snorkel

TL34



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PARTS & SERVICE MANUAL

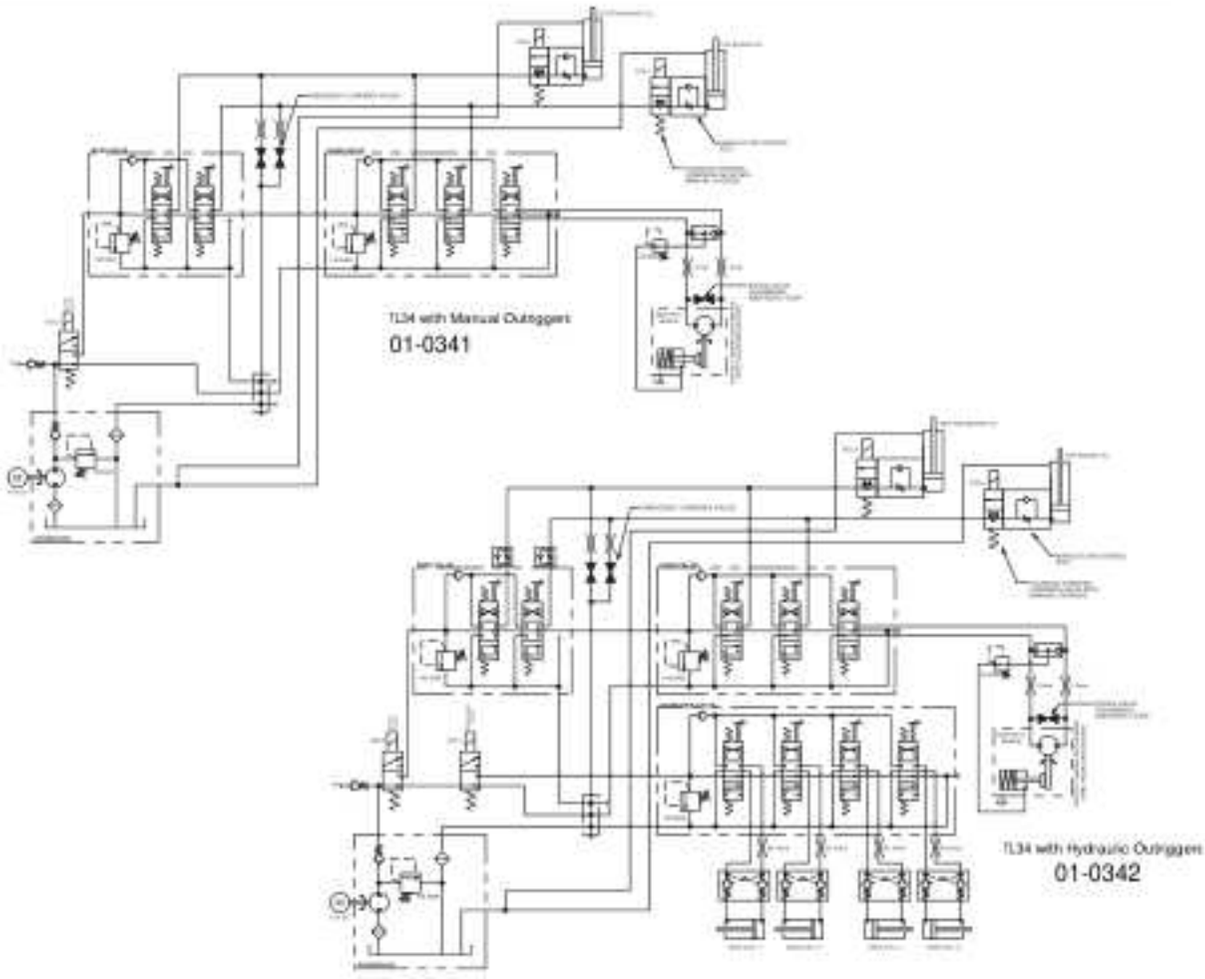
Part Number 513856-200
February 2013

Serial Number: TL34-01-000123 and after

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Item	Part No.	Name	Qty	Uom
1	25-0316	AXLE 1500KG C/W 770M	1	EA
2	REF	BRAKE ASSEMBLY	2	EA
3	25-0322	COMPENSATOR FERRULE	1	EA
4	25-0316-9	COMPENSATOR	1	EA

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Power Pack

Fully integrated pump, tank, preset relief valve and return filter. The biggest cause of hydraulic problems is down to contaminated oil. Change oil and filter at least every 6 months, even though the hydraulic system is a closed system. The only access for external dirt is through the filter breather. You will have contamination due to seal kit wear (black sludge in the bottom of the tank, mechanical wear from the gear pump, valve block and cartridges in addition to water contamination due to tank condensation. See power pack section for more details.

SOL1 (Hydraulic Outriggers Only)

This valve diverts oil from the outrigger control valve first to the ground control valve and then to the basket control valve. Never operate the coil unless it is on the valve cartridge. You risk burning out the coil.

SOL2

This dump valve diverts oil to to the base and cage valves when activated or returns to tank when not.

Base Control Valve

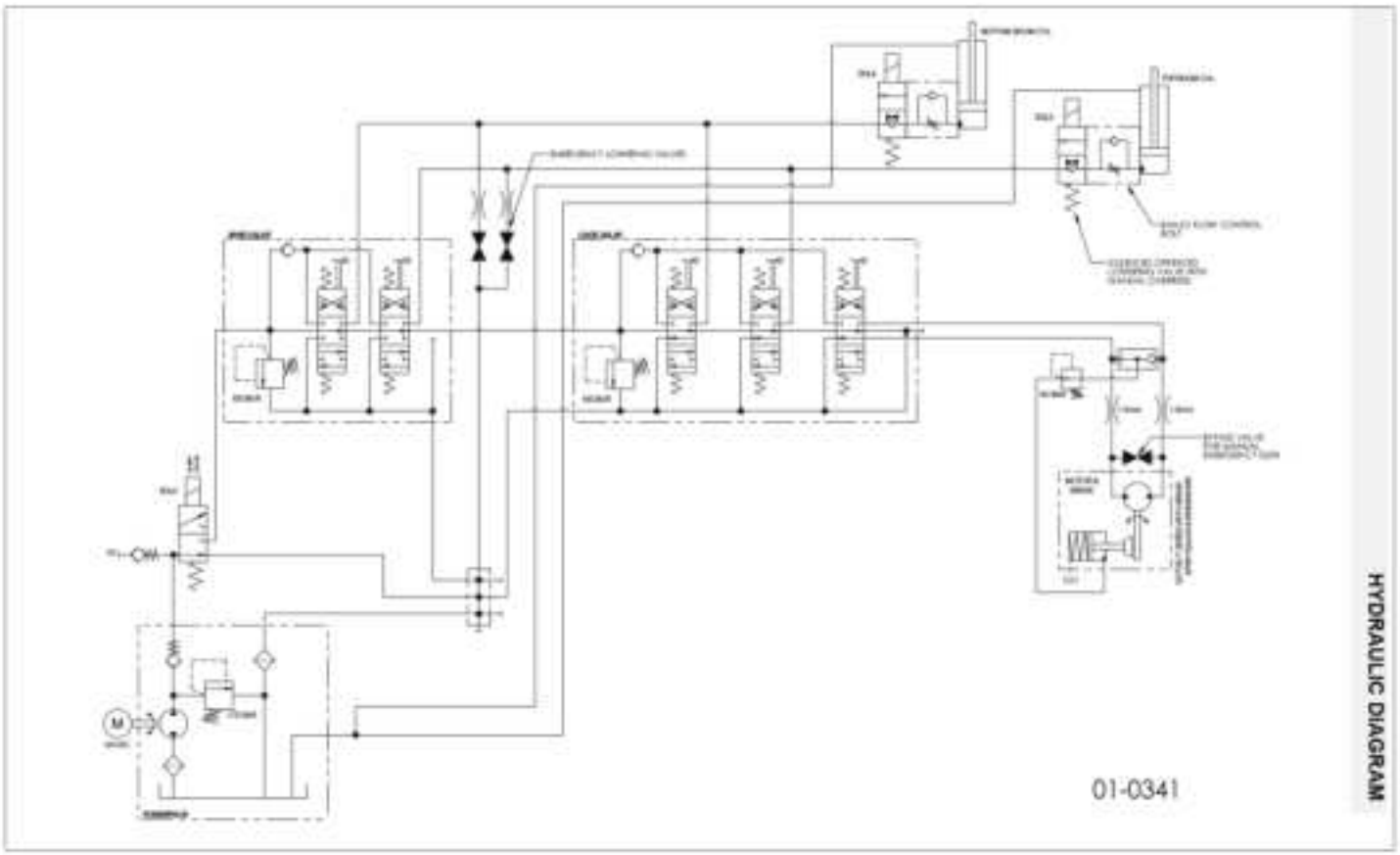
This gives you full control over all functions apart from the basket slew. The adjustable relief valve is set at the factory to approximately 140 bar. It should be set so that when you lift the bottom boom from rest you can just lift the full safe working load (SWL) plus 10%. The centre position is closed to prevent oil back feeding and running back to tank when operating the basket controls.

Slew Motor

The slew motor is bolted directly on the slew platform. Apart from greasing and checking for oil leaks it requires no maintenance.

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SCHEMATICS



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Do not attempt to set up the machine on steep slopes, ramps or soft ground.

3. Manual Outriggers Only: Pull out the outrigger arms and allow the spring bolts to lock thestabilisers into position.

Ensure BOTH spring bolts on each Outrigger arm are fully located.

Wind down the screw jacks and level the machineusing the level gauge mounted on the front of the chassis as a guide.

4. Lower the Outriggers two at a time starting at the tow bar end (No's 3&4) until the jockey wheel just clears the ground.
5. Lower Outriggers 1&2 until the green LED display indicates that they are under load. (*Fig 4*)
6. Repeat this sequence for Outriggers 3&4.

Take EXTREME care NOT to ground either the Basket, or the Jockey Wheel during the next step.

7. By alternating from 1&2 to 3&4, carefully inch down each pair of Outriggers until all four Outriggers are fully deployed, and the wheels are well clear of the ground.
8. Now, by using the Level indicator (*Fig.4*), raise opposite Outriggers until the bubble and indicator ring are concentric (*i.e.*, the bubble rests in the centre).
9. Check that each LED on the Ground Control panel is still illuminated. This indicates that each foot is in firm contact with the supporting surface.

Fig. 4



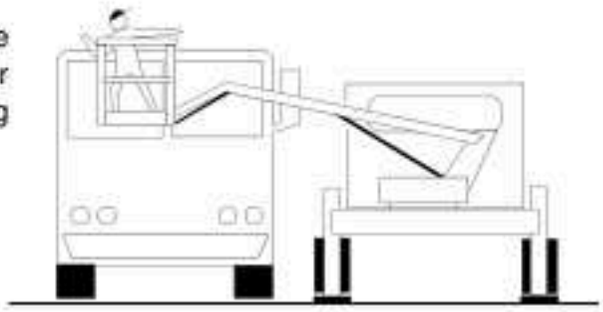
The unit is designed to operate on a supporting surface of minimum bearing strength of 50N/cm².

The maximum outrigger load is 10.3kN.

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8. ***DO NOT*** operate the machine unless all four outriggers are down and in full contact with the ground. The machine must be level and the ***wheels lifted visibly clear of the surface*** before the booms are raised.

9. ***DO NOT*** move the machine with the basket raised and never allow cage or booms to slew into the path of oncoming vehicles.



10. ***DO NOT*** operate the machine if the wind speed exceeds 12.5 m/s. Be aware that, when working near high buildings or structures, shielding and funnelling effects may cause high wind forces on days when the nominal wind speed in the open is low. Wind speed can either be measured from the work platform with a hand held anemometer or estimated using the Beaufort Scale.

BEAUFORT WIND SPEED SCALE

The Beaufort Scale of wind force is acceptedinternationally and is used in communicating weather conditions. It consists of numbers 0 -12, each representing a certain strength of velocity of wind at 10m (33ft.) above ground in the open.

Numbers 10-12 are not shown in this table.

DESCRIPTION OF WIND		SPECIFICATION FOR USE ON LAND	M /Sec
0	CALM	*Calm – smoke rises vertically*	0-0.5
1	LIGHT AIR	*Direction of wind shown by smoke drift but not by wind vanes.*	0.6-1.5
2	LIGHT BREEZE	*Wind felt on faces; leaves rustle; ordinary vanes moved by wind.*	1.6-3.0
3	GENTLE BREEZE	*Leaves and small twigs in constant motion; wind extends light flag.*	3.5-5
4	MODERATE BREEZE	*Raises dust and loose paper; small branches are moved.*	6-8
5	FRESH BREEZE	*Small trees in leaf begin to sway; crested wavelets form on inland waterways.*	9-10
6	STRONG BREEZE	*Large branches in motion; umbrellas used with difficulty.*	11-13
7	NEAR GALE	*Whole trees in motion; inconvenience felt when walking against wind.*	14-17
8	GALE	*Breaks twigs off trees; generally impedes progress.*	18-21
9	STRONG GALE	*Slight structural damage occurs (chimney pots and slates removed)*	22-24

Approximate corrections for wind speeds at other heights are:
2m subtract 30%; 3m subtract 20%; 6m subtract 10%
15m add 10%; 30m add 25%

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