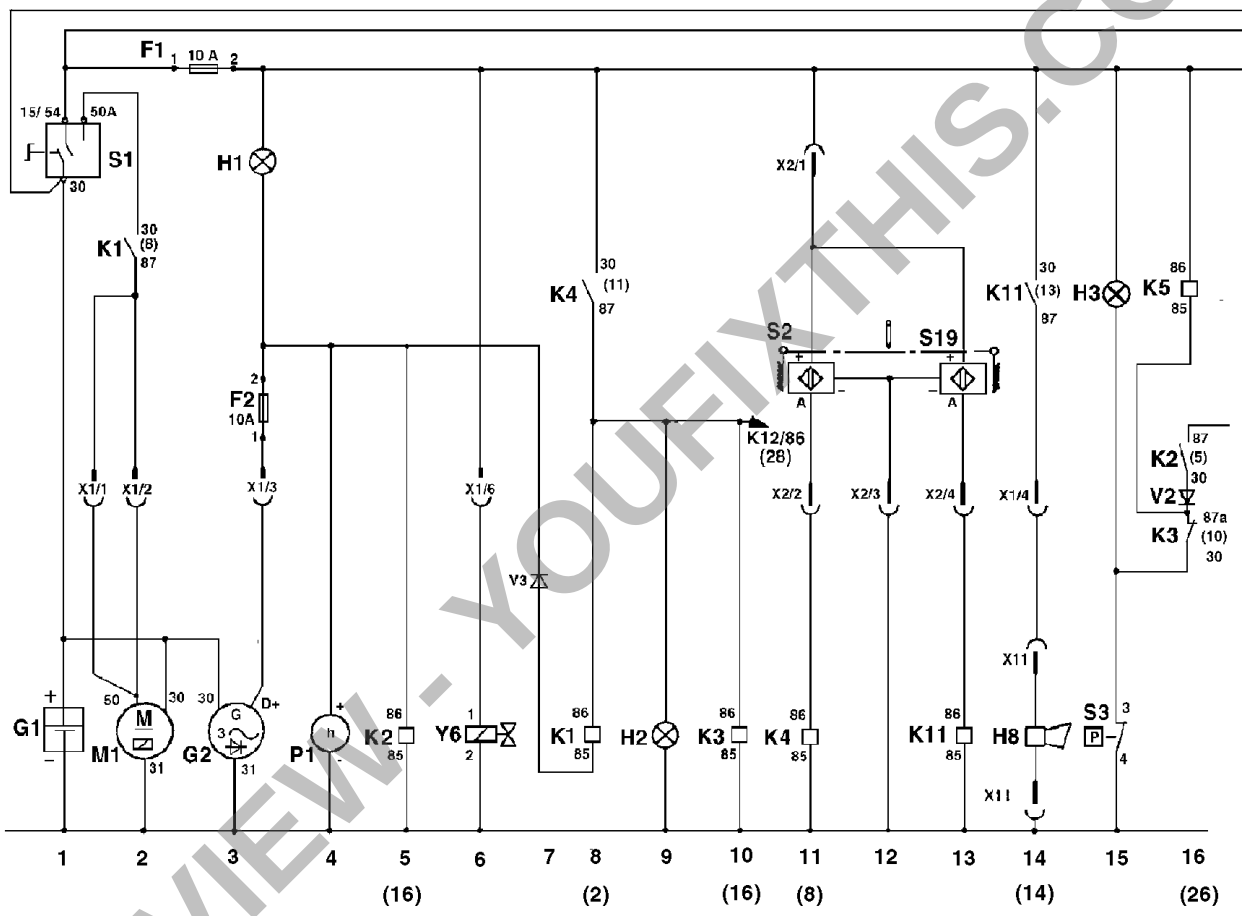
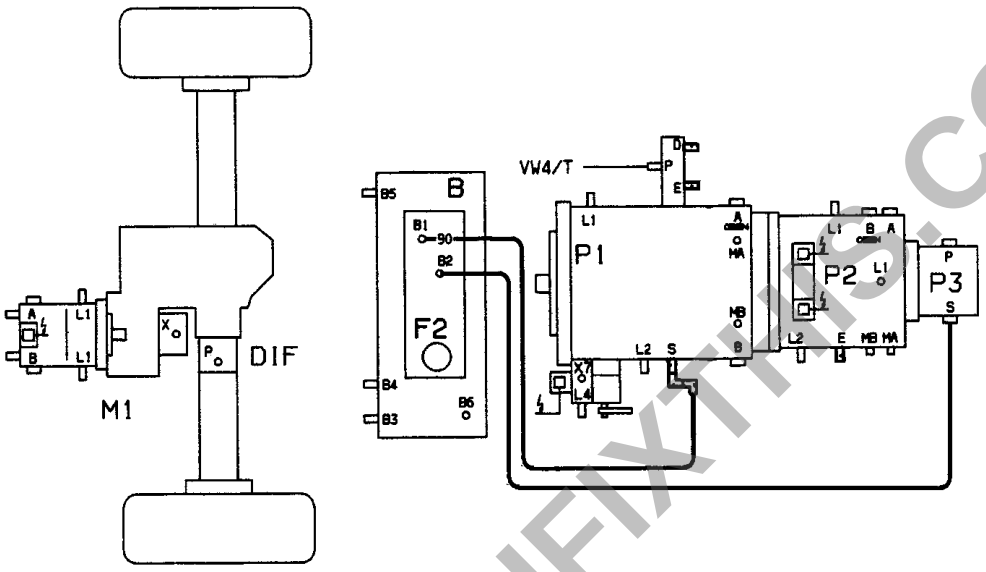
UNDERSTANDING ELECTRICAL SCHEMATICS



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PUMP SUCTION LINES



1105 Pump Suction 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

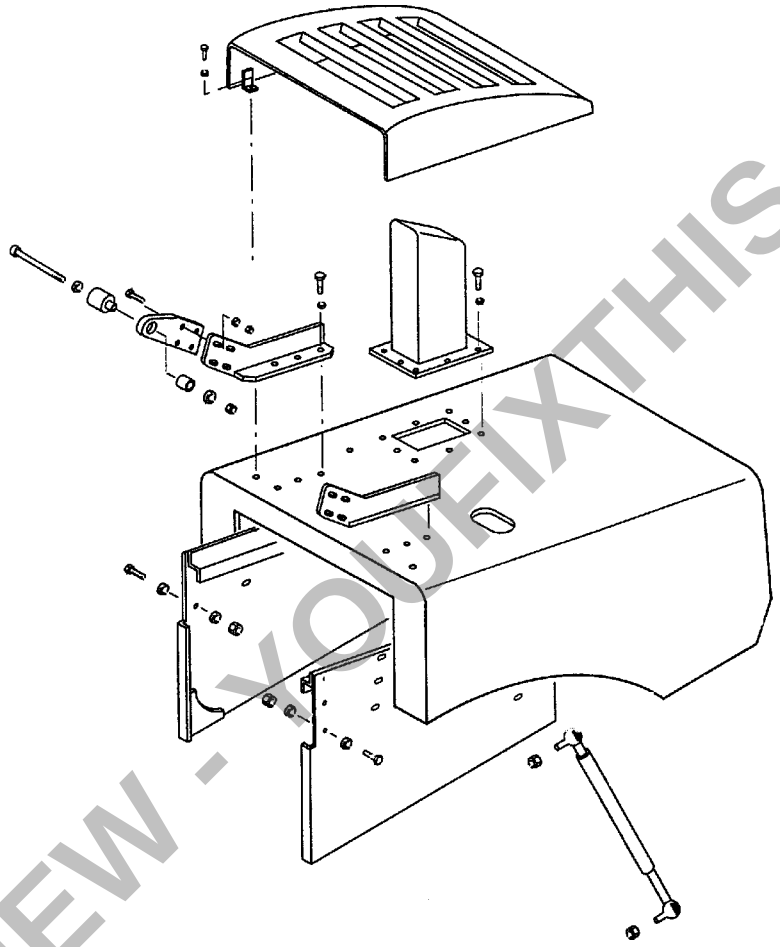
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ENGINE REMOVAL

1. Disconnect the negative battery cable. The battery is located on the operator platform under the seat.

2. Remove the engine compartment hood..



3. Drain the engine cooling system. A drain valve is provided and is located to the rear side of the radiator on the right side of the machine.

4. Drain the engine oil using the fitting provided in the right rear frame behind the tire. After the oil has been drained disconnect the drain hose from the engine oil pan.

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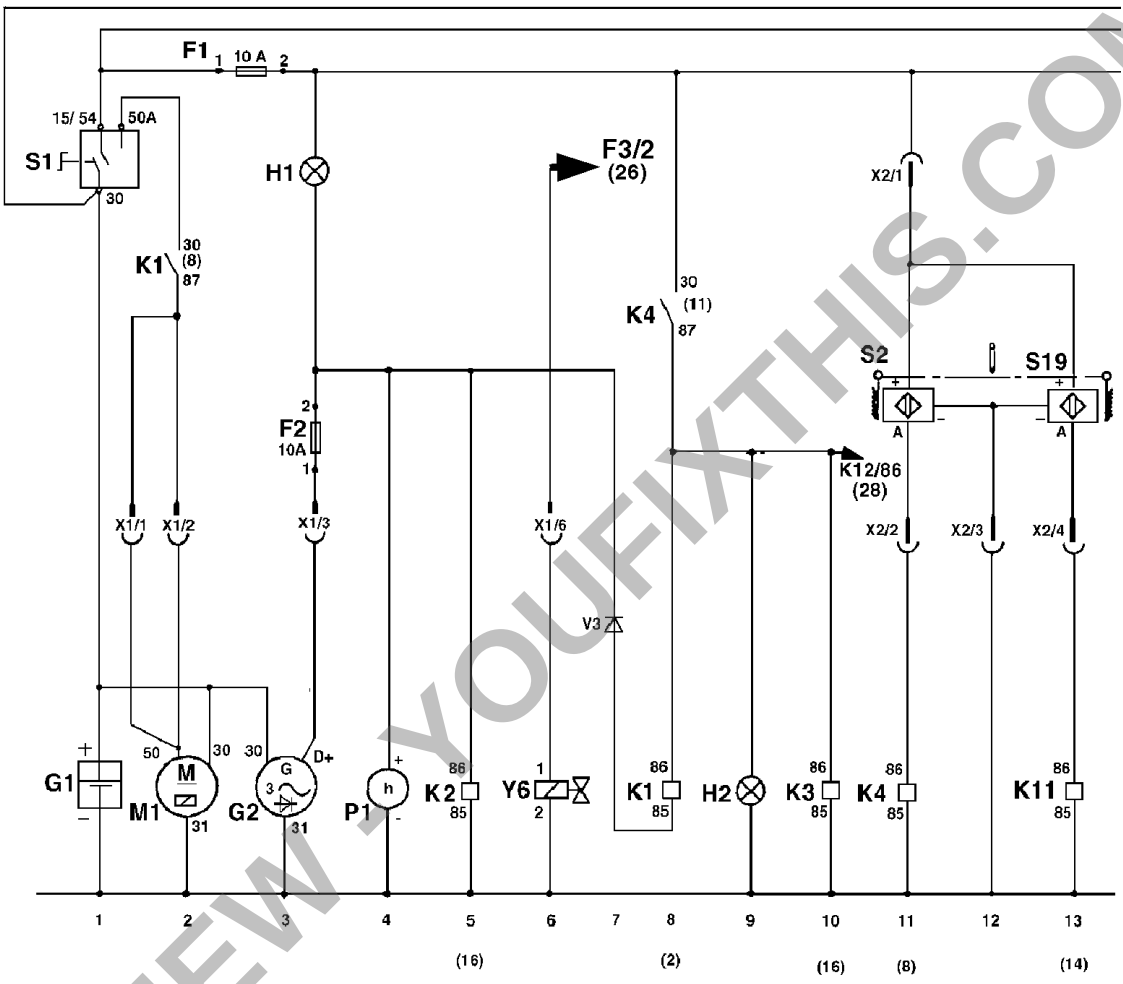
AXLE BRAKE PARTS LIST

item	part number	qty.	description
1	7250/13620	1	brake assembly complete
2	7250/13621	1	cylinder
3	7250/13622	1	piston
4	7250/13623	1	housing
5	7250/13624	10	external plate
6	7250/13625	10	internal plate
7	7250/13626	22	compression springs
9	7250/13627	1	seal ring
10	7250/13628	1	seal ring
17	2506/01415	1	screw plug
19	7250/13629	1	shaft collar

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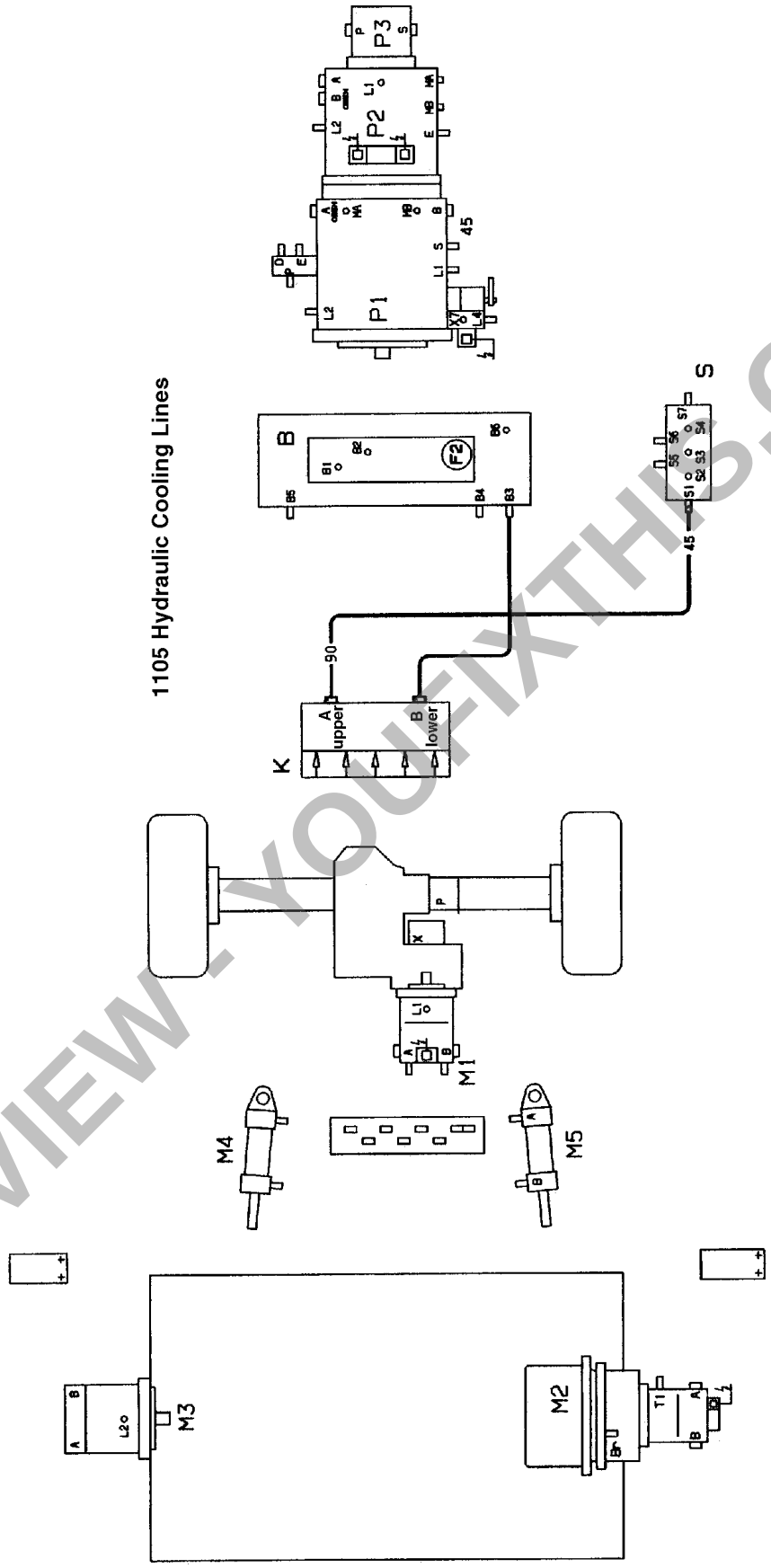
STARTER/ CHARGING CIRCUIT



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HYDRAULIC COOLING 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

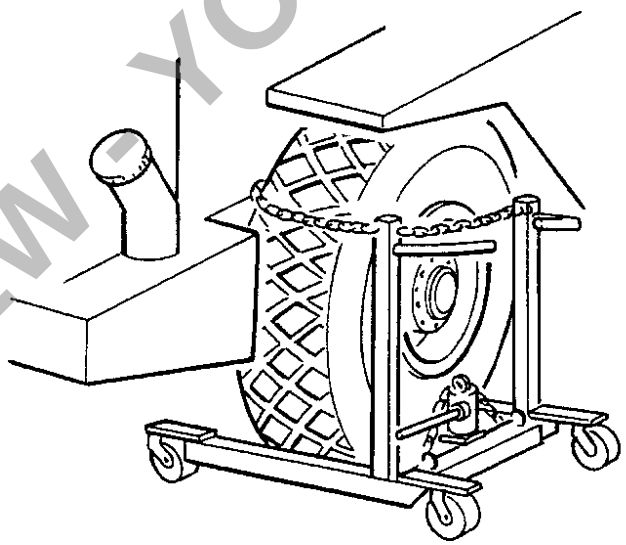
DIAMETER & PITCH	NEWTONS/METER	POUNDS/FOOT
8MM X 1.5	28	21
10MM X 1.5	55	41
12MM X 1.75	90	67
14MM X 2	145	107
16MM X 2	230	170

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REAR AXLE REMOVAL

1. Place the machine on a level surface, lock the articulation joint, and block the front drum.
2. Drain the hydraulic reservoir by removing the drain plug from the bottom of the hydraulic reservoir and catching the oil in a clean container. The hydraulic tank capacity is approximately 18.5 gallons (70 liters). System volume is approximately 29 gal (110 liters).
3. Tag, remove and cap the hydraulic hose for the axle brake.
4. Remove the electrical connector from the axle drive motor two speed valve.
5. Tag, remove, and cap the hydraulic lines from the axle drive motor and differential lock.
6. Loosen the rear wheel lug nuts.
7. Lift the rear of the machine until the rear wheels are clear of the ground.
8. Support the machine rear frame with jack stands.
9. Remove the wheel lug nuts and pull the wheels from the axle.
   CAUTION: tires are liquid filled and approximate weight is 1294 lbs. (587 kg.). Use proper lifting equipment to remove the tires.

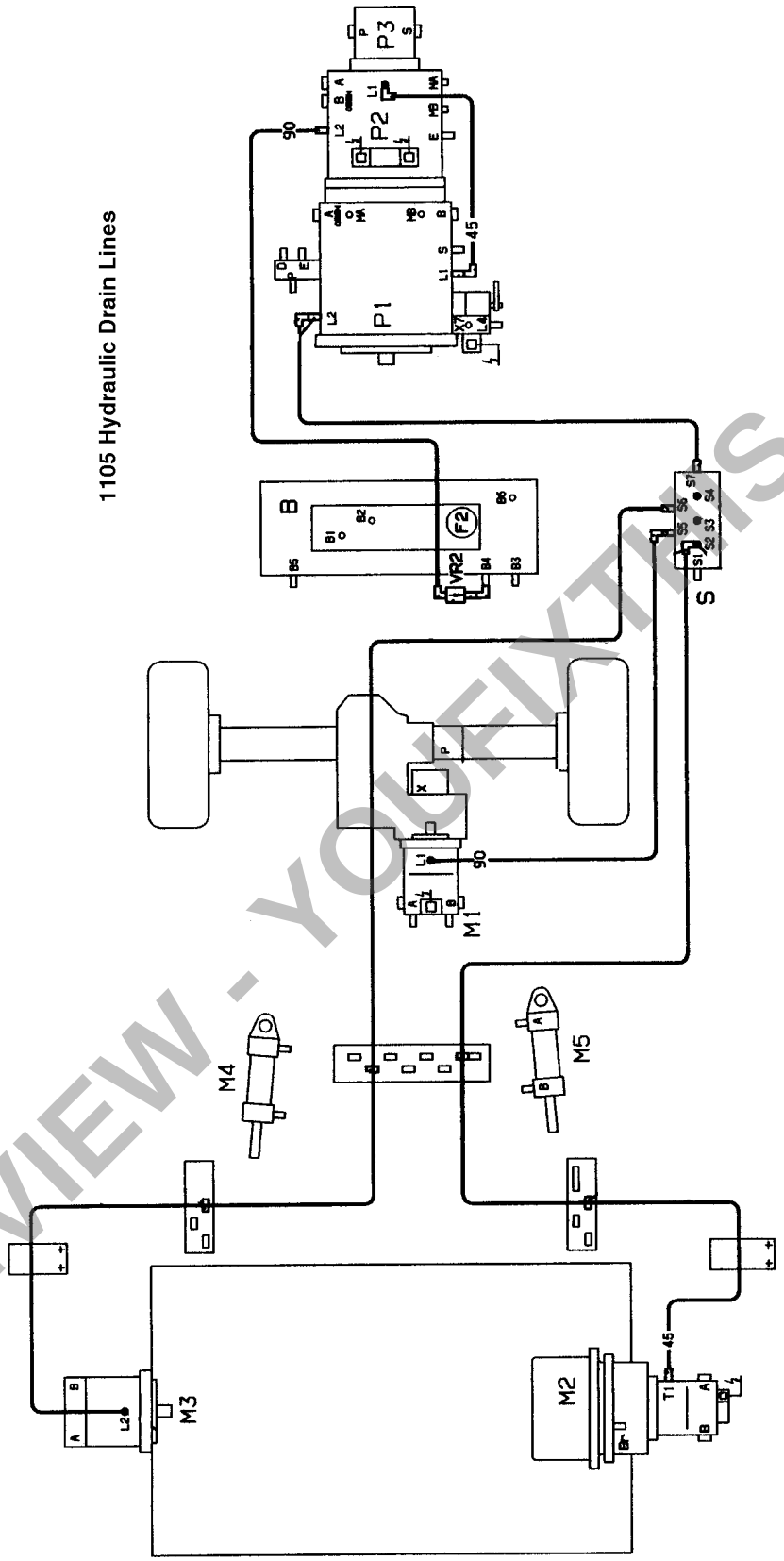


10. Support the axle at the center with a floor jack and remove the axle mounting bolts from both sides of the frame. Lower the axle to the ground.

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HYDRAULIC DRAIN LINES



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PLANETARY DISSASSEMBLY

1. Remove the planetary cover bolts (32) and remove the cover (30).
2. Pull out the axle shaft. The axle shaft gear and bearing can now be removed from the shaft by removal of the retaining ring (29) and supporting ring (26). An external puller is required to remove the bearing (28).
3. Remove the planetary carrier capscrews (14). Use two M12 jacking bolts in the two holes provided in the planetary carrier (22) to loosen and remove the planetary carrier.
4. After removal of the planetary carrier (22), press the planetary gear pins (18) out of the gears (21).
5. Move each planetary gear into the center opening and remove it downward out of the carrier.
6. Remove the two planetary gear thrust washers (17), needle bearing rollers (19), and separating washers (20) from the planetary gears.
7. Returning to the wheel hub and axle tube assembly remove the old o-ring (7) from the wheel hub (6).
8. Remove the locking screw (12) from the large slotted nut (11) which holds the wheel hub to the axle tube (1). Loosen the slotted nut and remove the internal ring gear (16) with the drive gear (10) still installed.
9. Remove the snap rings (9) from the internal gear and remove the drive gear (10).
10. An external gear puller can now be used to remove the tapered roller bearing (8) from the drive gear.
11. Install two 12mm eye bolts into the wheel hub 180 degrees apart. Install a puller into the eye bolts and pull the wheel hub off the axle tube.
12. The bearing cup, bearing cone (5), and seal (4) can now be driven out of the wheel hub.
13. Remove any damaged wheel lug bolts (2) from the hub (6).

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