snorkel

TL37J



SERVICE & MAINTENANCE MANUAL

Part Number 1480125-000

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TABLE OF CONTENTS

Section 1 General Information

Component Identification 8
Serial Number Locations 9
Working Envelope 10
Safety Precautions 11
Operator's Manual Procedures 12
Technical Bulletins 12
Wire Code and Function Chart 13
Abbreviations List 14

Section 2 Specifications

General Specifications 18
Surge Brake Coupler 19
Engine Specifications 19
Engine Operated Gear Pump 20
6 Volt Battery 20
12 Volt Battery 20
Battery Charger Specifications 21
Fastener Torque Chart 22
- Standard System 22
- Metric System 23

Section 3 Hydraulic Components

Hydraulic Component Location 26
- Right Side 26
- Left Side 27

Coupler with Surge Brakes 28
- Top View 28
- Bottom View 29

Hydraulic Pump and Coupler 30
Rotation Bearing and Mounting 31
Outriggers 32
- Cylinder 32
- Manifold 33

24 Volt Power Unit and Hydraulic Oil Tank 35
- Power Unit Components 35
- Hydraulic Oil Tank Components 36

Lower and Upper Control Manifold 37
Selector Valve and Diverter Valve 38
Riser Boom Lift Cylinder 39
Main Boom Lift Cylinder 40
Jib Cylinder 41
Platform Rotate Cylinder 42

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Section 4 Electrical Components

Electrical Components 44
Left Side 44
Right Side 46
Outrigger Limit switch 48
Lower Control Box 50
External Components 50
Internal Components 52
Wiring 53
Control Board 54
Can Tilt Cable 56
Battery Charger 57
24 Volt Battery Bank 58
Boom Electrical Components 59
Boom Lift Limit Switch 60
Overload Switch 62
Upper Controls 64
Electrical Panel 64
Upper Control to Lower Control Cable 66
Wiring 67

Section 5 Engine Components

Honda Engine 70

Section 6 Trailer Components

Jockey Wheel 76
Axle 77
Hub and Brake Assembly 78
Brakes 79

Section 7 Outriggers

Outrigger Location 82
Outrigger Components 83

Section 8 Booms

Boom Components 86

Section 9 Platform

Platform Components 90
Upper Controls 92
Components 92

Section 10 Options

Friction Drive 94

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Section 11 Procedures & Adjustments

Recommended Tools 98
Surge Brake Procedures 99
Filling and Bleeding Surge Brake 99
Surge Brake Maintenance 100
Testing Surge Brake Systems 101
Switch Adjustments 102
Outrigger Limit Switch 102
Overload Limit Switch 103
Boom Lift Limit Switch 105
Pressure Adjustments 106
24 Volt System 106
Outriggers 106
Lower Boom Controls Valve 106
Upper Controls Valve 107
Gas Engine System 108
Pump Pressure 108
Outriggers 108
Lower Control Valve 109
Upper Control Valve 109

Section 12 Maintenance

General Maintenance 112
Lubrication Points 114
Battery Care and Maintenance 117
Maintenance Schedule 119
Prestart Inspection Checklist 119
Daily Check 120
Weekly Check 122
Monthly Check 122
6-Month Check 122
Major Repairs 123
Filter Service Intervals 124

Section 13 Schematics

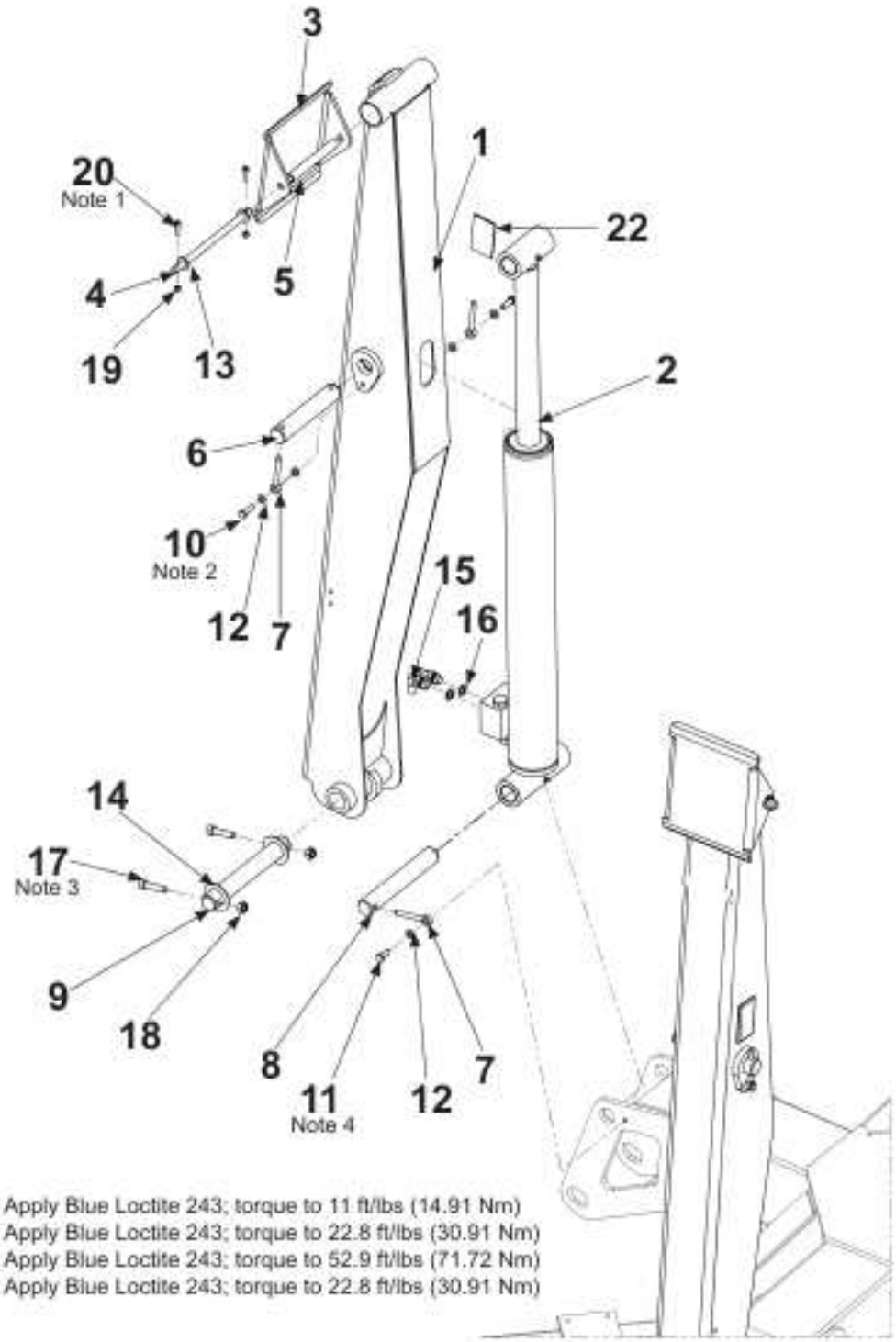
Hydraulic Schematic 126
24 VDC 126
BI-Energy 127
Gas Engine 128
Electric Schematic 129
24 VDC 129
BI-Energy 130
Gas Engine 131

Section 14 Appendix

Appendix A - Glossary 134

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OUTRIGGER COMPONENTS



Note 1: Apply Blue Loctite 243; torque to 11 ft/lbs (14.91 Nm)
Note 2: Apply Blue Loctite 243; torque to 22.8 ft/lbs (30.91 Nm)
Note 3: Apply Blue Loctite 243; torque to 52.9 ft/lbs (71.72 Nm)
Note 4: Apply Blue Loctite 243; torque to 22.8 ft/lbs (30.91 Nm)

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LUBRICATION POINTS

General Grease Points
Regular greasing greatly improves the service life of the bushes and also removes any moisture which may cause internal corrosion on the wall of the bosses making it difficult to remove the pivot shafts for inspection.

Lubrication Specifications
It is recommended that only premium quality grease is used. Lithium based grease offer very good performance. For the rotation bearing, the **RENOLIT ARMNA G4789** from Fuchs offers extremely good lubrication and anti corrosion properties especially at very low temperatures -7°/-22°F (-22°/-30°C).

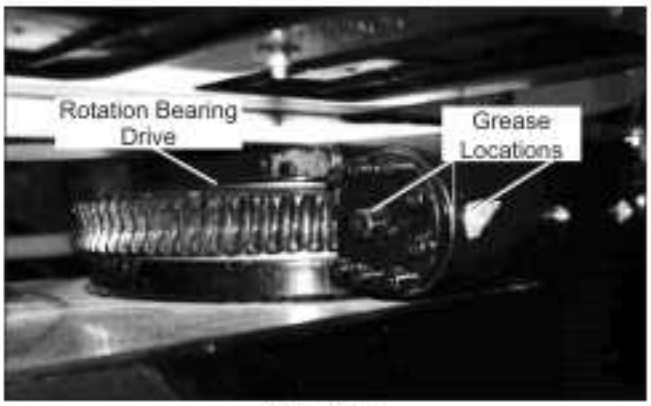


Figure 1
Location of Rotation Bearing and Grease Locations

Rotation Bearing
To grease the rotation bearing, the machine needs to be set up and rotate around to gain access to the reassessed grease fitting fitted to the top face of the rotation bearing.

When greasing the worm housing, take care not to push out the oil seal on the end face. If you do, remove excess grease from the end and drive the seal back in. Refer to the rotation bearing section for more details.

Rotation Bearing Gears
The rotation bearing gear is designed to be largely maintenance free. However, it is recommended that the gear teeth be greased on a weekly/monthly basis with a high pressure grease depending on operation conditions. Always clean the gear first to remove any road dirt and grime. In very dusty or sandy conditions, take care to prevent a build up of grit/sand mixed with grease which may cause premature wear on the gear.

Additionally, the ring gear and gear box should be greased on a six monthly basis. The grease fitting for the ring gear is on the top face of the rotation bearing gear set between the fixing bolts. It can be accessed by lifting one of the side covers and rotating the structure appropriately.

The ring gear should be inspected on a six monthly basis for excessive wear. It is unlikely there will be any wear if the machine is maintained correctly.

To check the gear, place a payload of approximately 176 lbs/80 kg on the platform. Elevate the lower boom to approximately half way. Then, gently elevate the top boom whilst observing the ring gear. Excessive wear will be observed by noticing more than 0.5 mm movement between the inner and outer bearing rings. If excessive wear is present, the gear ring should be replaced.

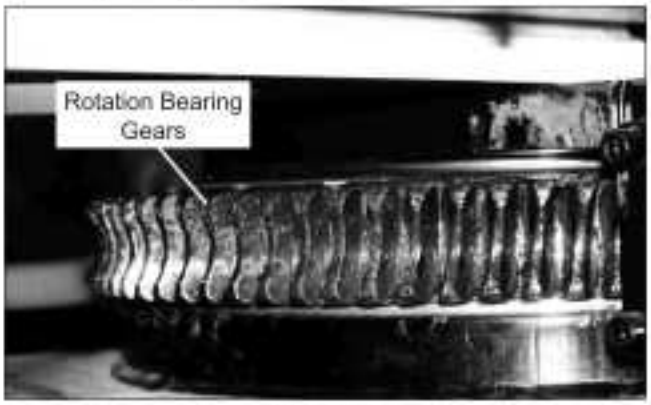


Figure 2
Location of the Rotation Bearing Gears

Rotation Bearing Stop
The rotation bearing stop mechanism is fully lubricated and should normally not require any further lubrication. Should more lubrication be needed, this can be done in two ways;

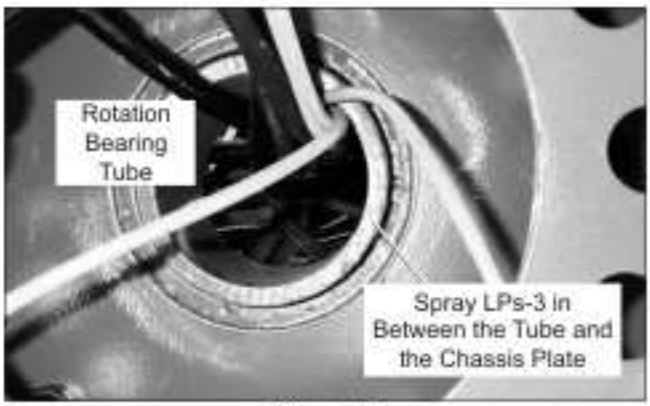


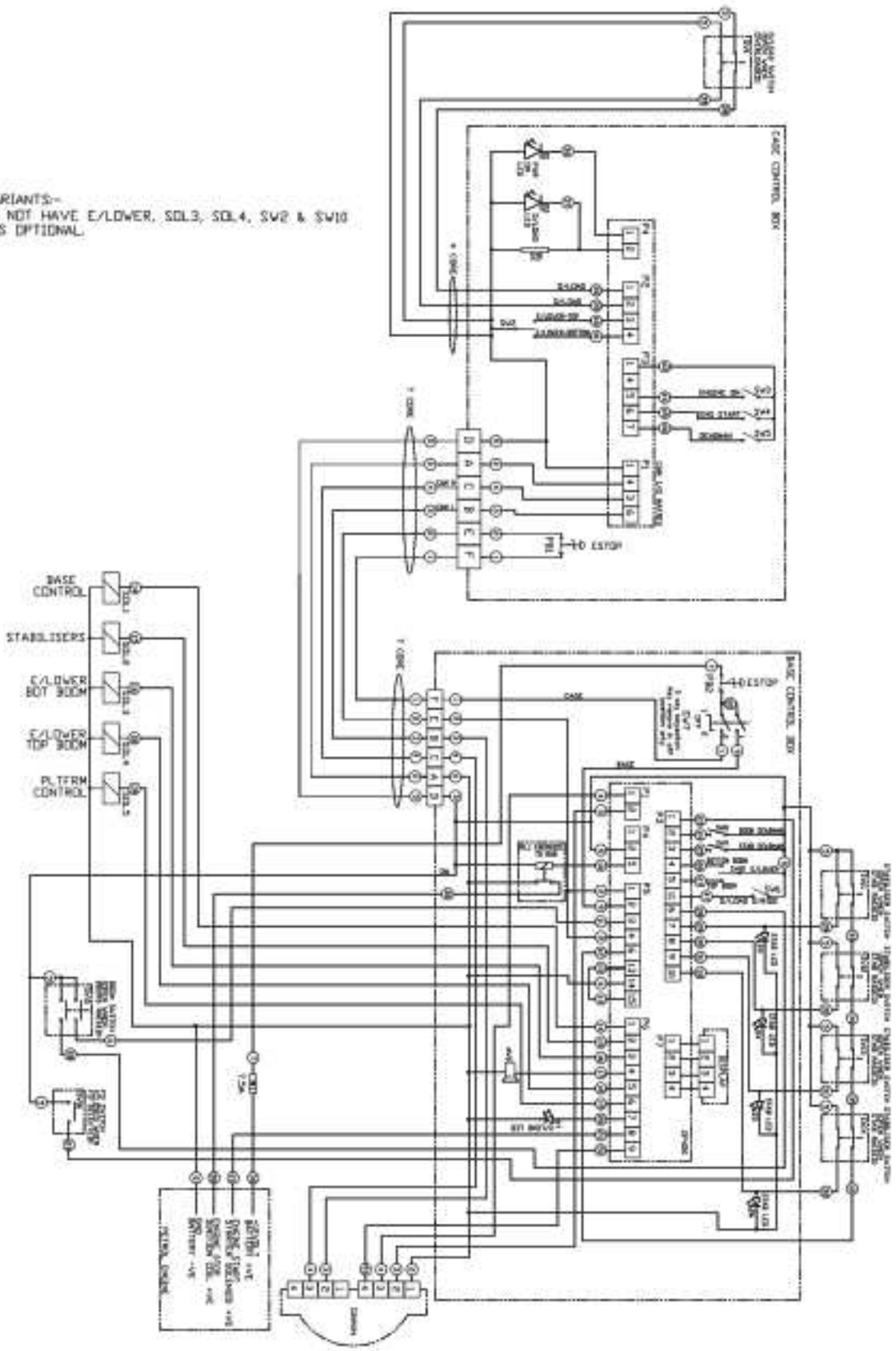
Figure 3
Lubrication Area

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ELECTRIC SCHEMATIC

Gas Engine

NOTES ON VARIANTS:-
1. TL37 DOES NOT HAVE E/LOWER, SOL3, SOL4, SW2 & SW10
2. SW16 F3 IS OPTIONAL



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