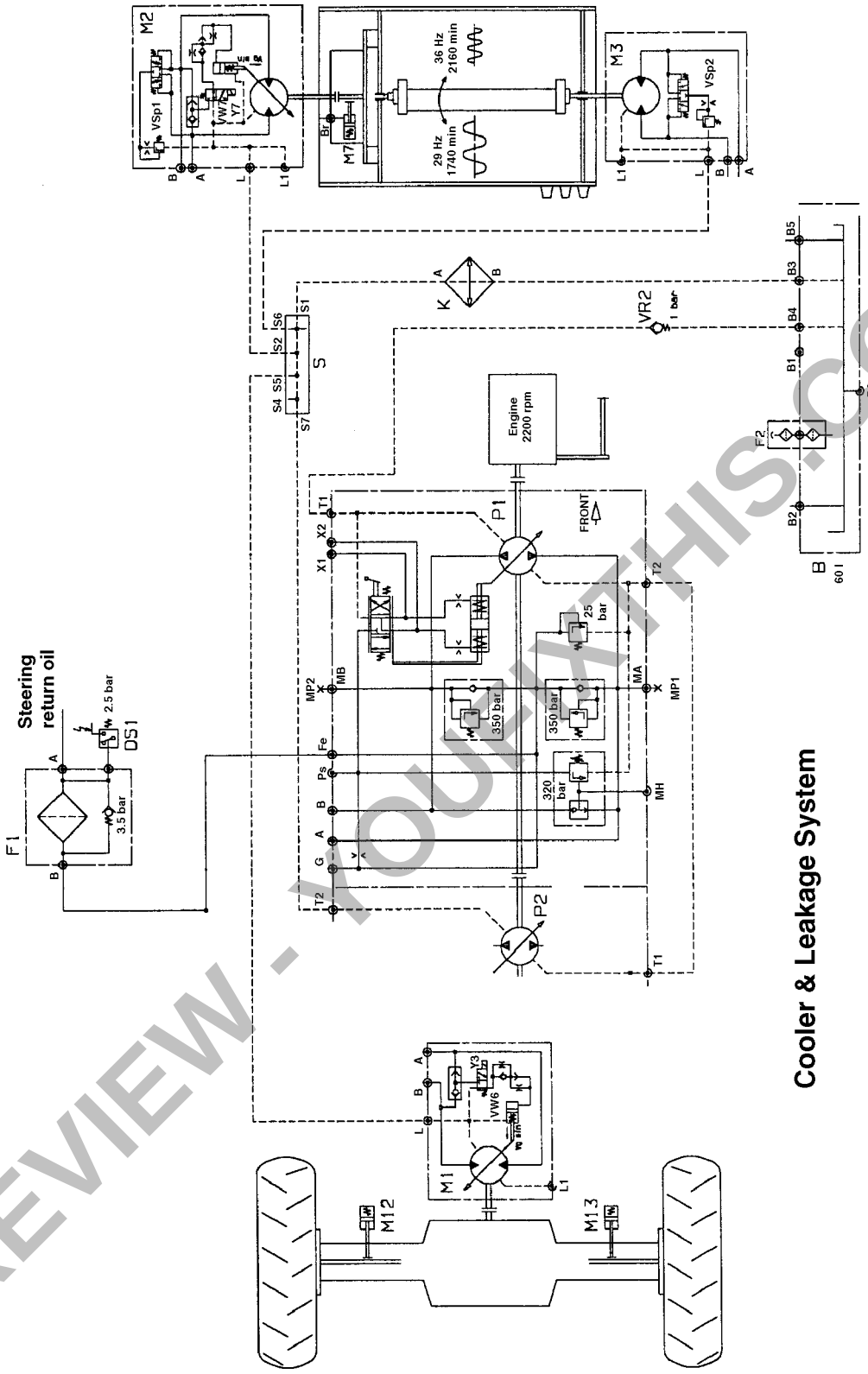
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Starter/Charge Circuit



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Cooler & Leakage System

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FITTINGS, CONNECTIONS AND PLUGS

DIAMETER & PITCH	NEWTONS/METER	POUNDS/FOOT
16MM X 1.5	60	44
18MM X 1.5	70	51
22MM X 1.5	100	73
27MM X 2	200	147
33MM X 2	280	207
42MM X 2	380	281

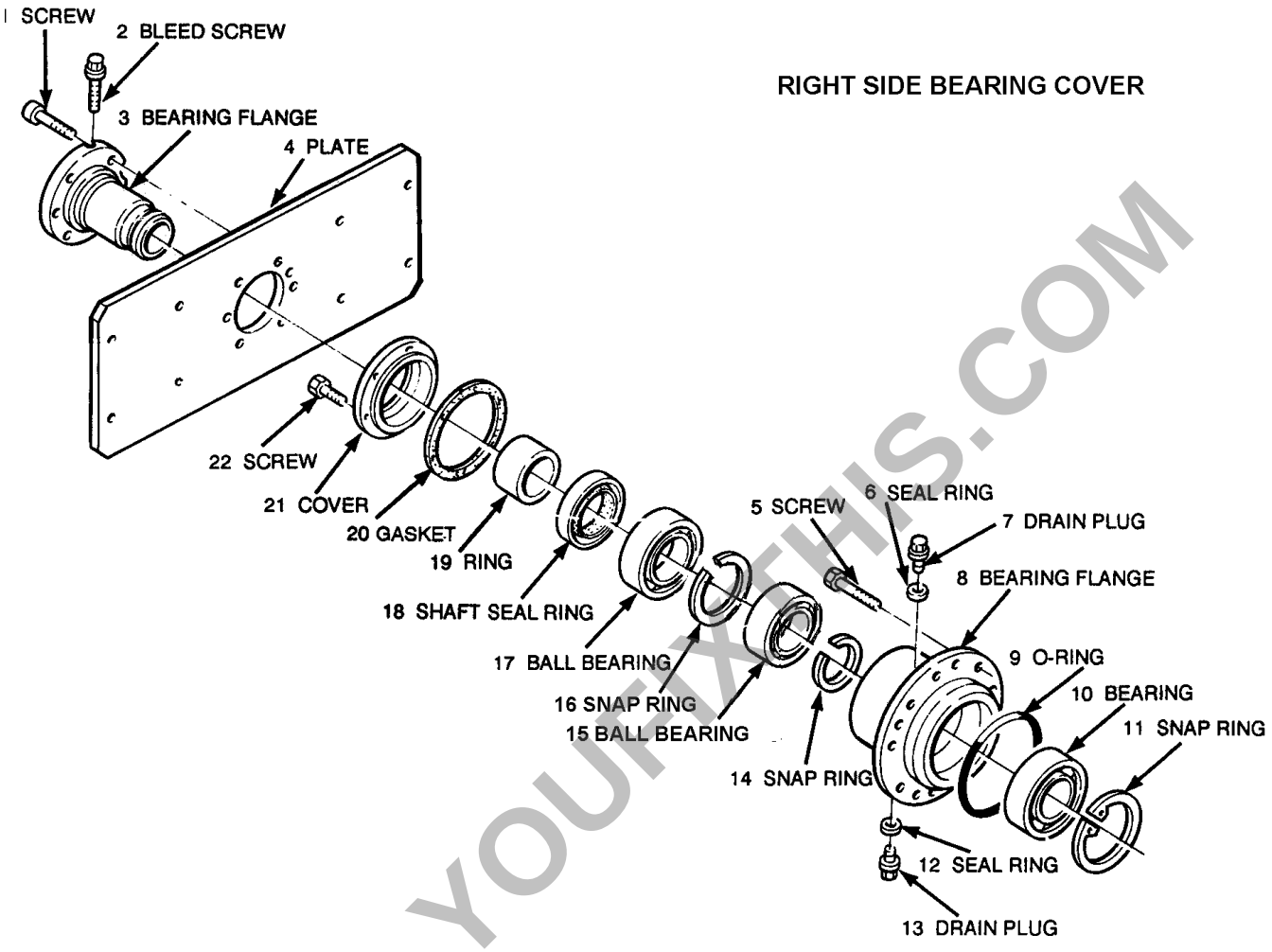
FLANGES

DIAMETER & PITCH	NEWTONS/METER	POUNDS/FOOT
8MM X 1.5	28	21
10MM X 1.5	55	41
12MM X 1.75	90	67
14MM X 2	145	107
16MM X 2	230	170

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RIGHT SIDE BEARING COVER



DRUM DRIVE BEARING REMOVAL

NOTE: The drum drive bearing for the drive motor side of the drum is actually built into the drive gearbox. The right side bearings are as shown above.

1. Remove the drum from the machine and drain the exciter shaft oil.
2. Remove the drum drive motor, gearbox, and drive plate from the left side of the drum.
3. Stand the drum on its end with the vibration motor facing upward.

   Smooth drum = 9372 lbs (4250 kg) Padfoot drum = 10848 lbs (4920 kg.)

4. Remove the vibration motor and motor coupling.
5. Remove frame angle plates from buffer plate (#4).
6. Remove capscrews (#5) from the bearing flange (#8) and use two jacking screws to remove

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MAINTENANCE SCHEDULE

The intervals given in this maintenance schedule must not be exceeded. If the machine is operated under severe conditions (high temperature, dust, water, etc.) shorten the interval.

As Required
Clean the machine
Fill the fuel tank
Service the air cleaner if warning light is lit
Service the hydraulic oil filter if warning light is lit
Check the torque of the wheel nuts

Every 10 hours or daily
Complete a daily walk around inspection
Check the condition of the machine's seat belt
Check air and water hoses
Clean or replace decals that cannot be read
Check the engine oil level
Check the hydraulic reservoir oil level
Check the drum scrapers
Check tire condition and pressure
Check the condition of the engine belts
Clean the rubber dust valve on air cleaner
Check the wheel nuts
Check the coolant reservoir fluid level

After the first 250 hours of operation
Change the oil in the drum gearbox
Change engine oil
Replace the engine oil filter

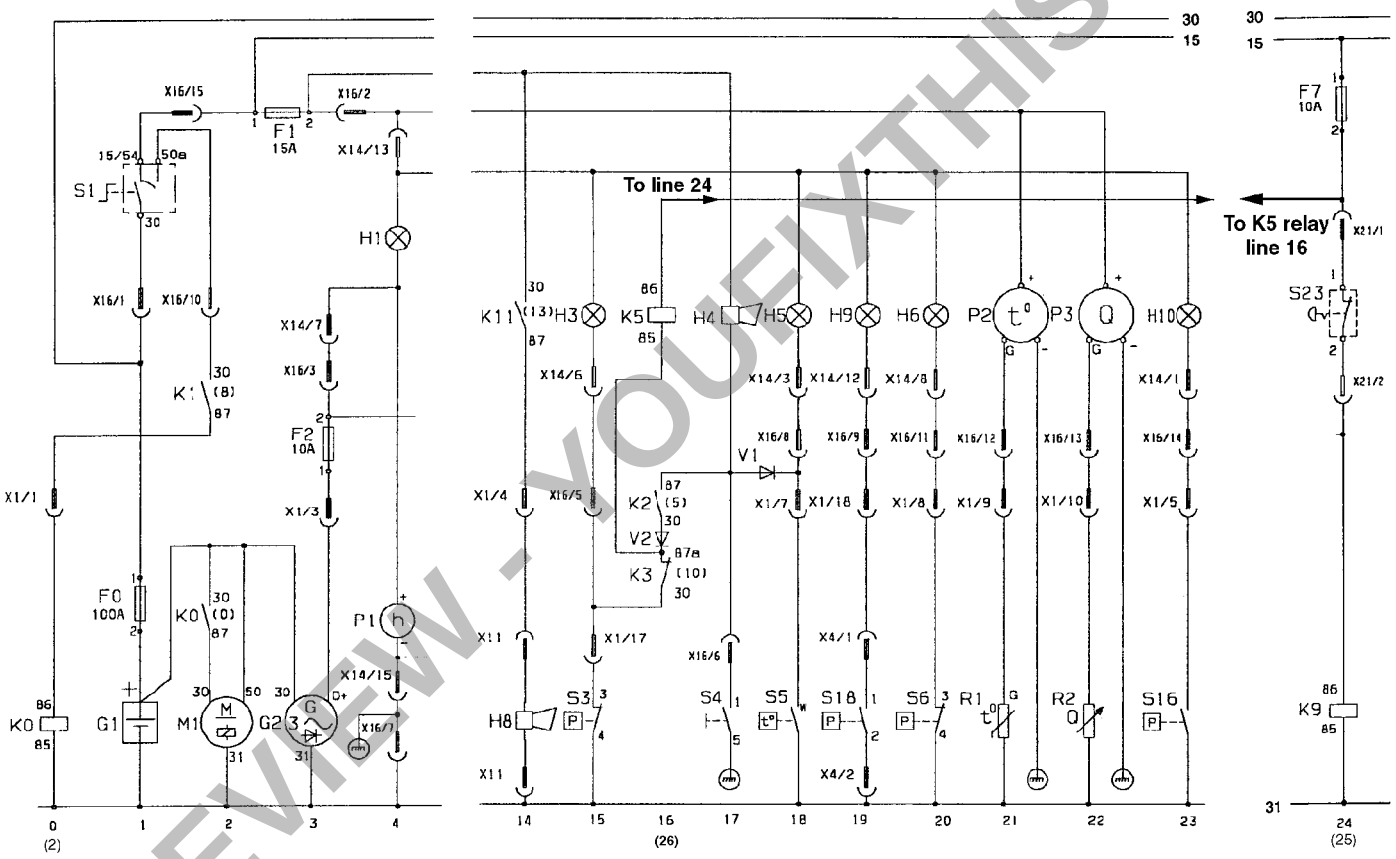
Every 250 hours of operation
Check axle oil levels
Check engine mounts
Check charge air cooler system
Check fuel injection pump mounting
Clean battery and check fluid level
Check the oil in the drum gearbox
Check the rubber buffers on the drum

After the first 500 hours of operation
Change oil in the rear axle

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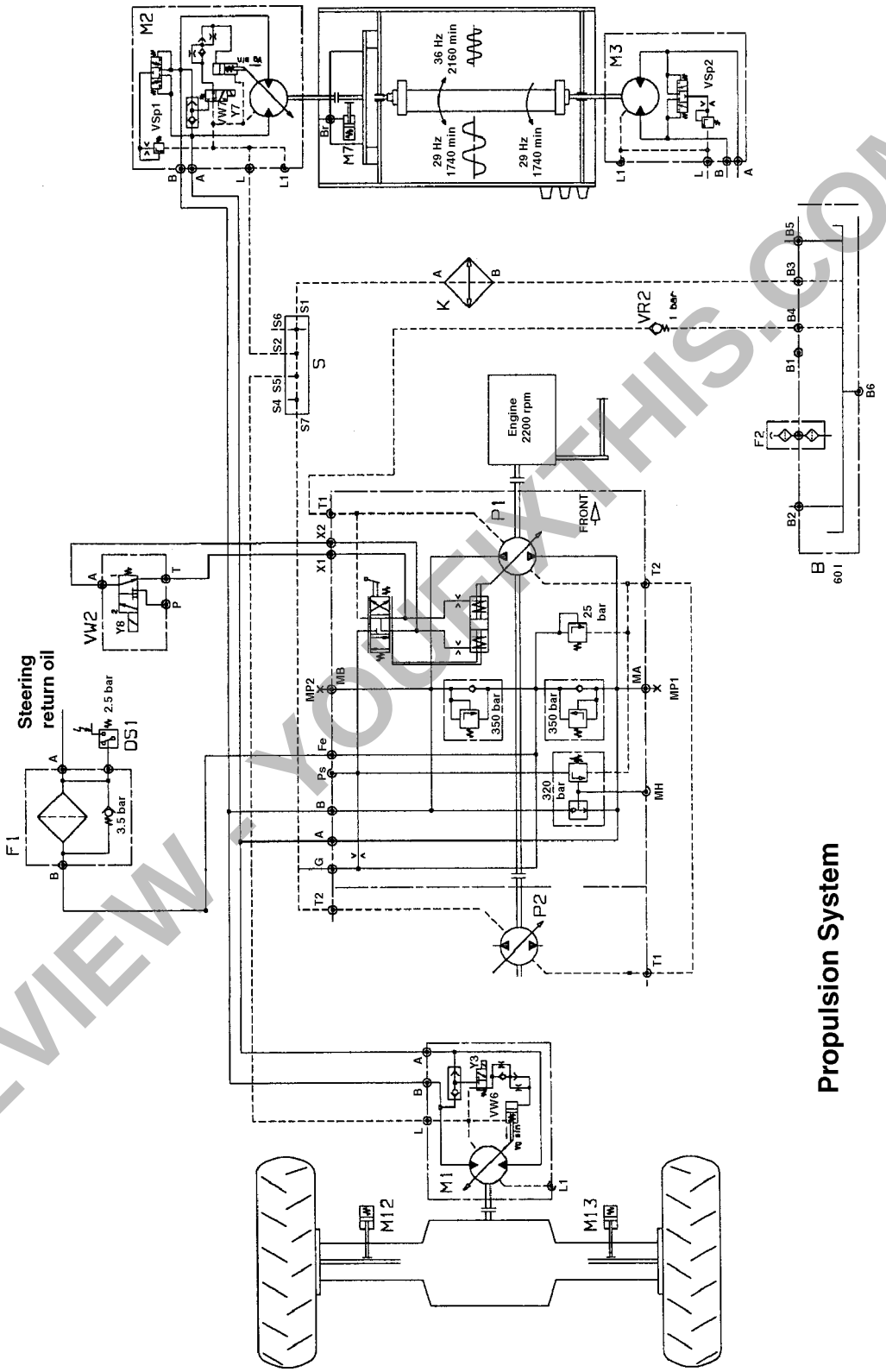
INSTRUMENT PANEL



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PROPULSION SCHEMATIC



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