SL26SL SL30SL PARTS MANUAL

GENERAL INFORMATION

INTRODUCTION	1-1
OPERATIONS & SPECIFICATIONS	1-2
TROUBLESHOOTING	1-3

REPAIR PARTS

GENERAL ASSEMBLY SL30SL	
GENERAL ASSEMBLY SL26SL	
HYDRAULIC HOSE ASSEMBLY	
HYDRAULIC HOSE ASSEMBLY	
HYDRAULIC HOSE ASSEMBLY	
CHASSIS ASSY SL26/30SL	
LOWER CONTROL PANEL ASSEMBLY - CE	2-7
STEER, AXLE FLOAT & TILT CYLINDER	
CONTROL MODULE ASSEMBLY	2-9
ENGINE ASSEMBLY - KUBOTA D902	
ENGINE CABINET ASSEMBLY	2-11
FUEL TANK ASSEMBLY - DIESEL	
HYDRAULIC VALVE BLOCK MOVEMENT	2-13
HYDRAULIC VALVE BLOCK DRIVE	2-14
HYDRAULIC OIL TANK ASSEMBLY	
ELEVATING ASSEMBLY SL26SL	2-16
ELEVATING ASSEMBLY SL30SL	2-17
HYDRAULIC CYLINDER ASSEMBLY - MAIN LIFT	
ELECTRICAL ASSEMBLY	
LOWER CONTROL PANEL ASSEMBLY - ANSI	2-20
CABLE HARNESS SCHEMATIC	
PLATFORM ASSEMBLY - SL30SL	
PLATFORM ASSEMBLY SL26SL	2-23
PLATFORM ASSEMBLY - SLIDE OUT SECTION	
UPPER CONTROL PANEL ASSEMBLY - CE	
UPPER CONTROL PANEL ASSEMBLY - ANSI	2-26
UPPER CONTROL PANEL ASSEMBLY SL30- ADDITIONS	2-27
UPPER CONTROL PANEL ASSEMBLY SL26 - ADDITIONS	2-28
DECAL KIT SL26SL - ENGLISH	2-29
DECAL KIT SL30SL - ENGLISH	2-30
MAINTENANCE	
SERVICE & REPAIR	3_1
	····· J-1
SCHEMATICS	
SCHEMATICS	
OPTIONS	
TUNNEL OPTION	5-1

TUNNEL OPTION	. 5-1
Removable Upper Control Box SL	. 5-2

ТОЖ НІТСН	. 5-3
BLOCKHEATER	
Α	A
Β	B



Œ

PARTS & SERVICES MANUAL

Serial Number SL26RTE and after Serial Number SL30RTE and after Part Number 516123-200E OCT 2019

SL26/30ERT SERVICE AND PARTS MANUAL

FOREWORD

This manual is divided into six sections namely;

SECTION 1: INTRODUCTION

General description and machine specifications.

SECTION 2: OPERATION AND SPECIFICATION

See seperate Operators Manual.

SECTION 3: SERVICE AND REPAIR

Preventative maintenance and service information.

SECTION 4: TROUBLESHOOTING

Causes and solutions to typical problems.

SECTION 5: SCHEMATICS

Schematics and valve block diagrams with description and location of components.

SECTION 6: ILLUSTRATED PARTS BREAKDOWN

Complete parts list with illustrations.

SPECIAL INFORMATION



NOTE: Provides helpful information.

WORKSHOP PROCEDURES

All information contained in this manual is based on the latest product information available at the time of printing. We reserve the right to make changes at any time without notice.

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INTRODUCTION

INTRODUCTION

PURPOSE

The purpose of this service and parts manual is to provide instructions and illustrations for the operation and maintenance of this work platform manufactured by Snorkel.

SCOPE

The manual includes procedures for proper operation, maintenance, adjustment and repair of this product as well as recommended maintenance schedules and troubleshooting.

GENERAL DESCRIPTION

The work platform consists of the platform, controller, elevating assembly, power module, control module and chassis.



PLATFORM

The platform has a reinforced steel floor, 1.1 m (43.5 inches) high guardrails with a mid rail, 152 mm (6 inches) toe boards and an entry gate at the rear of the platform. The guardrails can be folded down for transportation purposes.

Features of the SL26/SL30ERT is shown in Figure 1-1.

- Platform 1.
- Platform controller a
 Elevating assembly
 Power module
 Control module Platform controller assembly

- 6. Chassis

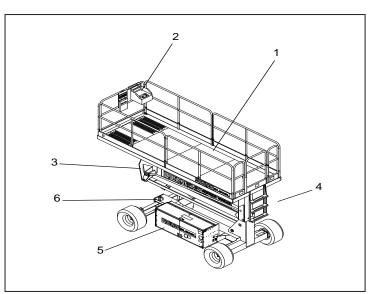


Figure 1-1: Work platform

INTRODUCTION

PLATFORM CONTROLLER

The platform controller contains the controls to operate the machine. It is located at the front of the platform. A complete explanations of control functions can be found in section 2.

ELEVATING ASSEMBLY

The platform is raised and lowered by the elevating assembly. The hydraulic pump driven by the engine, powers the cylinders. Solenoid operated valves control raising and lowering.

CHASSIS

The chassis is a structural frame that supports all the components of the SL26/30SL work platform.

PURPOSE OF EQUIPMENT

The objective of the work platform is to provide a quickly deployable, self propelled, variable height work platform to elevate personnel and materials to overhead work areas.

SPECIAL LIMITATIONS

Travel with the platform raised is limited to a creep speed range.

Elevating of the work platform is limited to firm, even surfaces only. The auto level feature is designed to level the platform in a situation where the ground has no more than a 13 degree slope side to side and 9 degrees front to back. If the platform is not level to within 2 degrees, a warning alarm will sound and platform elevation above approximately 1 m will be disabled.



OPERATION AND SPECIFICATION

SL26/30SL Series

ENGLISH

When contacting Snorkel for service or parts information, be sure to include the model and serial numbers from the equipment name plate. Should the name plate be missing, the serial number is also stamped on top of the chassis above the front axle pivot.

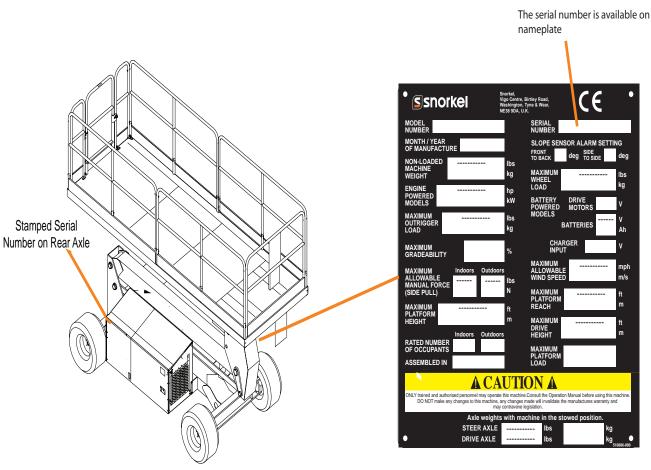


Figure 2-1: Serial number location on SL26/30SL

USA

TEL: +1 (559)443 6600 FAX: +1 (559)268 2433

Europe

TEL: +44 (0) 1952 200 FAX: +44 (0) 1952 229

www.snorkellifts.com

SAFETY RULES

WARNING

All personnel shall carefully read, understand and follow all safety rules and operating instructions before operating or performing maintenance on any SNORKEL aerial work platform.



USE OF THE AERIAL WORK PLATFORM: This aerial work platform is intended to lift a person or persons and their tools including material needed for a job. The work platform is designed to be used for repair and assembly jobs ONLY at overhead work places (ceilings, cranes, roof structures, buildings, etc.).

The use and operation of the aerial work platform as a lifting tool or a crane is prohibited!

Climbing up the railing of the platform, standing on or stepping from the platform unto buildings, steel or prefab concrete structures etc is **prohibited!**

NEVER use the machine if damaged, not functioning properly, has damaged or missing decals.

NEVER attach notice boards etc. to the platform as this will increase the wind loading.

- INSULATION: The aerial work platform is not insulated. It is imperative to keep a safe distance from live parts or electrical equipment. DO NOT get closer than the minimum distance recommended by the "National Regulations".
- PLATFORM CAPACITY: Exceeding the specified permissible maximum load is prohibited! Refer to platform capacity on page 24 for details.
- > MANUAL FORCE: NEVER exceed the manual force allowed for this machine. Refer to special limitations on page 9 for details.
- > LOAD DISTRIBUTION: Ensure that all loads are distributed evenly on the platform.
- SURVEILLANCE: NEVER operate the machine without first surveying the work area for surface hazards such as holes, drop-offs, bumps, curbs or debris and avoiding them.
- > WHEEL LOAD: OPERATE the machine only on surfaces capable of supporting wheel load.
- WIND SPEED: NEVER operate the machine when the wind speed exceeds the machine's wind speed rating. Refer to the Beaufort scale for details.
- > EMERGENCY STOP: In case of an emergency, push the EMERGENCY STOP switch to de-activate all powered functions.
- ALARM: If the alarm sounds while the platform is elevated, STOP operation immediately and carefully lower the platform. Move the machine to a firm, level surface.
- SWING GATE: Dismantling the entry gate or other railing components is prohibited! Always make certain that the entry gate is closed and securely locked.

It is prohibited to keep the entry gate in an open position when the platform is raised.

Extending the height of the platform by placing ladders, scaffolds or similar devices on the platform is prohibited!

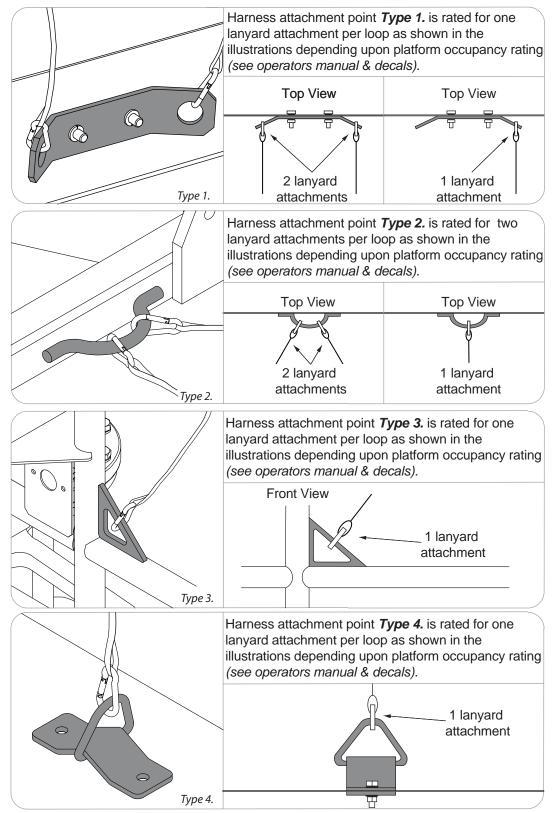
- SERVICING: NEVER perform service on machine while platform is elevated without blocking the elevating assembly. Refer to "maintenance" for details.
- INSPECT: the machine thoroughly for cracked welds, loose or missing hardware, hydraulic leaks, loose wire connections and damaged cables or hoses before usage.
- > DECALS: VERIFY that all labels are in place and legible before using the machine.
- > BATTERIES: NEVER charge batteries near sparks or open flame. Charging batteries emit explosive hydrogen gas.
- > STORAGE: AFTER USE, secure the work platform from unauthorised use by turning the key switch off and removing the key.
- HARNESS: Harness attachment points are provided on the platform and the manufacturer recommends the usage of a fall restraint harness especially where required by national safety regulations.

Modifications to the aerial work platform are prohibited or permissible only at the approval of the manufacturer.

ENVIRONMENTAL TEMPERATURE LIMITATION: The machine is primarily for use in normal ambient temperatures and conditions ranging between 50C to -20C Harness attachment points are provided in the platform and the manufacturer recommends the usage of a fall restraint harness, especially where required by national safety regulations.

All harness attachment points on SNORKEL vehicles have been tested with a force of 3,650 lbs (16.3 KN) per person.

See below examples of harness attachment points used on SNORKEL vehicles with their corrosponding rating;



NOTE: There can be more harness attachment points per machine than the maximum number of occupants allowed in a platform. Refer to the platform decal & specifications table listed in the operators manual for the correct occupancy rating before use.

SAFETY NOTICE

NOTE:

- 1. To bypass any safety equipment is **prohibited** and presents a danger for the person/persons on the aerial work platform and in its working range.
- 2. Modification to the aerial work platform is prohibited or permissible only at the approval of Snorkel.
- The driving of MEWP'S on the public highway is subject to national traffic regulations.
 It is important to ensure that the machine meets the requirements of stability during use, transportation, assembly, dismantling when out of service, testing or foreseeable breakdowns. 5. Never use a machine that is damaged or not functioning properly. Verify that all labels are in
- place and legible before using.

CONTENTS

INTRODUCTION	2-6
GENERAL DESCRIPTION	2-6
SPECIAL LIMITATIONS	2-7
SPECIAL LIMITATIONS	2-7
PLATFORM CAPACITY	2-7
MANUAL FORCE	2-7
BEAUFORT SCALE	2-7
LIFT OVERLOAD ALARM	2-8
CONTROLS/PRE-OPERATION PLATFORM CONTROLS AND INDICATORS CHASSIS CONTROLS AND INDICATORS PRE-OPERATION SAFETY INSPECTION SYSTEM FUNCTION INSPECTION	2-9 2-9 2-10 2-11
OPERATION STARTING THE MACHINE STEERING ELEVATING THE PLATFORM LOWERING THE PLATFORM TRAVEL WITH THE PLATFORM LOWERED TRAVEL WITH THE PLATFORM ELEVATED LEVELLING THE PLATFORM HOUR METER PLATFORM EXTENSION (SL26 SPEED LEVEL ONLY) PLATFORM RETRACTION(SL26 SPEED LEVEL ONLY) FOLD DOWN GUARDRAILS FOLD DOWN PROCEDURE UNFOLD PROCEDURE	2-12 2-12 2-12 2-12 2-12 2-13 2-13 2-13 2-13
EMERGENCY PROCEDURE	2-16
TOWING OR WINCHING	2-16
BRAKE RELEASE PUMP	2-16
EMERGENCY LOWERING	2-17
TRANSPORTATION	2-18
PREPARATION FOR SHIPMENT	2-18
LIFTING BY CRANE	2-18
DRIVING OR WINCHING ONTO A TRACK OR TRAILER	2-18
AFTER USE EACH DAY	2-18
MAINTENANCE	2-19
BLOCKING THE ELEVATING ASSEMBLY	2-19
INSTALLATION	2-19
REMOVAL	2-19
BATTERY MAINTENANCE (FOR MAINTENANCE BATTERIES ONLY)	2-19
BATTERY CHARGING	2-19
INSPECTION AND MAINTENANCE	2-20
ENGINE MAINTENANCE	2-20
DAILY PREVENTATIVE MAINTENANCE SCHEDULE	2-21
SPECIFICATIONS	2-22
SPECIFICATIONS	2-23
WASTE REMOVAL AND DISPOSAL	2-24

INTRODUCTION

INTRODUCTION

This manual covers the operation of the SL26/30 Speed level series Self-Propelled Work Platforms. This manual must be stored on the machine at all times.

GENERAL DESCRIPTION

- 1. Platform
- Elevating Assembly
 Chassis
- 4. Power Module
- 5. Control Module
- 6. Platform Controls
- 7. Manual Case
- Chassis Controls
 Hydraulic Fluid Reservoir

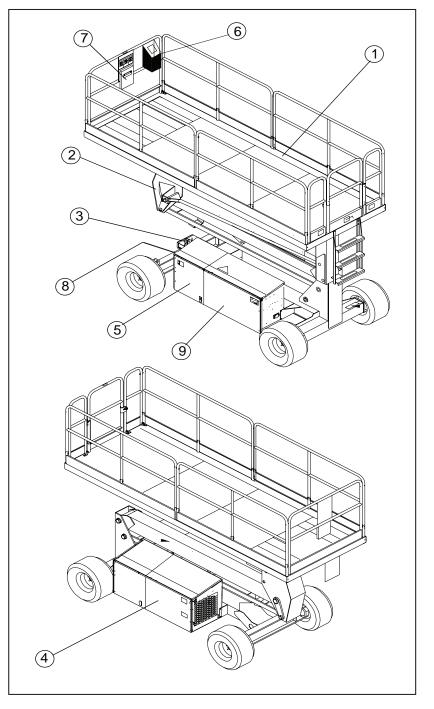


Figure 2-2: SL26/30 SL series

SPECIAL LIMITATIONS

Travel with platform raised is limited to a maximum speed of 0.8 km/h (0.5 mph). Elevating the work platform is limited to firm surfaces only.



PLATFORM CAPACITY

The platform capacity for the machine including occupants is determined by model and options. This is listed under "specifications" on page 24.



MANUAL FORCE

Manual force is the force applied by the occupants to objects such as walls or other structures outside the work platform. The maximum allowable manual force is limited to 200 N (45 lbs.) of force per occupant with a maximum of 400 N (90 lbs.) for two or more occupants.



BEAUFORT SCALE

Beaufort Scale	m/Sec	Ground Conditions
3	3.5-5	Leaves and small twigs in constant motion; wind extends light flag.
4	6-8	Raises dust and loose paper; small branches are moved
5	9-10	Small trees in leaf begin to sway; crested wavelets on inland waterways.
6	11-13	Large branches in motion; umbrellas used with difficulty.
7	14-17	Whole trees in motion; inconvenience felt when walking against wind.
8	18-21	Breaks twigs off trees; generally impedes progress.
9	22-24	Slight structural damage occurs (chimney pots and slates removed)

Table 2-1: Beaufort scale

Never operate the machine when wind speed exceeds 12.5 m/s (28 mph) as indicated on the Beaufort scale.

SL26/30SL

SPECIAL LIMITATIONS

LIFT OVERLOAD ALARM

If a load equivalent to 100% of safe working load is lifted, the overload LED's on the platform and ground control box will illuminate. However, If a load which is greater than the safe working load is placed on the platform, all machine functions will cease to operate and a warning alarm will sound.

To operate the machine, a load equal to or less than the safe working load must be placed on the platform. To re-start the machine functions, push down the emergency stop button to re-set and then release it to restore power.



CONTROLS/PRE-OPERATION

PLATFORM CONTROLS AND INDICATORS

- Emergency stop button
 Horn button
 OFF/ON Engine start switch
- 4. Glow plug button
- 5. Engine warning LED
 6. Low speed drive switch
 7. Low speed drive enabled LED
- 8. Medium speed drive switch Medium speed drive enabled LED 9.
- 10. High speed drive switch 11. High speed drive enabled LED
- 12. Lift/Lower Switch
- 13. Lift/Lower enabled LED
- 14. Auto level switch
- 15. Platform tilt-steady red
- axle tilt flashing red
- 16. Overload LED
- 17. Joystick

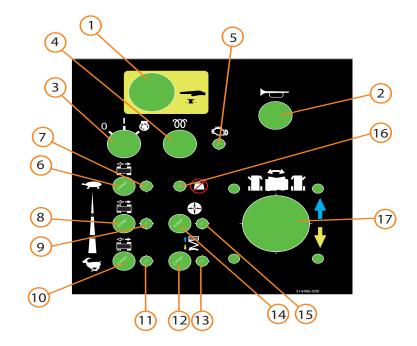


Figure 2-3: Platform controls and indicator locations

CHASSIS CONTROLS AND INDICATORS

- Emergency stop button Overload LED 1.
- 2.
- 3. Keyswitch: Platform/OFF/Chassis
- 4. Lift/Lower Switch
- 5. Enable Switch
- Engine start button 6.
- Glow plug button 7.
- 8. Display

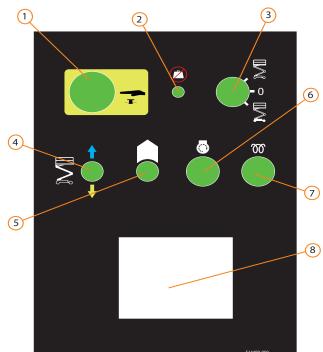


Figure 2-4: Chassis controls and indicator locations

CONTROLS/PRE-OPERATION

PRE-OPERATION SAFETY INSPECTION

NOTE: Carefully read, understand and follow all safety rules, operating instructions, labels and National Safety Instructions/Requirements. Perform the following steps each day before use.

- 1. Open modules and inspect for damage, fluid leaks or missing parts.
- Check the level of the hydraulic fluid with the platform fully lowered.
 - The hydraulic reservoir is located in the control module.
 - The fluid level must be between the minimum and maximum lines.
- Add hydraulic fluid if necessary.
 Check that the fluid level in the starter
- battery is correct.
 4. ➤ Check the level of the diesel fuel with the engine switched off.
 - The fuel tank is located in the power module.
 - > Add fuel as required.
- Check that all guard rails are in place and all fasteners are properly tightened.
- Inspect the machine thoroughly for cracked welds and structural damage, loose or missing hardware, hydraulic leaks, damaged control cables, loose wire connections and wheel bolts.



Figure 2-5: Hydraulic tank

NOTE: Check decal located on tank for Hydraulic fluid Specifications (refer to figure 2-5). Adding fluids of a different specification may cause operational problems.



To make the best use of power and performance from the engine, it is important to use fuel of the correct quality. The recommended fuel for the SL machines is diesel fuel with a minimum Cetane number of 45.

Refer to specifications on page 2-22 for suitable fuel information.

SYSTEMFUNCTIONINSPECTION

Refer to figure 2-3 and 2-4 on page 2-9 for the locations of various controls and indicators.



- 1. If necessary, move the machine to an unobstructed area to allow for full elevation.
- 2. Switch the battery isolator ON.
- 3. Twist the chassis emergency stop switch to the ON position.
- 4. Twist the platform emergency stop switch to the ON position,
- 5. Visually inspect;
 - > The elevating assembly
 - Lift cylinders
 - Cables and hoses for cracked welds and structural damage
 - Loose hardware
 - > Hydraulic leaks, loose wire connections and erratic operation.
 - Check for missing or loose parts.
- 6. Turn the key switch to the chassis control position
- 7. Start the engine by pressing the engine start button.

NOTE: If the engine is cold, you may need to press the glow plug button for a few seconds before starting the engine.

- 8. Raise and hold the enable toggle switch and then raise and hold the lift/lower switch to fully elevate the platform.
- 9. Partially lower the platform by raising the enable switch and lowering the lift/lower switch.
- Open the Emergency lowering valve (refer to figure 2-8) by pulling the knob out to check for proper operation. When the platform is lowered, release the knob.
 Push the chassis emergency stop switch to check for proper operation. All machine functions
- should be disabled. Twist the chassis emergency stop switch to resume.
- 12. Check that the route is clear of obstacles (person's, obstructions, holes and drop-offs, bumps and debris), is level and capable of supporting the wheel loads.
- 13. Turn keyswitch to upper control position.
- 14. Mount the platform and properly close the entrance.
- 15. Start the engine from the platform controls.
- 16. Select low speed drive mode.

NOTE: Use both high and low drive (if applicable) when performing the following steps.

- 17. While engaging the safety interlock trigger, move the joystick forward then reverse to check for speed control.
- 18. Push the steering switch right then left to check for steering control.
- 19. Repeat for medium and high speed drive.
- 20. Select LIFT mode. Grasp the joystick engaging the safety interlock trigger and push it forward to check platform lift controls. Raise the platform to full elevation.
- 21. Pull back on the joystick. The platform should descend and the audible lowering alarm should sound.
- 22. Push the platform emergency stop switch to check for proper operation. All machine functions should be disabled. Pull out the platform emergency stop switch to resume.

OPERATION

Before operating the work platform, ensure that the pre-operation safety inspection has been completed and that any deficiencies have been corrected. Never operate a damaged or malfunctioning machine. The operator must be thoroughly trained on this machine.

STARTING THE MACHINE

- 1. Turn the key switch to the platform position.
- 2. Mount the platform and properly close the entrance.
- If the engine is cold, press down and hold the "glow plug button" for approximately 5 seconds. 3.
- 4. Select engine start and hold until the engine is running.

STEERING

NOTE: Steering is not automatically centred. wheels must be returned to straight ahead position by operating the steering switch.

- 1. Select a DRIVE mode.
- 2. > While engaging the safety interlock trigger, push the steering switch to right or left to turn the wheels in the desired direction.
 - Observe the tyres while manoeuvring the machine to ensure it moves in the correct direction.

ELEVATING THE PLATFORM

NOTE: If the chassis inclination limit is exceeded and the platform is elevated above approximately 2 m (6 ft), the tilt alarm will sound and the machine will not lift or drive. If the tilt alarm sounds, the platform must first be fully lowered and then approximately elevated to 600 mm (2 ft). Press and hold the auto level switch and then engage the safety interlock trigger until the tilt LED extinguishes. If the platform is not levelled correctly, the tilt alarm will continue to sound and the lift functions will be cut off.

- 1. Check clearances below and to the sides of the platform.
- Select lift mode.
 While engaging the safety interlock trigger, push the joystick forward.

LOWERING THE PLATFORM

- 1. Check clearances below and to the sides of the platform.
- Select LIFT mode. 2.
- 3. Engage the safety interlock trigger and pull back on the joystick to lower the platform.

TRAVEL WITH THE PLATFORM LOWERED

- 1. Check that the route is clear of obstacles (persons, obstructions, holes, drop-offs, bumps and debris) and capable of supporting wheel load.
- Ensuré that the chassis emergency stop switch is ON (pulled out).
- Mount the platform and properly close the entrance.
- 4. Check clearances above below and to the sides of the platform.
- 5. Twist the platform emergency stop switch out to the ON position.
- 6. Start the machine and select a DRIVE mode.

NOTE: Choose between standard drive, high, low and extra torgue depending on the gradient.

- 7. High speed select option on the platform controls is for 2-wheel drive only. Low speed maximum torque select option is for 4-wheel drive only.
- 8. High speed should only be used to cover longer distances over firm level ground. It is not intended to be used for precise manoeuvring or positioning.
 9. Engage the safety interlock trigger and move the joystick to forward or reverse to travel in the
- desired direction. The speed of the machine will vary depending on how far from centre the joystick is moved.

OPERATION

TRAVEL WITH THE PLATFORM ELEVATED

NOTE: The machine will travel at reduced speed when the platform is elevated.

- 1. Check that the route is clear of obstacles (persons, obstructions, holes, drop-offs, bumps and debris) and capable of supporting the wheel load.
- 2. Check clearances above, below and to the sides of the platform.
- Select DRIVE mode.
 Engage the safety interlock trigger on the joystick and move forward or reverse to travel in the desired direction. The speed of the machine will vary depending on how far from centre the joystick is moved.
- 5. If the machine is not level, the tilt alarm will sound and the machine will not lift or drive. If the tilt alarm sounds, the platform must be lowered and the platform levelled (see below) before attempting to re-elevate the platform.

LEVELLING THE PLATFORM

The auto level feature is designed to level the platform in a situation where the ground has no more than a 13 degree slope side to side and 9 degrees front and back. If the slope is greater than 13 degrees side to side and 9 degrees front and back, the "auto level" feature will not function. The tilt alarm will continue to sound until the platform is level.

- 1. Check that the route is clear of obstacles (persons, obstructions, holes, drop-offs, bumps and debris) and capable of supporting wheel load. Check clearances above, below and to the sides of the platform.

- Elevate the platform approximately 600 mm (2 ft).
 Press and hold the "auto level" and engage the safety interlock trigger until the platform is level, the tilt alarm is silenced and the tilt LED extinguished.
- 5. The machine can now be driven within the limits of the tilt sensor. If the terrain changes, the machine will stop and the platform must be lowered and re-levelled.

NOTE: This machine has a floating axle which locks when elevated above approximately 2 m (6 ft). If the machine is elevated and the ground slope causes the floating axle to be out of level when compared to the fixed axle, drive will be disabled. This will be indicated by the tilt LED flashing red. In this event, lower the platform below 2 m (6 ft) to enable drive.

HOUR METER

The runtime hours are displayed on the chassis control panel.

OPERATION

PLATFORM EXTENSION (SL26 SPEED LEVEL ONLY)

The platform can be extended and securely locked into position. Use the following procedure to extend the platform:

1. Enter the platform and close the gate.



- 2. While facing the front of the platform, unlock the LH and RH handles on the extension platform. Using the handles, slide the extension platform out. Ensure that the LH and RH are locked securely in place.
- 3. Try to move the rails back and forth to make sure the platform extension is locked in place.

PLATFORM RETRACTION(SL26 SPEED LEVEL ONLY)

1. Enter the platform and close the gate.



- While facing the front of the platform, unlock the LH and RH handles on the extension platform. Using the handles, slide the extension platform in. Ensure that the LH and RH are locked securely in place.
- 3. Try to move the rails back and forth to make sure the platform extension is locked in place.

FOLD DOWN GUARDRAILS

This procedure is for the purpose of transportation. Guardrails must be returned to the upright position (safe working position) before using the machine.

FOLD DOWN PROCEDURE

- 1. Retract extension platform by releasing securing pins and sliding extension platform into locking position.
- 2. Unhook the controller from the side guardrail and place it on the floor of the platform.
- 3. Starting at the front of the platform, remove nuts, bolts and washers from the top of the front guardrail. Fold the front guardrail down onto the platform.

- 4. Close the latch gate.
- Remove nuts, bolts and washers from the top of the rear guardrail. Fold the rear guardrail down onto the platform being careful to keep latched at all times.
 Remove nuts, bolts and washers from the top of the side guardrails. Lift up and fold one side
- Remove nuts, bolts and washers from the top of the side guardrails. Lift up and fold one side guardrail in resting it on the deck. Repeat with other side guardrails.

UNFOLD PROCEDURE

- 1. Raise side guardrails, making sure each is pushed down to secure the guardrail in the vertical position.
- 2. Install bolts, washers and nuts between the side guardrails, tighten securely.
- 3. Raise rear guardrail assembly, aligning holes and install bolts, washers and nuts. Tighten securely.





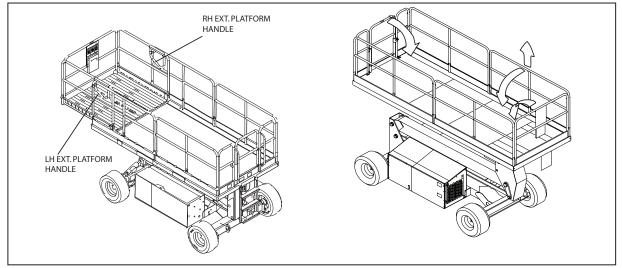


Figure 2-6: A view of the platform handle locations and fold directions.

EMERGENCYPROCEDURE

TOWING OR WINCHING

Perform the following action only when the machine will not operate under its own power and it is necessary to move the machine or when winching onto a transport vehicle (Refer to "Transporting the work platform" on page 2-18).



BRAKE RELEASE PUMP

Perform the following only when the machine will not operate under its own power and it is necessary to move the machine or when towing the machine up a grade or onto a trailer to transport.

- Open the needle valve by turning the screw anti-clockwise. This allows the wheels to freewheel. 1.

- Pump the brake release pump until the parking brake is released.
 The machine will be able to roll when pushed or pulled.
 Be sure to close the needle valve and screw in the PC3 valve with an allen key after undoing the locknut. This will release the brake pressure. Once the brakes have been re-applied, return PC3 valve to its original configuration by fully unscrewing. Finally tighten the locknut.

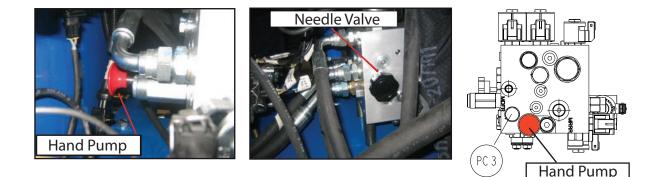


Figure 2-7: A view of the hand pump and needle valve locations.

EMERGENCYPROCEDURE



EMERGENCY LOWERING



The emergency lowering valve for the SL machine is located on the module side as shown in figure 2-8.

- 1. Open the emergency lowering valve by pulling and holding the handle.
- 2. To close, release the handle.

NOTE: The platform will not elevate if the emergency lowering valve is open.



Figure 2-8: Emergency Lowering handle.

TRANSPORTATION

PREPARATION FOR SHIPMENT

- 1. Fully lower the platform.
- 2. Turn batteries OFF with master switch.

LIFTING BY CRANE

- Secure straps to chassis tie down/lifting lugs only. 1.
- 2. Place the platform onto the transport vehicle in transport position.
- Chock the wheels.
- 4. Secure the work platform to the transport vehicle with chains or straps of adequate load capacity attached to the chassis tie down/lifting lugs.

DRIVING OR WINCHING ONTO A TRACK OR TRAILER

NOTE: Do not winch faster than 0.3 m/s (1 ft/s)

- 1. Move the machine onto the truck or trailer using the following procedure:
 - To drive the machine onto the transport vehicle; > Move the work platform up the ramp and
 - into transport position. Set the wheels straight and turn off the machine.
 - > Chock the wheels.
 - To winch the machine onto the transport vehicle; > Move the work platform up to the ramp. > Attach the winch cable to the tie

 - down/lifting lugs.
 - Release the parking brakes. Refer to towing or winching on page 2-16.
 - Winch the platform into transport position.
 - Chock the wheels.
- 2. Secure the work platform to the transport vehicle with chains or straps of adequate load capacity attached to the chassis tie down/lifting lugs.



AFTER USE EACH DAY

- Ensure that the platform is fully lowered.
- 2. Park the machine on a firm level surface, preferably under cover, secure against vandals, children and unauthorised operation.
- 3. Turn the chassis key switch to OFF and remove the key to prevent unauthorised operation.
- 4. Turn batteries OFF with master switch.





BLOCKING THE ELEVATING ASSEMBLY

INSTALLATION

- 1. Park the work platform on firm, level ground and leave the engine running.
- Ensure the chassis emergency stop button is twisted to the ON position.
- 3. Press and hold the chassis ENABLE and then LIFT switches to elevate the platform approximately 305 mm (12 inches).
- 4. Place a jackstand with a minimum rating of 2000 kg (4000 lbs.) between the lower mast and chassis just behind the front axle.
- 5. Press and hold the chassis ENABLE and then DESCEND switches to lower the platform until jackstand is secured tightly between the lower mast and chassis.

REMOVAL

- 1. Press and hold the chassis ENABLE and then LIFT switches to elevate the platform until the jackstand can be removed.
- 2. Remove the jackstand.
- Press and hold the Chassis ENABLE and the DESCEND switches to completely lower the platform.

BATTERY MAINTENANCE (FOR MAINTENANCE BATTERIES ONLY)



- Check the battery fluid level daily, especially if the work platform is being used in a warm, dry climate.
- If electrolyte level is lower than 10mm (3/8 in.) above the plates, add distilled water only. DO NOT use tap water with high mineral content as it will shorten battery life.
- Keep the terminals and tops of the batteries clean.
- Refer to the service manual to extend battery life and for complete service instructions.

BATTERY CHARGING

The battery charges whiles the engine is running.

INSPECTION AND MAINTENANCE

The complete inspection consists of periodic visual and operational checks along with periodic minor adjustments that assure proper performance. Daily inspection will prevent abnormal wear and prolong the life of all systems. The inspection and maintenance schedule should be performed by personnel who are trained and familiar with mechanical and electrical procedures.



The daily preventative maintenance checklist has been designed for machine service and maintenance. Photocopy the checklist page and use the checklist when inspecting the machine.

ENGINE MAINTENANCE

Refer to your Kubota Operators Manual supplied with the machine for details of regular inspection and maintenance requirements. Particular attention should be taken to reduce inspection and maintenance interval requirements when working in hostile environments.

INSPECTIONANDMAINTENANCE

DAILY PREVENTATIVE MAINTENANCE SCHEDULE

MAINTENANCE TABLE KEY

- **Y** = Yes/Acceptable
- **N** = No/Not Acceptable
- **R** = Repaired/Acceptable

PREVENTATIVE MAINTENANCE REPORT

Date:	
Owner:	
Model #:	
Serial #:	
Serviced by:	

COMPONENT	INSPECTION OR SERVICES	Υ	Ν	R
Operator's Manual	Check that the operators manual is in the manual holder and all pages are intact and readable			
Labels & Decals	Check that labels and decals are in place, intact and readable			
Entire Unit	Perform pre-operation inspection			
	Check for and repair any damage			
Electrical system	Check cables and wiring harness condi- tion (No wear or physical damage)			
Battery	Check electrolyte level			
System	Check battery cable condition			
	Check terminals are clean and connec- tors are tight			
	Check charger condition and operation			
	Charge batteries			
Hydraulic fluid	Check oil level			
Hydraulic system	Check all fittings are tight and there are no leaks			
Drive motors	Check for operation and leaks			
Hydraulic pump	Check fittings are secure and there are no leaks			
Emergency lowering	Check emergency lowering correctly (See emergency lowering procedure)			
Controller	Check condition and operation	İ		T
Platform deck and	Check fasteners are in place, correctly tightened and not damaged			
rails	Check the structure and welds for dam- age, deformation, corrosion and cracks			
	Check condition of deck (no damage, deformation, corrosion or cracks			
	Check entry gate closure functions correcly			

 Table 2-2:
 Daily preventative maintenance checklist

COMPONENT	INSPECTION OR SERVICES	Y	N	R
Elevating assembly	Inspect for external damage, dents, loose rivets or cracks.			
	Check the structure and welds for dam- age, deformation, corrosion and cracks			
Chassis	Check cables for pinch or rubbing points			
	Check the structure and welds for dam- age, deformation, corrosion and cracks			
Lift Cylinders	Check for leaks			
Wheels	Check for loose components			
	Check for damage to tyres			
Harness	Check fasteners are secure			
anchor point	Check for damage, deformation, corrosion and cracks			
System func- tion inspec- tion	Conduct system function inspection (see system function inspection procedure)			
Emergency stops	Check that the emergency stop button on the basket panels operates correctly			
	Check that the emergency stop button on the ground control panel operates correctly			
Brakes	Check that the brakes operate correctly			
Horn	Check that the horn sounds when activated			
Controller and Sensors	Check that the level sensor functions cor- rectly (drive and platform raise functions are disabled and only platform lowering enabled) when the platform inclination ex- ceeds the specification inclination value.			
	Check full drive speed range is enabled when the platform is stowed.			
	Check that only reduced drive speed range is enabled when the platform is elevated.			
Engine	Refer to your Kubota Operators Manual for pre-operation checks			

* NOTE: Use ISO #46 during summer and ISO #32 during winter

SPECIFICATIONS

1.71 m x 3.66 m [67.5 in. x 144 in.] 1.71 m x 4.55 m [67.5 in. x 179 in.] 680 kg [1500 lbs.] 680 kg[1500 lbs.] 225 kg [496 lbs.] 5 PEOPLE (WIND SPEED 12.5 m/s) 2 PEOPLE (WIND SPEED 12.5 m/s) 9.75 m [32 ft.] 7.90 m [26 ft.] 1.5 m [59 in.] 7.90 m [26 ft.] DIESEL: 3550 kg [7826 lbs.] 2.13 m [84 in.]	1.71 m x 4.22 m [67.5 in. x 166.5 in.] N/A 590 kg [1300 lbs.] N/A N/A 5 PEOPLE (WIND SPEED 12.5 m/s) N/A 10.85 m [35.6 ft.] 9.0 m [29.5 ft.] 1.5 m [59 in.] 9.0 m [29.5 ft.] DIESEL: 3400 kg [7495 lbs.]
1.71 m x 4.55 m [67.5 in. x 179 in.] 680 kg [1500 lbs.] 680 kg [1500 lbs.] 225 kg [496 lbs.] 5 PEOPLE (WIND SPEED 12.5 m/s) 2 PEOPLE (WIND SPEED 12.5 m/s) 9.75 m [32 ft.] 7.90 m [26 ft.] 1.5 m [59 in.] 7.90 m [26 ft.] DIESEL: 3550 kg [7826 lbs.]	N/A 590 kg [1300 lbs.] N/A N/A 5 PEOPLE (WIND SPEED 12.5 m/s) N/A 10.85 m [35.6 ft.] 9.0 m [29.5 ft.] 1.5 m [59 in.] 9.0 m [29.5 ft.]
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2 PEOPLE (WIND SPEED 12.5 m/s) 9.75 m [32 ft.] 7.90 m [26 ft.] 1.5 m [59 in.] 7.90 m [26 ft.] DIESEL: 3550 kg [7826 lbs.]	N/A 10.85 m [35.6 ft.] 9.0 m [29.5 ft.] 1.5 m [59 in.] 9.0 m [29.5 ft.]
2 PEOPLE (WIND SPEED 12.5 m/s) 9.75 m [32 ft.] 7.90 m [26 ft.] 1.5 m [59 in.] 7.90 m [26 ft.] DIESEL: 3550 kg [7826 lbs.]	N/A 10.85 m [35.6 ft.] 9.0 m [29.5 ft.] 1.5 m [59 in.] 9.0 m [29.5 ft.]
9.75 m [32 ft.] 7.90 m [26 ft.] 1.5 m [59 in.] 7.90 m [26 ft.] DIESEL: 3550 kg [7826 lbs.]	10.85 m [35.6 ft.] 9.0 m [29.5 ft.] 1.5 m [59 in.] 9.0 m [29.5 ft.]
7.90 m [26 ft.] 1.5 m [59 in.] 7.90 m [26 ft.] DIESEL: 3550 kg [7826 lbs.]	9.0 m [29.5 ft.] 1.5 m [59 in.] 9.0 m [29.5 ft.]
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7.90 m [26 ft.] DIESEL: 3550 kg [7826 lbs.]	9.0 m [29.5 ft.]
DIESEL: 3550 kg [7826 lbs.]	
	DIESEL: 3400 kg [7495 lbs.]
	DIESEL: 3400 kg [7495 lbs.]
2.13 m [84 in.]	+
	2.13 m [84 in.]
2.6 m [102.5 in.]	2.6 m [102.5 in.]
3.79 m [149 in.]	4.39 m [173 in.]
0 TO 5.0 km/h [0 TO 3.1 m.p.h.]	0 TO 5.0 km/h [0 TO 3.1 m.p.h.]
0 TO 0.8 km/h [0 TO 0.5 m.p.h.]	0 TO 0.8 km/h [0 TO 0.5 m.p.h.]
12 VOLT DC	12 VOLT DC
74 L [19.5 US GALLONS]	47 L [19.5 US GALLONS]
210 bar [3000 psi]	210 bar [3000 psi]
ISO #46 (SEE DECAL ON TANK)	ISO #46 (SEE DECAL ON TANK)
ISO #32	ISO #32
ISO #15	ISO #15
	ONE SINGLE STAGE LIFT CYLINDER
AISE: 21 SECONDS/LOWER: 32 SECONDS	RAISE: 24 SECONDS/LOWER: 36 SECONDS
13° SIDE TO SIDE, 9° FRONT AND BACK	13º SIDE TO SIDE, 9º FRONT AND BACK
20 HP (DIESEL), 15 kW	20 HP (DIESEL), 15kW
PROPORTIONAL	PROPORTIONAL
JOYSTICK CONTROLLER WITH SAFETY	JOYSTICK CONTROLLER WITH SAFETY
ERLOCK TRIGGER AND THUMB ROCKER	INTERLOCK TRIGGER AND THUMB ROCKER
STEERING, TOGGLE SELECTOR	STEERING, TOGGLE SELECTOR
EMERGENCY STOP SWITCHES	EMERGENCY STOP SWITCHES
	FOUR WHEEL, HYDRAULIC MOTORS
x 12.00 - 12 SUPER TERRA-GRIP WITH	26 x 12.00 - 12 SUPER TERRA - GRIP WITH TRAC SEAL
DO NOT EXCEED 57 PSI	DO NOT EXCEED 57 PSI
DUAL SPRING APPLIED, HYDRAULIC RELEASE, MULTI DISC	DUAL SPRING APPLIED, HYDRAULIC RELEASE, MULTI DISC
3.96 m [13 ft.]	3.96 m [13 ft.]
50% [27º]	50% [27°]
	2.54 [100 in.]
	1.7 m [67 in.] HIGH, FOLD DOWN WITH GATE
	152 mm [6 in.] HIGH
	3.79 m [149 in.] 0 TO 5.0 km/h [0 TO 3.1 m.p.h.] 0 TO 0.8 km/h [0 TO 0.5 m.p.h.] 12 VOLT DC 74 L [19.5 US GALLONS] 210 bar [3000 psi] ISO #46 (SEE DECAL ON TANK) ISO #32 ISO #15 ONE SINGLE STAGE LIFT CYLINDER ISE: 21 SECONDS/LOWER: 32 SECONDS I3° SIDE TO SIDE, 9° FRONT AND BACK 20 HP (DIESEL), 15 kW PROPORTIONAL OYSTICK CONTROLLER WITH SAFETY ERLOCK TRIGGER AND THUMB ROCKER STEERING, TOGGLE SELECTOR EMERGENCY STOP SWITCHES FOUR WHEEL, HYDRAULIC MOTORS x 12.00 - 12 SUPER TERRA-GRIP WITH TRAC SEAL DO NOT EXCEED 57 PSI DUAL SPRING APPLIED, HYDRAULIC RELEASE, MULTI DISC 3.96 m [13 ft.]

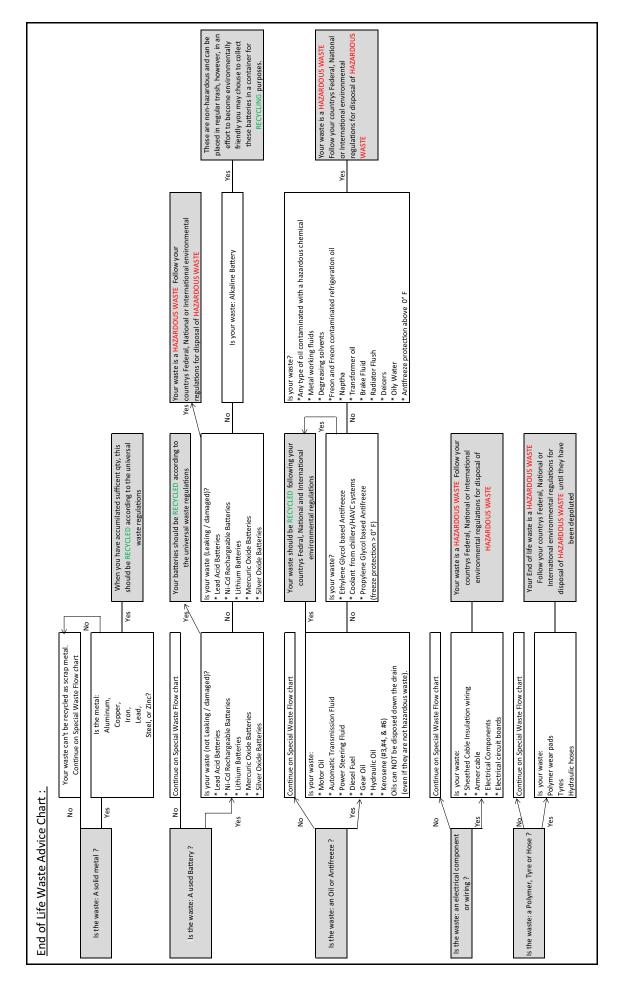
SPECIFICATIONS

WHEEL LOADING	2000 kg (4400 lb)	2000 kg (4400 lb)
VIBRATION OF THIS MACHINE DOES NOT EXCEED	2.5 m/s ²	2.5 m/s ²
NOISE PRESSURE LEVEL	107 dB AT CONTROL STATION	107 dB AT CONTROL STATION
MACHINE VIBRATION	WHOLE BODY VIBRATION < 0.5 m/s ² , HAND ARM VIBRATION < 2.5 m/s ²	WHOLE BODY VIBRATION < 0.5 m/s ² , HAND ARM VIBRATION < 2.5 m/s ²

Table 2-3: SL26SL/SL30SL Specification

NOTE: Specifications are subject to change without notice. Hot weather or heavy use may affect performance. Refer to the service manual for complete parts and service information. This machine meets or exceeds all applicable OSHA and ANSI A92.6 - 1999.

WASTE DISPOSAL AND REMOVAL



TROUBLESHOOTING

CONTENTS	
INTRODUCTION	4-2
GENERAL PROCEDURE	4-2
TROUBLESHOOTING PROCEDURE	4-2
SPECIAL TOOLS	4-2
ADJUSTMENT PROCEDURES	4-3
CHECKING PUMP PRESSURES	4-3
TROUBLESHOOTING GUIDE	4-3
DIAGNOSTICS SYSTEM PLATFORM GROUND INPUTS ANALOGS OUTPUTS	4-4 4-4 4-4 4-4 4-4 4-4 4-4
SL26-30 I/O LIST GP400 I/O PLATFORM MATRIX I/O	4-5 4-5 4-7

TROUBLESHOOTING

INTRODUCTION

The following section on troubleshooting provides guidelines on the types of problems users may encounter in the field. This helps to determine the cause of problems and provides suggestions for proper corrective action.

Careful inspection and accurate analysis of the symptoms listed in the troubleshooting guide will localize the trouble more quickly than any other method. This manual cannot cover all possible problems that may occur. If a specific problem is not covered in this manual, call Snorkel for service assistance.

Referring to section 2 and 5 will aid in understanding the operation and function of the various components and systems helping in diagnosing and repairing of the machine.

GENERAL PROCEDURE

It is important to thoroughly study the hydraulic and electrical schematics in section 5.

- Check for loose connections and short circuits.
- Check/repair/replace each component that does not operate properly using the Truth table listed under each machine function.
- Use the information provided in this section to help determine the cause of a fault.

NOTE: Spike protection diodes on components have been left out to eliminate confusion.



TROUBLESHOOTING PROCEDURE

- 1. Verify the problem: Perform a full function test from both the platform and chassis controls and note all functions that are not operating correctly.2. Narrow the possible causes: Use the troubleshooting guide to determine which components
- are common to all circuits that are not functioning correctly.
 Identify the problem component: Test components that are common to all circuits that are not functioning correctly. Remember to check wires and terminals between suspected components. Be sure to check connections to the battery negative terminal.
- Repair or replace any component found to be faulty.
 Verify that repair is complete: Do a full function test from both the platform and chassis controls to verify that all functions are operating correctly and that the machine is performing to specific values.

SPECIAL TOOLS

The following is a list of tools which may be required to perform certain maintenance procedures on the SL-series work platforms.

- •
- 0-45 bar (0-600 psi) hydraulic pressure gauge with adapter fittings. 0-250 bar (0-3500 psi) hydraulic pressure gauge with adaptor fittings •
- Mini mess hydraulic tést point fittings.
- Inclinometer
- Crimping tools, STD insullated and Deutsch
- EZcal calibrator (Snorkel part number: 504560-001)

ADJUSTMENT PROCEDURES

Hydraulic settings must be checked whenever a component is repaired or replaced.

- Do not remove the counterbalance valves and "bench test" them if they are faulty.
- Only replace them with valves of the same type.
- Connect a pressure gauge of appropriate range to the test port located on the hydraulic manifold.
- Correct pressure settings are listed in the hydraulic schematic.

CHECKING PUMP PRESSURES

Remove hose from manifold pump port and connect pressure gauge.

TROUBLESHOOTING GUIDE

Trouble	Probable Cause	Remedy
All functions do not operate, engine does not start.	Faulty battery.	After completely charging bat- teries, test each battery. Re- place if necessary.
	Loose or broken battery lead.	Check continuity of all battery and motor leads. Replace if necessary.
	Emergency stop switch/switches failed to open.	With emergency stop switch in the "ON" position, check conti- nuity.
Loss of hydraulic power with engine "ON".	Oil level in hydraulic reservoir is low.	Check hydraulic fluid level and top up as required.
	Faulty hydraulic pump.	Check pressure and delivery of the hydraulic oil. Replace if necessary.
Loss of electrical power with engine "ON" and hydraulic power available.	Emergency lowering valve open	Close emergency lowering valve.
	Platform overloaded and alarm sounds.	Observe maximum load rating (refer to operation section of this manual).
	Faulty controller at upper con- trols.	Check functionality of control- ler. Replace if faulty.
	Battery level low.	Check battery voltage. Charge the battery if necessary.
Platform drifts down	Emergency lowering valve opened.	Ensure that the emergency lowering valve is completely closed. Replace if necessary.
	Leaking piston seals in lift cylinders	Check for leakage at cylinder return line. Replace seals if necessary.

TROUBLESHOOTING

DIAGNOSTICS

The EZcal display has a number of diagnostic tools to aid troubleshooting. To access these with the machine switched on, press and hold "ESC" for 5 seconds until "#### MENU: HELP: PRESS EN-TER" is displayed. Press "ENTER" for a top level fault message.

For more detailed diagnostics from the top menu, scroll right to "DIAGNOSTICS" and press "ENTER". A list of diagnostics sub menus become available as follows:

SYSTEM

The information listed below is relevant to this machine (ignore any other data).

- •
- .
- •
- MODE: Ground or platform mode selected. SUPPLY: The supply voltage at the GP400. VALVE SUPPLY: Valve supply "ON" or "OFF". TILT: This is the platform tilt angle in X and Y. From tilt, press "ENTER" for chassis tilt angle in X and Y. AXLE: Press "ENTER" for "AXLE Tilt angle". TILTED: "YES" if the platform angle exceeds 2 degrees in X or Y. HEIGHT: The platform beingt as a percentage of full elevation.

- HEIGHT: The platform height as a percentage of full elevation. LOAD: The platform load as a percentage of full Safe Working Load (SWL). OVERLOADED: "YES" if the platform load exceeds 120% of the Safe Working Load (SWL).
- LAST MOVED: The last movement. ELEVATED: "YES" if the height is above the elevation height.

PLATFORM

The information listed below is relevant to this machine (ignore any other data).

- TRIGGER: "ON" if the joystick trigger is activated. •
- JOYSTICK: Gives the percentage of joystick deflection. •
- JOTSTICK: Gives the percentage of joystick deflection. FWD/UP: "ON" if the joystick is pushed forward beyond its "ON" position for "ON/OFF" appli-cations eg "MANUAL LEVELLING" forwards. REV/DOWN: "ON" if the joystick is pulled backward beyond its "ON" position for "ON/OFF" applications eg. "MANUAL LEVELLING" backwards. LEFT: "ON" for steer left. Right: "ON for steer right. •

GROUND

The information listed below is relevant to this machine (ignore any other data).

- UP: "ON" for lift selected.
- DOWN: "ON" for lower selected.

INPUTS

This provides the condition for all digital inputs to the GP400 controller in the ground control box and the matrix board in the platform control box. Refer to the electrical circuit diagram and the I/O list for details of each input function.

ANALOGS

This provides the voltage on the analogue inputs to the GP400 controller in the ground control box and the MATRIX board in the platform control box. Refer to the electrical circuit diagram and the I/O list for details of each input function.

OUTPUTS

This provides the condition for all digital outputs from the GP400 controller in the ground control box and the MATRIX board in the platform control box. Refer to the electrical circuit diagram and the I/O list for details of each output function.

SL26-30 I/O LIST GP400 I/O

Кеу	Meaning
MM	Movement Manifold Block
DM	Drive manifold Block
***	Elevated drive is always low speed

Connector-pin	I/O type	Function CE	Function ANSI	Comment	
P7-1	B+	TBM positive	TBM positive	Powers valve outputs, does not power GP400	
P8-14	B-	TBM negative	TBM negative		
P7-2	B+ digital input	Key switch ground mode	Key switch ground mode	High selects ground control and powers GP400	
P7-4	B+ digital input	Key switch platform mode	Key switch platform mode	High selects platform control and powers GP400	
P7-3	B+ digital input	Ground enable	Ground enable	Enables ground controlled functions	
P7-5	B+ digital input	Ground lift	Ground lift	Momentary: Hold to lift platform from ground controls when allowed	
P7-6	B+ digital input	Ground lower	Ground lower	Momentary: Hold to lower platform from ground controls when allowed	
P7-7	B+ digital input	Glow plug	Glow plug	Momentary: Hold for glow plug when ground control is selected	
P7-8	B+ digital input	Engine start	Engine start	Momentary: Hold for engine start when ground control is selected	
P8-13, P8-15	0 V for sensors	Sensor ground	Sensor ground	Ground to 2 off EZfit & Pres- sure transducer.	
P8-2	Analogue input	EZfit #1	EZfit #1	From EZfit #1 output	
P8-5	Analogue input	EZfit #2	EZfit #2	From EZfit #2 output	
P8-6	Analogue input	Pressure transducer	NOT USED	From pressure transducer out- put CE ONLY	
P8-9	Analogue input	TBM current sense	TBM current sense	From TBM	
P7-14	B- digital input	Engine coolant tempera- ture sensor	Engine coolant temperature sensor	Low input prevents engine starting and/or running	
P7-13	B- digital input	Engine oil pressure sensor	Engine oil pressure sensor	Low input: Will allow engine start but sound alarm immedi- ately and kill engine if low for > 30 seconds	
P7-15	B- digital input	Low if alternator fails to charge	Low if alternator fails to charge	Low input: Will allow engine start but sound alarm immedi- ately and kill engine if low for > 30 seconds	

TROUBLESHOOTING

GP400 I/O

Connector-pin	I/O type	Function CE	Function ANSI	Comment
P4-7	High side 2 A output	Throttle relay	Throttle relay	Energise for high revs
P4-1	High side PWM output	Proportional valve - MM:SP1	Proportional valve - MM:SP1	Analogue output to propor- tional valve
P4-8	High side 2 A output	Engine enable	Engine enable	High when engine start/run is allowed
P4-4	High side 2 A output	Glow plug relay	Glow plug relay	High to active glow plug relay
P4-5	High side 2 A output	Engine start solenoid relay	Engine start solenoid relay	High to turn engine starter motor
P5-2	High side 2 A output	Steer left solenoid - MM: SV1a	Steer left solenoid - MM: SV1a	To steer left energise MM:SV1a & MM:SV4
P5-3	High side 2 A output	Steer right sole- noid - MM: SV1b	Steer right solenoid - MM: SV1b	To steer right energise MM:SV1b & MM:SV4
P5-7	High side 2 A output	Platform tilt left sol - MM:SV2a	Platform tilt left sol - MM:SV2a	To tilt platform left energise MM:SV2a & MM:SV4
P5-8	High side 2 A output	Platform tilt right sol - MM:SV2b	Platform tilt right sol - MM:SV2b	To tilt platform right energise MM:SV2b & MM:SV4
P5-9	High side 2 A output	Platform tilt forward sol - MM:SV3a	Platform tilt forward sol - MM:SV3a	To tilt platform forward ener- gise MM:SV3a & MM:SV4
P5-11	High side 2 A output	Platform tilt backwards sol - MM:SV3b	Platform tilt back- wards sol - MM:SV3b	To tilt platform backwards en- ergise MM:SV3b & MM:SV4
P5-15	High side 2 A output	Tilt/Steer dump so- lenoid - MM:SV4	Tilt/Steer dump sole- noid - MM:SV4	Energise to allow platform levelling and steering
P4-14	High side 2 A output	Lift solenoid - MM:SV5	Lift solenoid - MM:SV5	To lift platform energise MM:SV5 and proportional valve MM:SP1
P4-13	High side 2 A output	Lower solenoid	Lower solenoid	Energise to lower the platform *Solenoid on lift cylinder
P4-2	High side 2 A output	Drive forward sol - DM:SV01a	Drive forward sol - DM:SV01a	For low speed forward drive energise DM:SV01a and pro- portional valve MM:SP1 ***
P4-6	High side 2 A output	Drive reverse sol - DM:SV01b	Drive reverse sol - DM:SV01b	For low speed reverse drive energise DM:SV01b and pro- portional valve MM:SP1 ***
P4-3	High side 2 A output	Medium speed sol - DM:SV4	Medium speed sol - DM:SV4	For medium speed drive ener- gise DM:SV4 & DM:SV8 and select forward/reverse with DM:SV01a/DM:SV01b and proportional valve MM:SP1
P5-14	High side 2 A output	High speed sol - DM:SV5	High speed sol - DM:SV5	For high speed drive energise DM:SV5, DM:SV8, DM:SV11 & DM:SV13 and select for- ward/reverse with DM:SV01a/ DM:SV01b and proportional valve MM:SP1
P4-9	High side 2 A output	2 wheel drive sol - DM:SV8	2 wheel drive sol - DM:SV8	Energised for high & medium speed drive
P4-10	High side 2 A output	Series drive sol - DM:SV11	Series drive sol - DM:SV11	Energised for high speed drive

GP400 I/O

Connector-pin	I/O type	Function CE	Function ANSI	Comment
P5-1	High side 2 A output	High speed sol - DM:SV13	High speed sol - DM:SV13	Energised for high speed drive
P4-15	High side 2 A output	Axle float solenoid	Axle float solenoid	Energise when driving and NOT elevated to allow axle float *Solenoid on axle float cylinder
P5-5	High side 2 A output	Ground alarm	Ground alarm	Alarm sounds as set in adjust- ments
P5-6	High side 2 A output	Overload LED	Not used	On when overloaded (CE only)

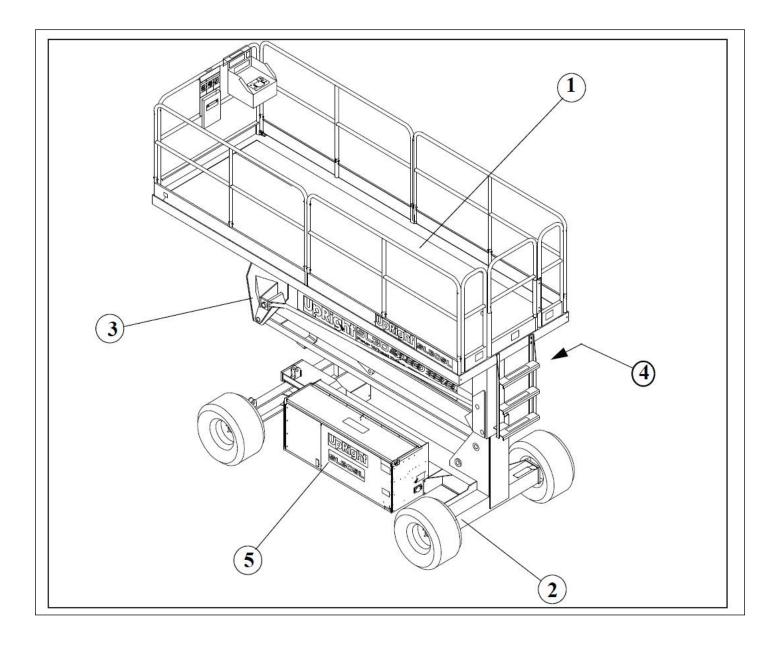
PLATFORM MATRIX I/O

Connector-pin	I/O type	Function CE	Function ANSI	Comment
MP3-1	Mux digital input	Common for se- lector switches	Common selector switches	
MP3-1/4	Mux digital output	Drive high speed select	Drive high speed select	Momentary switch latches high speed drive function
MP3-1/5	Mux digital output	Drive medium speed select	Drive medium speed select	Momentary switch latches medium speed drive function
MP3-1/6	Mux digital output	Drive low speed select	Drive low speed select	Momentary switch latches low speed drive function
MP3-1/7	Mux digital output	Auto level	Auto level	Momentary: Hold (along with joystick trigger) for Auto platform level. Auto level only allowed when the platform is below elevated height and the chassis tilt is within preselect- ed chassis tilt limits.
MP3-1/8	Mux digital output	Lift/Lower select	Lift/Lower select	Momentary switch latches platform lift/lower function
MP3-1/9	Mux digital output	Glow plug	Glow plug	Momentary: Hold for glow plug when platform control is selected
MP3-1/10	Mux digital output	Engine start	Engine start	Momentary: Hold for engine start when platform control is selected & engine start al- lowed.
MP4-1	Low side 1 A output	Overload LED	Not used	Flash & steady "ON" when overload dependant on adjust- ment setting (CE only)
MP4-2	Low side 1 A output	Drive high speed select LED	Drive high speed select LED	Steady on when high speed drive is selected
MP4-3	Low side 1 A output	Drive medium speed select LED	Drive medium speed select LED	Steady on when medium speed drive is selected
MP4-4	Low side 1 A output	Drive low speed select LED	Drive low speed select LED	Steady on when low speed drive is selected
MP4-5	Low side 1 A output	Lift/Lower select LED	Lift/Lower select LED	Steady on when platform lift/ lower is selected

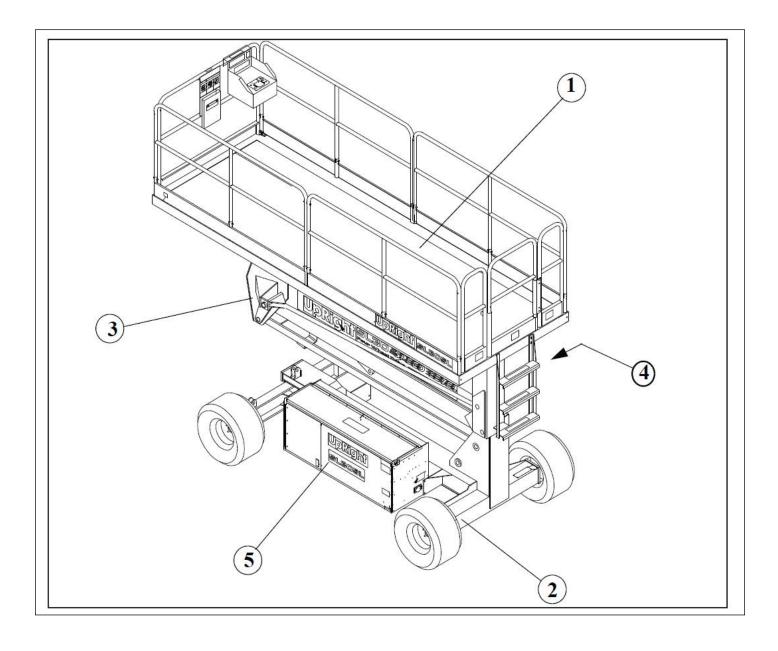
TROUBLESHOOTING

PLATFORM MATRIX I/O

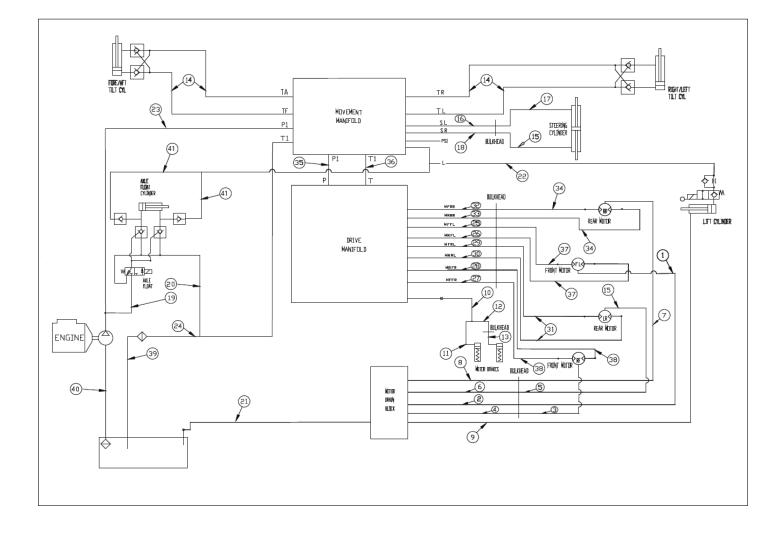
Connector-pin	I/O type	Function CE	Function ANSI	Comment
MP4-6	Low side 1 A output	Tilt LED	Tilt LED	Flash when platform is tilted beyond platform tilt limits.
MP4-7	Low side 1 A output	Engine LED	Engine LED	Steady on when GP400 P7- 13,14, or 15 are low.
MP4-8	Low side 1 A output	Buzzer	Buzzer	Alarm sounds as set in adjust- ments
MP2-1	B+ digital input	Steer left switch	Steer left switch	Activate left steer when drive is allowed and trigger closed
MP2-2	B+ digital input	Steer right switch	Steer right switch	Activate right steer when drive is allowed and trigger closed
MP2-5	B+ digital input	Trigger switch	Trigger switch	Trigger enable from joystick
MP2-7	Analogue input	Joystick	Joystick	Joystick hall effect output
MP2-10	5 V protected sup- ply	Joystick	Joystick	Joystick hall effect supply
MP2-11	B- protected supply	Joystick	Joystick	Joystick hall effect gnd
MP2-12	B+ protected sup- ply	Joystick	Joystick	Joystick switches supply
MP1-1	B+ supply			2 off platform tilt sensors used
MP1-3	CANH			for Auto level and to pre-
MP1-6	CANL	CANTILT (x4)	CANTILT (x4)	vent drive and lift above the elevated height if platform is
MP1-4	GND			outside of preselected plat- form tilt limits & 2 off axle tilt sensors used to prevent lift and drive above the elevation height if the axle is out of level with the chassis by more than 1 degree. Connected in series over CAN and into the matrix board and GP400C.



アイテム	部品番号	名前	数量	UOM
Not Shown	505600 000	GENERAL ASSEMBLY SL30SL		EA
1	505603 000	PLATFORM ASSEMBLY SL26RTE	1	EA
2	505501 000	CHASSIS ASSY SL26/30RTE	1	EA
3	505602 000	ELEVATING ASSEMBLY SL26RTE	1	EA
4	505504 000	Power module	1	EA
5	505515 000	Control module	1	EA

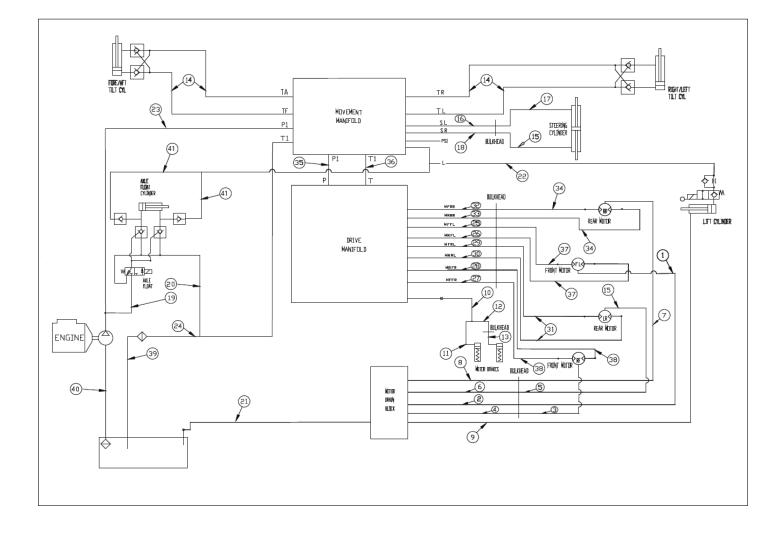


アイテム	部品番号	名前	数量	UOM
Not Shown	505500 000	GENERAL ASSEMBLY SL26SL		EA
1	505503 000	PLATFORM ASSEMBLY SL30SL	1	EA
2	505501 000	CHASSIS ASSY SL26/30RTE	1	EA
3	505502 000	ELEVATING ASSY SL30SL	1	EA
4	505504 000	Power module	1	EA
5	505515 000	Control module	1	EA



アイテム	部品番号	名前	数量	UOM
Not Shown	510379 000	HYDRAULIC HOSE ASSEMBLY (BEFORE SN 01 060213)		EA
1	510380 000	LHF motor drain to BH	1	EA
2	510381 000	LHF BH to return manifold	1	EA
3	510382 000	RHF motor drain to BH	1	EA
4	510383 000	RHF BH to return manifold	1	EA
5	510384 000	LHR motor drain to BH	1	EA
6	510385 000	LHR BH to return manifold	1	EA
7	510386 000	RHR motor drain to BH	1	EA
8	510387 000	RHR BH to return manifold	1	EA
9	510388 000	Lift cylinder to return manifold	1	EA
10	510389 000	Brake port to LHR BH TEE	1	EA
11	510390 000	LHR BH to LH brake	1	EA
12	510391 000	LHR BH TEE to RHR BH	1	EA
13	510392 000	RHR BH to RH brake	1	EA
14	510393 000	Movement manifold to tilt cylinder Left	4	EA
15	510394 000	Steer cylinder to LHF BH	1	EA
16	510395 000	LHF BH to movement manifold (SL)	1	EA
17	510396 000	Steer cylinder to RHF BH	1	EA
18	510397 000	RHF BH to movement manifold (SR)	1	EA
19	510398 000	Run TEE to axle float	1	EA
20	510399 000	Axle float to tank	1	EA
21	510400 000	Return manifold to tank	1	EA
22	510401 000	Movement manifold to lift cylinder	1	EA
23	510402 000	Pump to movement manifold	1	EA
24	510403 000	Drive manifold to return filter	1	EA
25	510404 000	Drive manifold MFFL to BH	1	EA
26	510405 000	Drive manifold MRFL to BH	1	EA

アイテム	部品番号	名前	数量	UOM
27	510406 000	Drive manifold MFFR to BH	1	EA
28	510407 000	Drive manifold MRFR to BH	1	EA
29	510408 000	Drive manifold MFRL to BH	1	EA
30	510409 000	Drive manifold MRRL to BH	1	EA
31	510410 000	BH to RL motor	2	EA
32	510411 000	Drive manifold MFRR to BH	1	EA
33	510412 000	Drive manifold MRRR to BH	1	EA
34	510413 000	BH to RR motor	2	EA
35	510414 000	Movement to drive manifold press	1	EA
36	510415 000	Movement to drive manifold return	1	EA
37	510416 000	BH to RHF motor	2	EA
38	510417 000	BH to LHF motor	2	EA
39	510418 000	Return filter to tank	1	EA
40	510419 000	Tank to pump suction	1	EA
41	510826 000	Lift TEE to axle float cylinder	2	EA



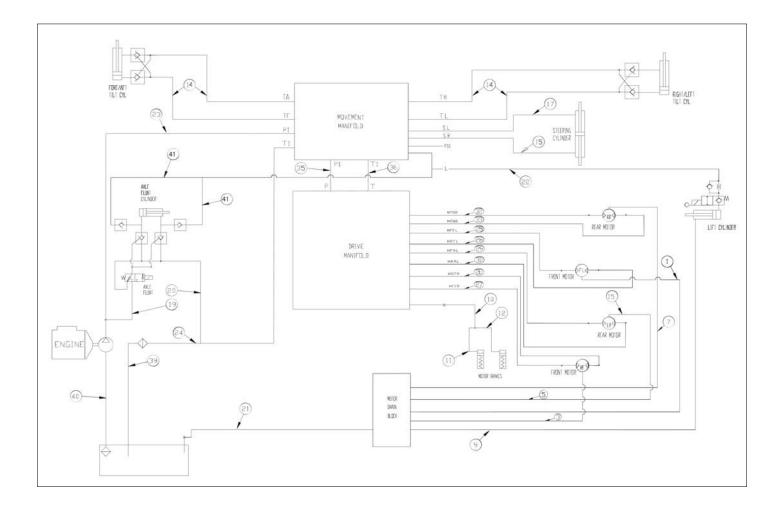
アイテム	部品番号	名前	数量	UOM
Not Shown	514942 000	HYDRAULIC HOSE ASSEMBLY (After SN 01 060214)		EA
1	510380 000	LHF motor drain to BH	1	EA
2	510381 000	LHF BH to return manifold	1	EA
3	510382 000	RHF motor drain to BH	1	EA
4	510383 000	RHF BH to return manifold	1	EA
5	510384 000	LHR motor drain to BH	1	EA
6	510385 000	LHR BH to return manifold	1	EA
7	510386 000	RHR motor drain to BH	1	EA
8	510387 000	RHR BH to return manifold	1	EA
9	510388 000	Lift cylinder to return manifold	1	EA
10	510389 000	Brake port to LHR BH TEE	1	EA
11	510390 000	LHR BH to LH brake	1	EA
12	510391 000	LHR BH TEE to RHR BH	1	EA
13	510392 000	RHR BH to RH brake	1	EA
14	510393 000	Movement manifold to tilt cylinder Left	4	EA
15	510394 000	Steer cylinder to LHF BH	1	EA
16	510395 000	LHF BH to movement manifold (SL)	1	EA
17	510396 000	Steer cylinder to RHF BH	1	EA
18	510397 000	RHF BH to movement manifold (SR)	1	EA
19	510398 000	Run TEE to axle float	1	EA
20	510399 000	Axle float to tank	1	EA
21	510400 000	Return manifold to tank	1	EA
22	510401 000	Movement manifold to lift cylinder	1	EA
23	510402 000	Pump to movement manifold	1	EA
24	510403 000	Drive manifold to return filter	1	EA
25	510404 000	Drive manifold MFFL to BH	1	EA
26	510405 000	Drive manifold MRFL to BH	1	EA

HYDRAULIC HOSE ASSEMBLY

PART	DESCRIPTION	QTY
510380-000	LHF motor drain to BH	1
510381-000	LHF BH to return manifold	1
510382-000	RHF motor drain to BH	1
510383-000	RHF BH to return manifold	1
510384-000	LHR motor drain to BH	1
510385-000	LHR BH to return manifold	1
510386-000	RHR motor drain to BH	1
510387-000	RHR BH to return manifold	1
510388-000	Lift cylinder to return manifold	1
510389-000	Brake port to LHR BH TEE	1
510390-000	LHR BH to LH brake	1
510391-000	LHR BH TEE to RHR BH	1
510392-000	RHR BH to RH brake	1
510393-000	Movement manifold to tilt cylinder	4
510394-000	Steer cylinder to LHF BH	1
510395-000	LHF BH to movement manifold (SL)	1
510396-000	Steer cylinder to RHF BH	1
510397-000	RHF BH to movement manifold (SR)	1
510398-000	Run TEE to axle float	1
510399-000	Axle float to tank	1
510400-000	Return manifold to tank	1

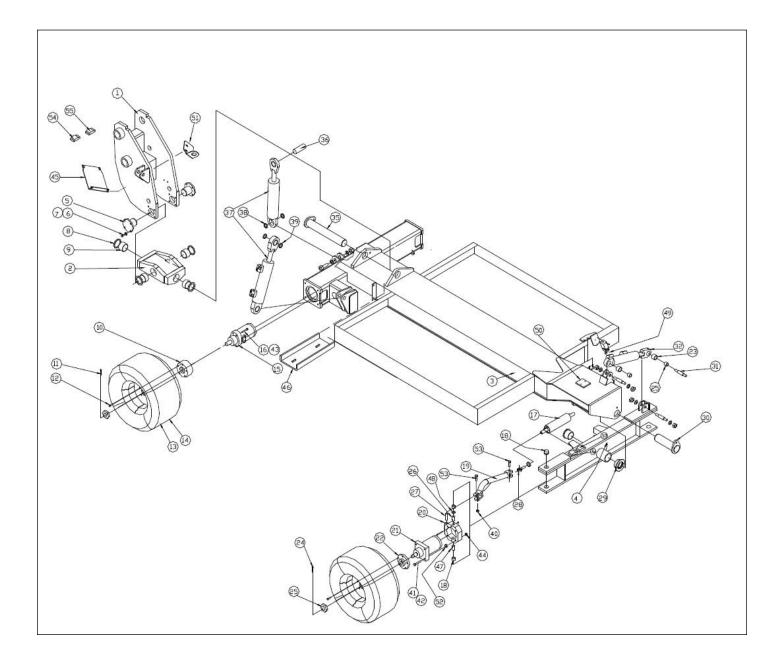
PART	DESCRIPTION	QTY
510401-000	Movement manifold to lift cylinder	1
510402-000	Pump to movement mani- fold	1
510403-000	Drive manifold to return filter	1
510404-000	Drive manifold MFFL to BH	1
510405-000	Drive manifold MRFL to BH	1
510406-000	Drive manifold MFFR to BH	1
510407-000	Drive manifold MRFR to BH	1
510408-000	Drive manifold MFRL to BH	1
510409-000	Drive manifold MRRL to BH	1
510410-000	BH to RL motor	2
510411-000	Drive manifold MFRR to BH	1
510412-000	Drive manifold MRRR to BH	1
510413-000	BH to RR motor	2
510414-000	Movement to drive mani- fold press	1
510415-000	Movement to drive mani- fold return	1
510416-000	BH to RHF motor	2
510417-000	BH to LHF motor	2
510418-000	Return filter to tank	1
510419-000	Tank to pump suction	1
510826-000	Lift TEE to axle float cyl- inder	2
12-1886	Male / Female 90 elbow-3/4	1
12-1581	Male / Female 90 elbow-1/2	1
	Straight Adaptor - 3/4	

アイテム	部品番号	名前	数量	UOM
27	510406 000	Drive manifold MFFR to BH	1	EA
28	510407 000	Drive manifold MRFR to BH	1	EA
29	510408 000	Drive manifold MFRL to BH	1	EA
30	510409 000	Drive manifold MRRL to BH	1	EA
31	510410 000	BH to RL motor	2	EA
32	510411 000	Drive manifold MFRR to BH	1	EA
33	510412 000	Drive manifold MRRR to BH	1	EA
34	510413 000	BH to RR motor	2	EA
35	510414 000	Movement to drive manifold press	1	EA
36	510415 000	Movement to drive manifold return	1	EA
37	510416 000	BH to RHF motor	2	EA
38	510417 000	BH to LHF motor	2	EA
39	510418 000	Return filter to tank	1	EA
40	510419 000	Tank to pump suction	1	EA
41	510826 000	Lift TEE to axle float cylinder	2	EA
42	514943 000	Drive manifold to return filter	1	EA



アイテム	部品番号	名前	数量	UOM
Not Shown	515419 000	HYDRAULIC HOSE ASSEMBLY (AFTER SN SL26SL 01 xxxx00073, SL30SL 01 xxxx00158)		EA
1	515428 000	LHF motor drain to return manifold	1	EA
3	515421 000	RHF motor drain to return manifold	1	EA
5	515429 000	LHR motor drain to return manifold	1	EA
7	515435 000	RHR motor drain to return manifold	1	EA
9	510388 000	Lift cylinder to return manifold	1	EA
10	515430 000	Brake port to manifold	1	EA
11	515453 000	LHR BH to LH brake	1	EA
12	515436 000	manifold to RHR brake	1	EA
14	510393 000	Movement manifold to tilt cylinder Left	4	EA
15	515424 000	Steer cylinder to manifold	1	EA
17	515425 000	Steer cylinder to manifold	1	EA
19	510398 000	Run TEE to axle float	1	EA
20	510399 000	Axle float to tank	1	EA
21	510400 000	Return manifold to tank	1	EA
22	510401 000	Movement manifold to lift cylinder	1	EA
23	510402 000	Pump to movement manifold	1	EA
24	514943 000	Drive manifold to return filter	1	EA
25	515426 000	Drive manifold MFFL to LHF MOTOR	1	EA
26	515427 000	Drive manifold MRFL to LHF MOTOR	1	EA
27	515422 000	Drive manifold MFFR to RHF MOTOR	1	EA
28	515423 000	Drive manifold MRFR to RHF MOTOR	1	EA

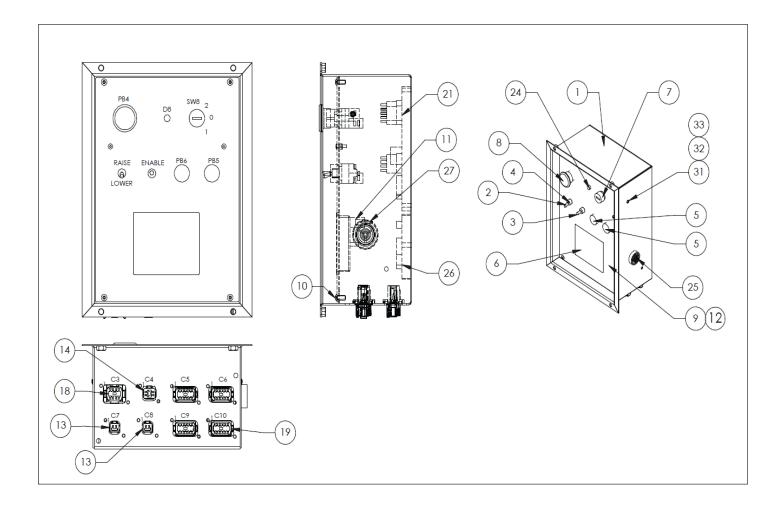
アイテム	部品番号	名前	数量	UOM
29	515433 000	Drive manifold MFRL to RL MOTOR	1	EA
30	515434 000	Drive manifold MRRR to RR MOTOR	1	EA
32	515431 000	Drive manifold MFRR to RR MOTOR	1	EA
33	515434 000	Drive manifold MRRR to RR MOTOR	1	EA
35	510414 000	Movement to drive manifold press	1	EA
36	510415 000	Movement to drive manifold return	1	EA
39	510418 000	Return filter to tank	1	EA
40	510419 000	Tank to pump suction	1	EA
41	510826 000	Lift TEE to axle float cylinder	2	EA



アイテム	·	部品番号	名前	数量	UOM
Not Shown	505501	000	CHASSIS ASSY SL26/30RTE		EA
1	064320	001	1st post weldment (Before SL30 01 00168 / SL26 01 00066)	1	EA
1	513347	000	1st post weldment (After SL30 01 00177+ inc.00169,00173 / SL26 01 00090+ inc. 00067,00074,00073)	1	EA
2	064331	001	Leveller weldment (Before SL30 01 00168 / SL26 01 00066)	1	EA
2	513392	000	Leveller weldment (After SL30 01 00177+ inc.00169,00173 / SL26 01 00090+ inc. 00067,00074,00073)	1	EA
3	510501	000	Weldment, chassis	1	EA
4	510497	000	Weldment, front axle	1	EA
5	064343	001	Trunnion	2	EA
6	011256	014	Screw, trunnion	8	EA
7	011238	008	Washer	8	EA
8	064383	000	Thrust washer, 5 mm	4	EA
Not Shown	064383	001	Thrust washer, 4 mm	4	EA
Not Shown	064383	002	Thrust washer, 3 mm	4	EA
9	062642	032	Bushing, level pivot	4	EA
10	064811	000	Hub, rear	2	EA
11	011754	012	Split pin	4	EA
12	98300 9		Wheel Nut	20	EA
13	069129	000	Wheel, right hand (Marking)	2	EA
13	069129	010	Wheel, right hand (non Marking),Before SN SL26 01 00044, SL30 01 00112	2	EA
13	515377	000	Wheel, right hand (non Marking),After SN SL26 01 00045, SL30 01 00113	2	EA
13	069129	002	Wheel, right hand ANSI	2	EA

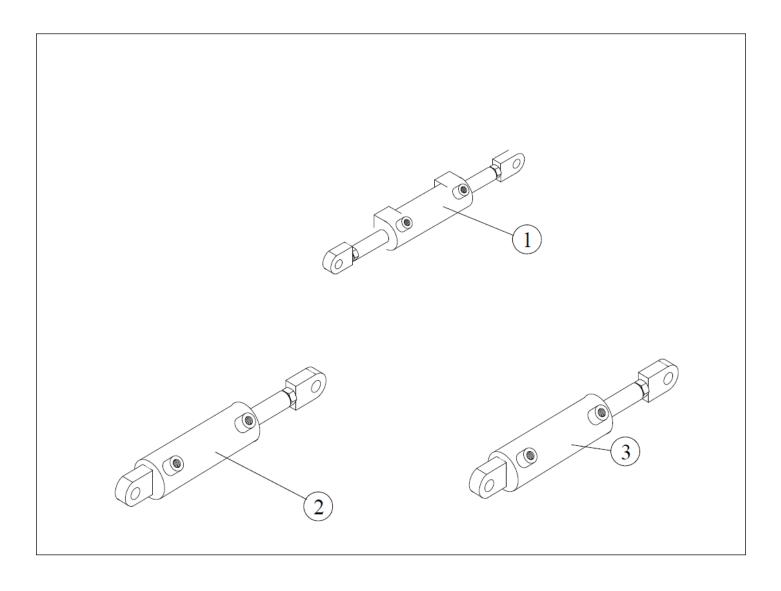
アイテム	部品番号	名前	数量	UOM
14	069129 001	Wheel, left hand (Marking)	2	EA
14	069129 011	Wheel, left hand (Non Marking),Before SN SL26 01 00044, SL30 01 00112	2	EA
14	515377 001	Wheel, left hand (Non Marking),After SN SL26 01 00045, SL30 01 00113	2	EA
14	069129 003	Wheel, left hand ANSI	2	EA
27	062642 001	Bushing, motor mount	4	EA
15	505201 000	Drive motor, rear	2	EA
16	011257 014	Bolt, drive motor, rear	8	EA
17	063905 101	Steer cylinder	1	EA
18	512318 000	Bushing, axle/Motor mount	2	EA
19	510333 000	Steering link arm	2	EA
20	505564 000	Motor mount	2	EA
21	505202 000	Drive motor, front	2	EA
22	064812 000	Hub, front	2	EA
23	027931 057	Bushing, roller (Before SN SL26SL 01 00111 / SL30SL 01 00211) Not used on SLRTE	2	EA
24	011754 012	Split pin	4	EA
25	064350 000	Axle pivot	2	EA
26	509463 000	Top axle pin	2	EA
28	063927 001	Rose bearing, steering cylinder	2	EA
29	064298 005	Bushing, axle to chassis	2	EA
30	064336 000	Pivot pin, front axle	1	EA
31	508020 000	Pivot pin, float cylinder axle	2	EA
32	064346 100	Axle float cylinder	1	EA
33	514482 002	CANTILT sensor ID152	1	EA
34	514482 004	CANTILT sensor ID154	1	EA
35	064339 001	Pin, 1st post/Level pivot/Chassis	1	EA
36	508021 000	Pin, level cylinder 1st post	4	EA

アイテム	部品番号	名前	数量	UOM
37	064345 100	Tilt cylinder	2	EA
38	509445 000	Bearing spacer	4	EA
39	064349 000	Bearing spacer	4	EA
40	505046 000	Nut, steering linkage	4	EA
41	057052 130	Bolt, front motor mount	4	EA
42	056069 012	WASHER DIN125A M12 ZP	4	EA
43	011238 005	Washer, rear motor	4	EA
44	056064 012	NUT HEX M12 X 1.75 GR 10.9 SELF LOCKING DIN 985	4	EA
45	064347 000	Level cover plate	1	EA
46	064384 000	Channel	1	EA
47	509462 000	Bottom axle pin	2	EA
48	011782 001	Bearing thrust washer	2	EA
49	064294 004	Actuator lever	1	EA
50	15 0489	Location pad	1	EA
51	503995 000	Bracket, proximity switch	1	EA
52	509535 000	Axle spacers 6 mm	8	EA
53	011257 024	Bolt, 5/8 x 3 UNC HHC	4	EA
54	514482 001	CANTILT sensor ID151	1	EA
55	514482 003	CANTILT sensor ID153	1	EA

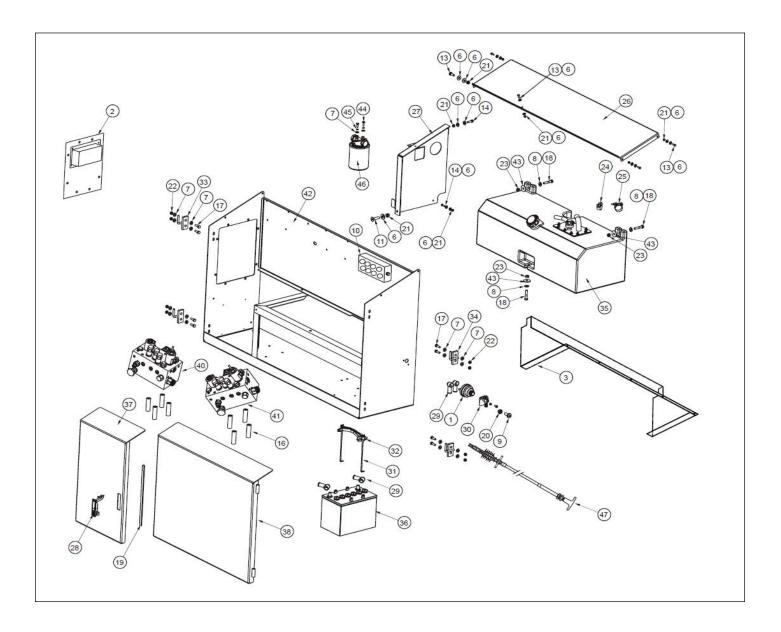


アイテム	部品番号	名前	数量	UOM
Not Shown	514487 000	LOWER CONTROL PANEL ASSEMBLY CE		EA
1	514488 000	LCB weldment	1	EA
2	510521 000	GROUND OP SWITCH (ENABLE)	1	EA
3	510522 000	TOGGLE SWITCH (RAISE/LOWER)	1	EA
4	514132 000	BOOT	2	EA
5	510542 000	PUSHBUTTON BLACK C/W 1 N/O CON	2	EA
6	3087803	EZCal Panel Trionics	1	EA
7	512543 000	3 POS'N KEY SWITCH STAYPUT	1	EA
8	510524 000	PUSH/PULL SW ASSY W/NC CONTACT	1	EA
9	514496 000	LCB front panel	1	EA
10	505082 014	Button HD screw M5 x 14 LG	4	EA
11	512366 000	4 WAY PANEL PLUG	2	EA
12	514489 000	Overlay	1	EA
13	514622 000	2 way connector Deutsch	2	EA
14	514626 000	4 way connector, Deutsch	1	EA
15	514624 000	Wedge, Deutsch W2P	2	EA
16	509750 000	Wedge, Deutsch W4P	1	EA
17	514627 000	CONN, DEUTSCH DT06 8SA	1	EA
18	514629 000	LOCK WEDGE W8P	1	EA
19	509743 000	12 way connector, Deutsch	4	EA
20	509744 000	Wedge, Deutsch W12P	4	EA
21	13485 01	Trionics GP400C	1	EA
22	510155 000	3WAY PANEL PLUG SW TWIST RELEASE E/STOP; SCHNEIDER	1	EA
23	512817 000	15WAY PANEL PLUG	4	EA
24	512934 000	LED RED 12V	1	EA
25	502588 000	ALARM, ECCO BEEPING 6 28VDC	1	EA
26	13485 03	Trionics TBM	1	EA

アイテム	部品番号	名前	数量	UOM
27	509755 000	Mate N lock socket contact	4	EA
28	509741 000	FUSE HOLDER	1	EA
29	509740 002	10 AMP blade fuse	1	EA
30	100338 013	CRIMP PIN DEUTSCH	48	EA
31	501251 016	SBHCS M4 x .7 x 16 GR 10.9 black finish	4	EA
32	056069 004	Wshr, SteelFlatWshr M4 DIN125	4	EA
33	056066 004	NUT NYLOCK DIN985 M4 8.0 ZP	4	EA



アイテム	部品番号	名前	数量	UOM
1	063905 010	Seal kit steer cylinder	1	EA
2	064345 010	Seal kit tilt cylinder	1	EA
3	064346 010	Seal kit axle float cylinder	1	EA
1	063905 101	Steer cylinder	1	EA
2	064345 100	Tilt cylinder	1	EA
3	064346 100	Axle float cylinder	1	EA

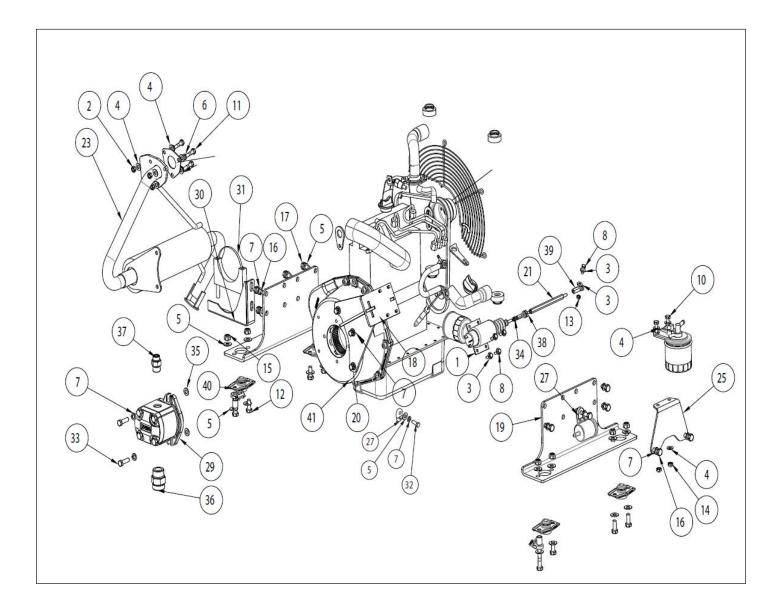


アイテム	部品番号	名前	数量	UOM
Not Shown	505505 000	CONTROL MODULE ASSEMBLY		EA
1	302 0049	Switch Battery Disconnect	1	EA
2	514487 000	LOWER CONTROL PANEL ASSEMBLY CE	1	EA
Not Shown	514487 001	LOWER CONTROL PANEL ASSEMBLY ANSI	1	EA
3	510505 000	Cover, hydraulic hoses	1	EA
5	5563048	FLAT WASHER M 5	6	EA
6	510588 006	WSHR FLAT M6	8	EA
7	510588 008	M8, plain washer	10	EA
8	510588 010	M10, plain washer	3	EA
9	510593 012	Pan head screw, M5 x 12 mm	2	EA
10	13 2367	Manifold tank line drain	1	EA
11	510567 025	CSK socket head screw, M6 x 25 mm	1	EA
12	058490 025	Bolt, M5 x 25 mm	4	EA
13	058491 016	BOLT HEXSETSCREW DIN933 M6 X 16MM 8.8 ZP	5	EA
14	058491 020	HHCS M6 X 1 X 20 G8.8 DIN 933	2	EA
16	510477 000	Stand, manifold mounting	8	EA
17	058492 025	BOLT HEXSETSCREW DIN933 M8 X 25MM 8.8 ZP	8	EA
18	056060 050	Bolt, HexBolt DIN931 M10 x 50m	3	EA
19	PCA015	Rubber Channel Section	1	EA
20	056066 005	Nut NylockNut DIN985 M5 8.0 Zi	6	EA
21	056066 006	Nut NylockNut DIN985 M6 8.0 Zi	8	EA
22	056066 008	NUT NYLOCKNUT DIN985 M8 8.0 ZP	8	EA
23	056064 010	Nut NylockNut DIN985 M10 10.0	3	EA
24	3618 26	Hose Clamp 26 28mm	1	EA

アイテム	部品番号	名前	数量	UOM
25	3618 32	Hose Clamp 34 37mm	1	EA
26	12716 13	Top Plate	1	EA
27	515293 000	Cabinet Support	1	EA
28	8342416	Latch, Adjustable Trigger, Key 508CH	1	EA
29	3040269	Boot Cable Entry Black I/O GA	4	EA
30	300840	Lock Out Lever Assembly	1	EA
31	502197 000	M8 x 300 hook bolt	2	EA
32	064040 000	Angle battery hold down	1	EA
33	11470	LEFT HAND HINGE WELDMENT, UPPER	2	EA
34	11470 1	RIGHT HAND HINGE WELDMENT, UPPER	2	EA
35	11558	Hydraulic Tank Assembly	1	EA
36	062299 002	BATTERY 12vdc	1	EA
37	11679	Cabinet Door Small	1	EA
38	11680	Cabinet Door Large	1	EA
40	514721 000	HYDRAULIC VALVE BLOCK DRIVE	1	EA
41	514720 000	HYDRAULIC VALVE BLOCK MOVEMENT	1	EA
42	514722 000	Control cabinet weld	1	EA
43	5560179	Flat Washer Special	3	EA
44	058492 020	Bolt HexSetScrew DIN933 M8 x 2	2	EA
45	056021 008	Washer SpringWasher DIN127B M8	2	EA
46	508078 001	Filter assembly	1	EA
Not Shown	508078 000	Filter	1	EA
Not Shown	508078 002	Filter head	1	EA
47	503789 002	Emergency down cable	1	EA

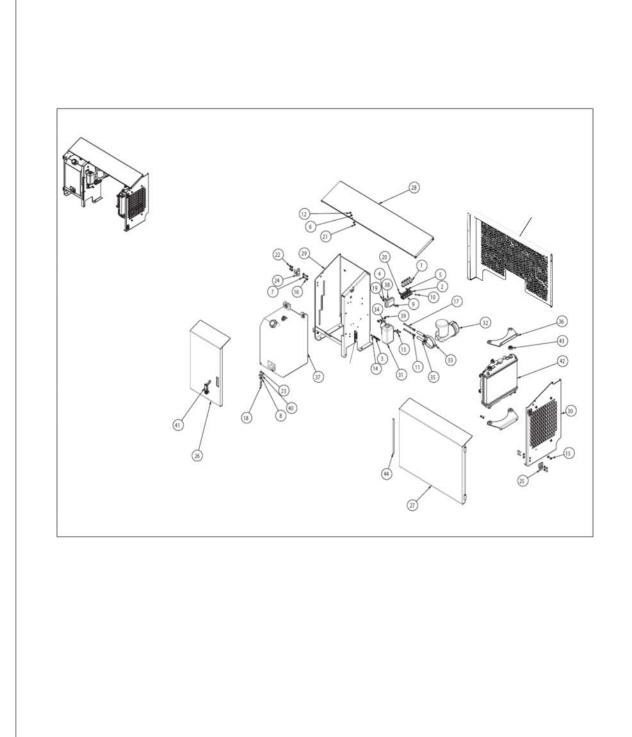
CONTROL MODULE ASSEMBLY

アイテム	部品番号	名前	数量	UOM
48	515611 000	BEACON ASSY AMBER	1	EA



アイテム	部品番号	名前	数量	UOM
Not Shown	14004	Kubota D902 Engine		EA
1	304 0174	Solenoid	1	EA
2	3602 08	Metric Hex Nut	3	EA
3	3603 06	Plain Washer	10	EA
4	3603 08	Plain Washer	11	EA
5	3603 10	Plain Washer	23	EA
6	3605 08	Spring Washer	4	EA
7	056021 008	Washer SpringWasher DIN127B M8	3	EA
8	3610 06020	Metric Bolt	5	EA
9	3610 08020	Metric Bolt	1	EA
10	3610 08030	Metric Bolt	2	EA
11	3610 08040	Metric Bolt	3	EA
12	3610 10025	Metric Bolt	8	EA
13	3611 06	Metric Nyloc Nut	5	EA
14	3611 08	Metric Nyloc Nut	2	EA
15	3611 10	Metric Nyloc Nut	8	EA
16	3617 10020	Metric Bolt	7	EA
17	3617 10025	Metric Bolt	5	EA
18	13986	RPM Solenoid Mount Bracket	1	EA
19	12944	Engine Mount Feet	2	EA
20	058492 025	BOLT HEXSETSCREW DIN933 M8 X 25MM 8.8 ZP	3	EA
21	13023	Trottle Lever	1	EA
22	14004	Kubota D902 Engine	1	EA
23	13904	Exhaust SRxx70 D902	1	EA
25	13095	Fuel Filter Bracket	1	EA
27	13164	Cable Tie Mount M10	4	EA
29	514502 000	Pump SAE A, 9 spline 14cc	1	EA
30	14020	Muffler Support	1	EA

アイテム	部品番号	名前	数量	UOM
31	13905	Saddle Clamp	1	EA
32	60017 007	1" x 3/8 UNC Bolt	3	EA
33	60017 010	1" x 3/8 UNC Bolt	2	EA
34	60021 008	1/4" NF Hex Nut	1	EA
35	60030 049	3/8" Plain Washer	2	EA
36	512968 000	Hyd Fitting Straight ORFS(16) SAE(16)	1	EA
37	512969 000	Hyd Fitting Straight ORFS(08) SAE(10)	1	EA
38	2650001	Swivel Inline	1	EA
39	2690004	Rod End	1	EA
40	7630208	Engine Mount	4	EA
41	13987	Coupling KEA bell housing kit	1	EA
42	515952 000	FAN,SUCTION (not illustrated)	1	EA
43	516251 000	Gasket, Exhaust Side	1	EA
44	516251 001	Gasket,Cylinder Head Side(Not Illustrated)	1	EA

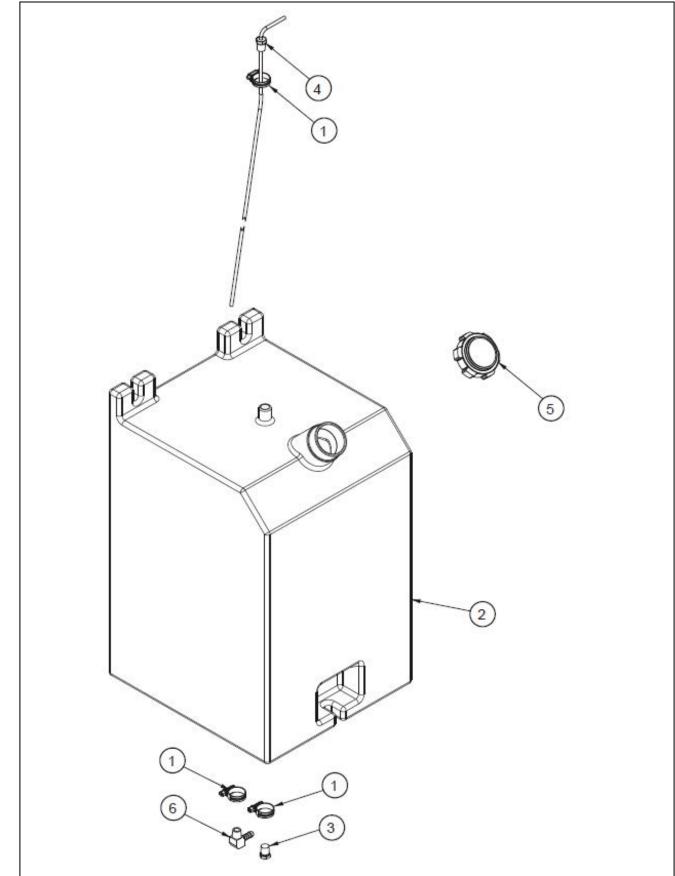


アイテム	部品番号	名前	数量	UOM
Not Shown	SL26/30SL Kubota D902	ENGINE CABINET ASSEMBLY		EA
1	1650 010	Relay 12V	4	EA
2	514612 000	Plugin relay base	4	EA
3	3602 06	Metric Hex Nut	1	EA
4	3603 04	Plain Washer	2	EA
5	3603 05	Plain Washer	2	EA
6	3603 06	Plain Washer	18	EA
7	3603 08	Plain Washer	26	EA
8	3603 10	Plain Washer	3	EA
9	3604 04035	Pan Head Screw	2	EA
10	3604 05012	Pan Head Screw	2	EA
11	3605 08	Spring Washer	2	EA
12	3610 06016	Metric Bolt	5	EA
13	3610 06020	Metric Bolt	2	EA
14	3610 06025	Metric Bolt	1	EA
15	3610 08020	Metric Bolt	4	EA
16	3610 08030	Metric Bolt	8	EA
17	3610 08100	Metric Bolt	2	EA
18	3610 10050	Metric Bolt	3	EA
19	3611 04	Metric Nyloc Nut	2	EA
20	3611 05	Metric Nyloc Nut	2	EA
21	3611 06	Metric Nyloc Nut	8	EA
22	3611 08	Metric Nyloc Nut	12	EA
23	3611 10	Metric Nyloc Nut	3	EA
24	13869 01	Cabinet Hinge, LH	2	EA
25	13869 02	Cabinet Hinge, RH	2	EA
26	11679	Cabinet Door Small	1	EA
27	11680	Cabinet Door Large	1	EA
28	12716 13	Top Plate	1	EA

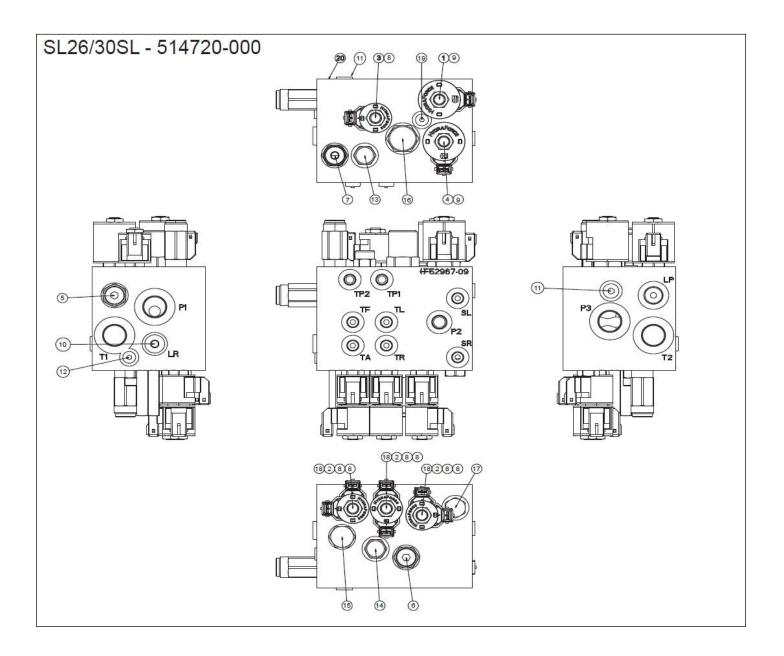
アイテム	部品番号	名前	数量	UOM
29	12638	Engine cabinet Tank side (BEFORE SN SL30 01 XXXX00110 / SL26 01 XXXX00043)	1	EA
29	515321 000	Engine cabinet Tank side (AFTER SN SL30 01 XXXX00111 / SL26 01 XXXX00044)	1	EA
30	12938 1	Cabinet End Radiator Vent	1	EA
30	515320 000	Cabinet End Radiator Vent (AFTER SN SL30 01 XXXX00111 / SL26 01 XXXX00044)	1	EA
31	13086 03	Radiator Overflow Bottle	1	EA
32	13086 04	Air Filter Assembly	1	EA
Not Shown	7631192	Element		EA
33	13086 05	Air Filter Bracket	1	EA
34	13086 06	Overflow Attachment Bracket	1	EA
35	13098	Air Filter Support	2	EA
36	13099 1	Radiator Mount	2	EA
37	13106 2A	Fuel Tank Assembly	1	EA
38	13806	Fuse Block Blade x 6	1	EA
38	509740 000	FUSE 20A	2	EA
38	515531 000	FUSE 30A	1	EA
38	13553 40	FUSE 40A	1	EA
39	65004 008	Rubber Grommet	1	EA
40	5560179	Flat Washer Special	3	EA
41	8342416	Latch, Adjustable Trigger, Key 508CH	1	EA
42	***	Isolator mount Kubota	1	EA
43	***	Isolator mount Kubota	4	EA
44	PCA015	Rubber Channel Section	1	EA
45	512347 000	COVER, ENGINE MODULE REAR	1	EA
46	446086	Fuse Block	1	EA

ENGINE CABINET ASSEMBLY

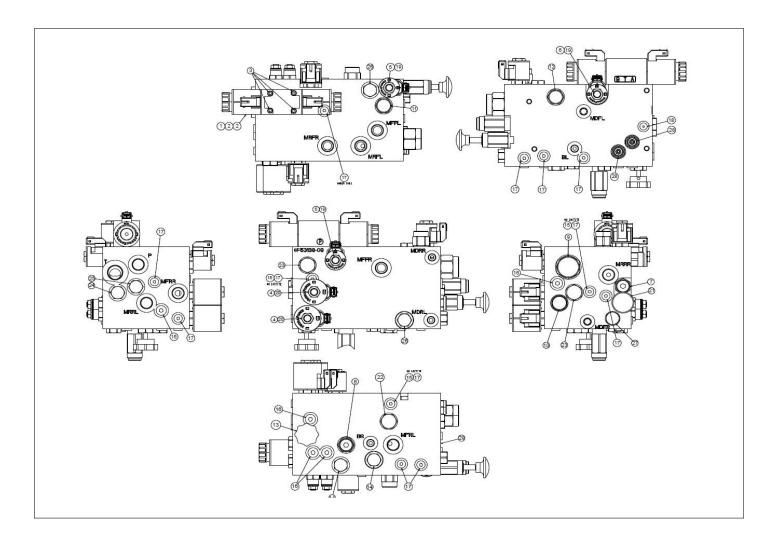
アイテム	部品番号	名前	数量	UOM
47	010148 003	Fuse 350 A	1	EA
48	515611 000	BEACON ASSY AMBER	1	EA



アイテム	部品番号	名前	数量	UOM
Not Shown	13106 2a	FUEL TANK ASSEMBLY DIESEL		EA
1	3618 11	Hose Clamp 11 25mm ZP	1	EA
2	13106 1	Fuel Tank	1	EA
3	13108 04	Plug 1/4 NPTM	1	EA
4	13109	Fuel Return Weld	1	EA
5	605256	Cap, Vented	1	EA
6	967309	Male Elbow 5/16" x 1/4" BSPT	1	EA

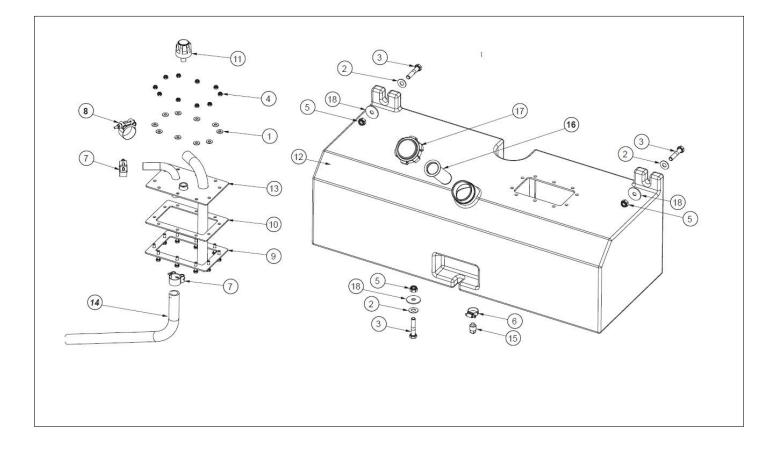


アイテム	部品番号	名前	数量	UOM
Not Shown	514720 000	HYDRAULIC VALVE BLOCK MOVEMENT		EA
1	510740 000	Cartridge (PORT: SV5)	1	EA
2	510741 000	Cartridge (PORT: SV 1, 2, 3)	3	EA
3	510742 000	Cartridge (PORT: SV4)	1	EA
4	510743 000	Valve (PORT: SPI)	1	EA
5	510744 000	Valve (PORT: RV2)	1	EA
6	510745 000	Valve (PORT: RV1)	1	EA
7	510746 000	Valve (PORT: RV3)	1	EA
8	514868 000	Coil (PORT: CL2)	7	EA
9	514869 000	Coil (PORT: CL1)	2	EA
10	510749 000	Plug (PORT: PLG3B)	1	EA
11	510750 000	Plug (PORT: PLG6)	2	EA
12	510751 000	Plug (PORT: PLG4)	1	EA
13	510752 000	Valve (PORT: FR2)	1	EA
14	510753 000	Valve (PORT: FR1)	1	EA
15	510754 000	Valve (PORT: EP1)	1	EA
16	510755 000	Valve (PORT: EC1)	1	EA
17	510756 000	Cartridge (PORT: DC1)	1	EA
18	510757 000	Valve (PORT: CV 1, 2, 3)	3	EA
19	510758 000	Valve (PORT: CV4)	1	EA
20	510759 000	Block (PORT: BLK)	1	EA

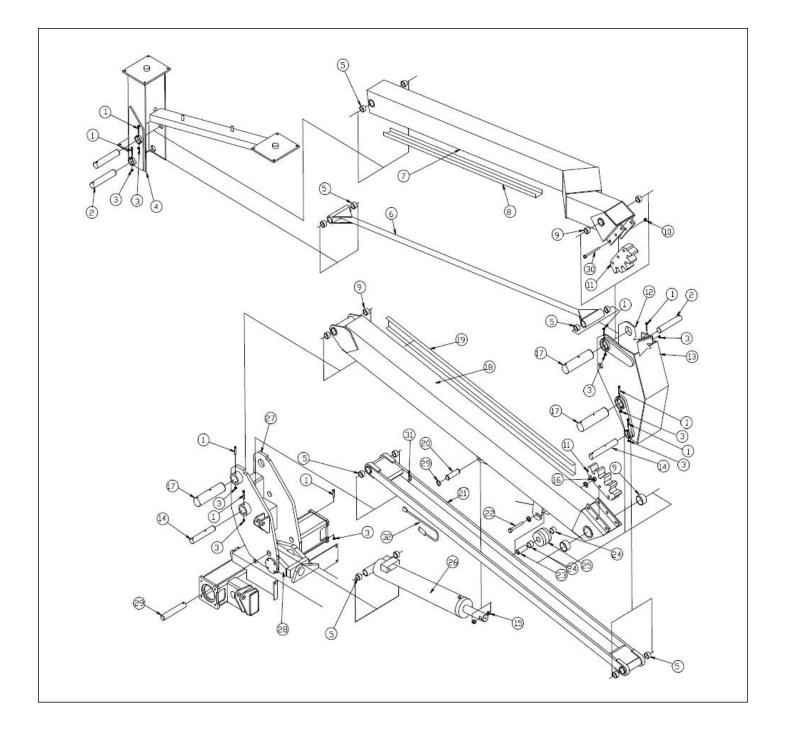


アイテム	部品番号	名前	数量	UOM
Not Shown	514721 000	HYDRAULIC VALVE BLOCK DRIVE		EA
1	510760 000	Cartridge (PORT: SVDI)	1	EA
2	514878 000	Coil (PORT: CL3)	2	EA
3	510762 000	Head cap screw (PORT: CSI)	4	EA
4	510763 000	Cartridge (PORT: SV4, SV5)	2	EA
5	510764 000	Cartridge (PORT: SVI3)	1	EA
6	510765 000	Cartridge (PORT: SV8, SV11)	2	EA
7	510766 000	Valve (PORT: RV4)	1	EA
8	510767 000	Valve (PORT: PR1)	1	EA
9	510768 000	Valve (PORT: PD2)	1	EA
10	510769 000	Valve (PORT: PD1)	1	EA
11	510770 000	Valve (PORT: PD3)	1	EA
12	510771 000	Valve (PORT: PD4)	1	EA
13	510772 000	Valve (PORT: NV1)	1	EA
14	510773 000	Valve (PORT: LS2, LS4)	2	EA
15	510774 000	Orifice plug (PORT: ORF1, ORF2, ORF3)	3	EA
16	510750 000	Plug (PORT: PLG6)	5	EA
17	510751 000	Plug (PORT: PLG4)	12	EA
18	510775 000	Plug (PORT: PLG3)	1	EA
19	514868 000	Coil (PORT: CL2)	3	EA
20	514869 000	Coil (PORT: CL1)	2	EA
21	510778 000	Valve (PORT: HP1)	1	EA
22	510779 000	Valve (PORT: FD2)	1	EA
23	510780 000	Valve (PORT: FD1, FD3)	2	EA
24	510781 000	Valve (PORT: FC2)	1	EA
25	510782 000	Valve (PORT: FC1)	1	EA
26	510783 000	Cartridge (PORT: CV5, CV6)	2	EA
27	510784 000	Valve (PORT: PC3)	1	EA

アイテム	部品番号	名前	数量	UOM
28	510785 000	Valve (PORT: CBV1, CBV2)	2	EA
29	510786 000	Block (BLK)	1	EA



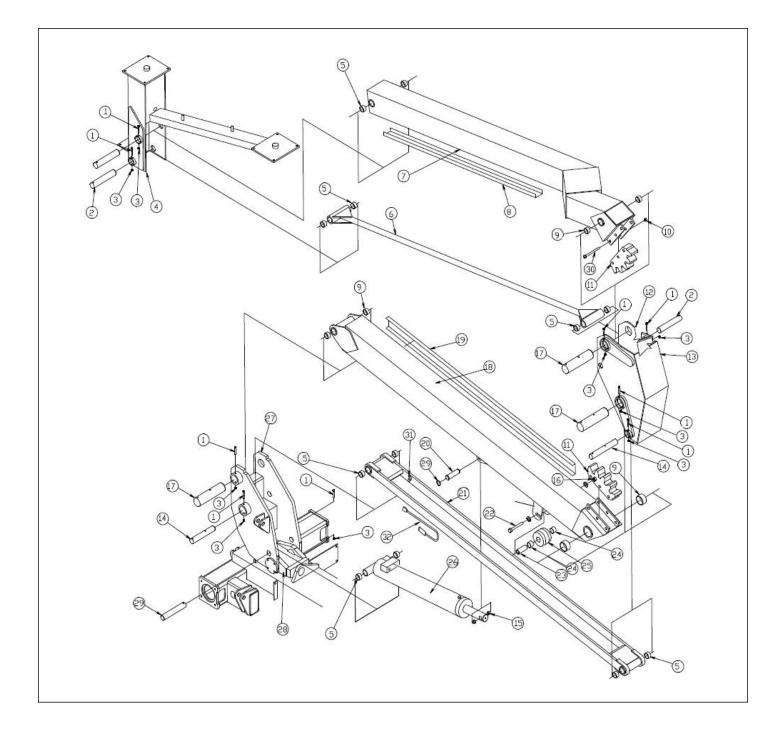
アイテム	部品番号	名前	数量	UOM
Not Shown	11558	Hydraulic Tank Assembly		EA
1	056069 006	WSHR STEELFLATWSHE M6 DIN125A	10	EA
2	056069 010	Washer, SteelFlatWasher DIN125A M10 ZincPlated	3	EA
3	056060 050	Bolt, HexBolt DIN931 M10 x 50m	3	EA
4	056066 006	Nut NylockNut DIN985 M6 8.0 Zi	10	EA
5	056064 010	Nut NylockNut DIN985 M10 10.0	3	EA
6	3618 11	Hose Clamp 11 25mm ZP	1	EA
7	3618 26	Hose Clamp 26 28mm	2	EA
8	3618 32	Hose Clamp 34 37mm	1	EA
9	11430 1	Base Plate Weld	1	EA
10	11430 5	Gasket	1	EA
11	11487	Filter Breather	1	EA
12	11558 1	Tank 13 Gal	1	EA
13	11558 2	Top plate weld, plated	1	EA
14	11558 8	Tank Inner Hose	1	EA
15	452756	Plug, Magnetic 3/8 NPT	1	EA
16	605246	Strainer Hyd Tank Fill	1	EA
17	605256	Cap, Vented	1	EA
18	5560179	Flat Washer Special	3	EA



アイテム	部品番号	名前	数量	UOM
Not Shown	505602 000	ELEVATING ASSEMBLY SL26RTE		EA
1	011254 024	Bolt, Pin lock 3/8	9	EA
2	064090 000	Pivot pin, upper T bar & up boom PED	3	EA
3	011248 006	Locknut 3/8 16	9	EA
4	064111 001	Pedestal weldment (Before SL26 01 00066)	1	EA
4	513285 000	Pedestal weldment (After SL26 01 00090+ inc. 00067,00074,00073)	1	EA
5	062649 020	Bushing, all 1.75 pins	12	EA
6	064087 000	Upper tension bar (Before SL26 01 00066)	1	EA
6	513289 000	Upper tension bar (After SL26 01 00090+ inc. 00067,00074,00073)	1	EA
7	064078 002	Upper boom (Before SL26 01 00066)	1	EA
7	513255 000	Upper boom (After SL26 01 00090+ inc. 00067,00074,00073)	1	EA
8	064451 000	Channel, wire cover (upper boom)	1	EA
9	062642 030	Bushing, all 2.75 pins	6	EA
10	011248 016	Nut (roller)	6	EA
11	064089 000	Gear segment	2	EA
12	013336 001	FITTING, GREASE	16	EA
13	064070 002	2nd Post weldment (Before SL30 01 00168 / SL26 01 00066)	1	EA
13	513219 000	2nd Post weldment (After SL30 01 00177+ inc.00169,00173 / SL26 01 00090+ inc. 00067,00074,00073)	1	EA
14	064094 000	Pivot pin, cylinder body 1st post	2	EA
15	062649 010	Flanged bushing	2	EA
16	011248 016	Nut (roller)	1	EA

アイテム	部品番号	名前	数量	UOM
17	064095 000	Pivot pin, lower boom & upper boom 2nd	3	EA
18	064060 003	Lower boom (Before SL26 01 00066)	1	EA
18	513278 000	Lower Boom Weldment (After SN SL26SL 01 00112)	1	EA
18	513278 000	Lower Boom Weldment (After SN SL26SL 01 00112)	1	EA
20	064093 000	Pivot pin, cylinder rod lower boom	1	EA
19	064450 000	Channel, wire cover (lower boom)	1	EA
21	064084 001	Lower tension bar (Before SL26 01 00066)	1	EA
21	513288 000	Lower tension bar (After SL26 01 00090+ inc. 00067,00074,00073)	1	EA
22	014918 048	Bolt (roller, boom rest)	1	EA
23	064356 000	Roller pin (Before SN SL26SL 01 00111 / SL30SL 01 00211) Not used on SLRTE	1	EA
24	027931 057	Bushing, roller (Before SN SL26SL 01 00111 / SL30SL 01 00211) Not used on SLRTE	2	EA
25	064354 000	Roller (Before SN SL26SL 01 00111 / SL30SL 01 00211) Not used on SLRTE	1	EA
26	063904 101	HYDRAULIC CYLINDER ASSEMBLY MAIN LIFT	1	EA
27	064320 001	1st post weldment (Before SL30 01 00168 / SL26 01 00066)	1	EA
27	513347 000	1st post weldment (After SL30 01 00177+ inc.00169,00173 / SL26 01 00090+ inc. 00067,00074,00073)	1	EA
28	064331 001	Leveller weldment (Before SL30 01 00168 / SL26 01 00066)	1	EA
28	513392 000	Leveller weldment (After SL30 01 00177+ inc.00169,00173 / SL26 01 00090+ inc. 00067,00074,00073)	1	EA

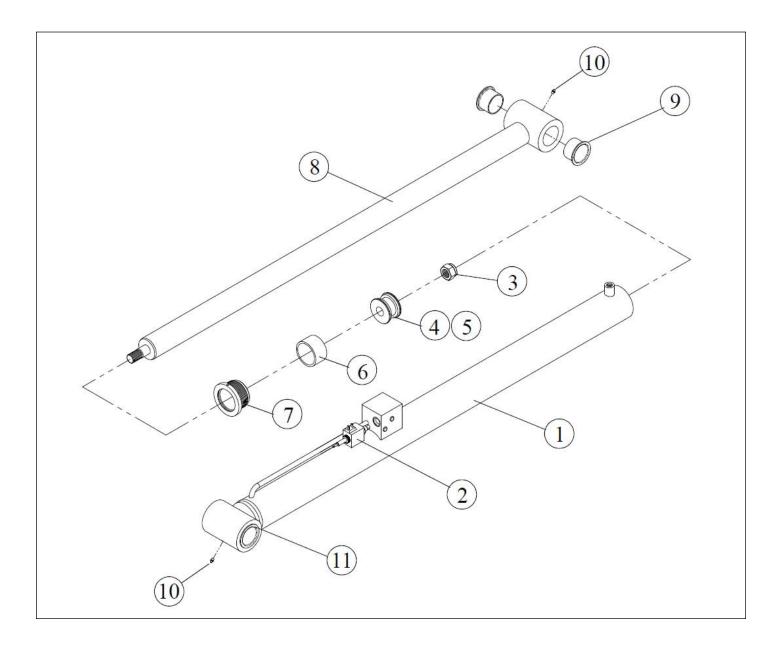
アイテム	部品番号	名前	数量	UOM
29	064094 000	Pivot pin, cylinder body 1st post	1	EA
30	014918 056	Bolt,1 8 UNC x 7	6	EA
31	504559 000	Overload EZfit angle transducer	2	EA
32	504560 000	Overload 3000 PSI pressure transducer	1	EA
33	515555 000	Lower Boom Support (After SN SL26SL 01 00112) (Not illustrated)	1	EA



アイテム	部品番号	名前	数量	UOM
Not Shown	505502 000	ELEVATING ASSY SL30SL		EA
1	011254 024	Bolt, Pin lock 3/8	9	EA
2	064090 000	Pivot pin, upper T bar & up boom PED	3	EA
3	011248 006	Locknut 3/8 16	9	EA
4	064111 002	Pedestal weldment (Before SL30 01 00168)	1	EA
4	513237 000	Pedestal weldment (After SL30 01 00177+ inc.00169,00173)	1	EA
5	062649 020	Bushing, all 1.75 pins	12	EA
6	064536 000	Upper tension bar (Before SL30 01 00168)	1	EA
6	513247 000	Upper tension bar (After SL30 01 00177+ inc.00169,00173)	1	EA
7	064521 000	Upper boom (Before SL30 01 00168)	1	EA
7	513182 000	Upper boom (After SL30 01 00177+ inc.00169,00173)	1	EA
8	064538 000	Channel, wire cover (upper boom)	1	EA
9	062642 030	Bushing, all 2.75 pins	6	EA
10	011248 016	Nut (roller)	6	EA
11	064089 000	Gear segment	2	EA
12	013336 001	FITTING, GREASE	16	EA
13	064070 002	2nd Post weldment (Before SL30 01 00168 / SL26 01 00066)	1	EA
13	513219 000	2nd Post weldment (After SL30 01 00177+ inc.00169,00173 / SL26 01 00090+ inc. 00067,00074,00073)	1	EA
14	064094 000	Pivot pin, cylinder body 1st post	2	EA
15	062649 010	Flanged bushing	2	EA
16	011248 016	Nut (roller)	1	EA
17	064095 000	Pivot pin, lower boom & upper boom 2nd	3	EA

アイテム	部品番号	名前	数量	UOM
18	064530 000	Lower boom (Before SL30 01 00168)	1	EA
18	513192 000	Lower boom (After SL30 01 00177+ inc.00169,00173)	1	EA
18	515780 000	Lower boom (After SN SL30SL 01 00212) On SL30RTE from first build	1	EA
19	064542 000	Channel, wire cover (lower boom)	1	EA
20	064093 000	Pivot pin, cylinder rod lower boom	1	EA
21	064531 001	Lower tension bar (Before SL30 01 00168)	1	EA
21	513236 000	Lower tension bar (After SL30 01 00177+ inc.00169,00173)	1	EA
22	014918 048	Bolt (roller, boom rest)	1	EA
23	064356 000	Roller pin (Before SN SL26SL 01 00111 / SL30SL 01 00211) Not used on SLRTE	1	EA
24	027931 057	Bushing, roller (Before SN SL26SL 01 00111 / SL30SL 01 00211) Not used on SLRTE	2	EA
25	064354 000	Roller (Before SN SL26SL 01 00111 / SL30SL 01 00211) Not used on SLRTE	1	EA
26	063904 101	HYDRAULIC CYLINDER ASSEMBLY MAIN LIFT	1	EA
27	064320 001	1st post weldment (Before SL30 01 00168 / SL26 01 00066)	1	EA
27	513347 000	1st post weldment (After SL30 01 00177+ inc.00169,00173 / SL26 01 00090+ inc. 00067,00074,00073)	1	EA
28	064331 001	Leveller weldment (Before SL30 01 00168 / SL26 01 00066)	1	EA
28	513392 000	Leveller weldment (After SL30 01 00177+ inc.00169,00173 / SL26 01 00090+ inc. 00067,00074,00073)	1	EA
29	064094 000	Pivot pin, cylinder body 1st post	1	EA

アイテム	部品番号	名前	数量	UOM
30	014918 056	Bolt,1 8 UNC x 7	6	EA
31	504559 000	Overload EZfit angle transducer	2	EA
32	504560 000	Overload 3000 PSI pressure transducer	1	EA
33	515549 000	Lower boom support (After SN SL26SL 01 00112 / SL30SL 01 00212) On SLRTE from first build	1	EA



アイテム	部品番号	名前	数量	UOM
Not Shown	063904 101	HYDRAULIC CYLINDER ASSEMBLY MAIN LIFT		EA
1	Contact product support	Bushing	1	EA
2	Contact product support	Bushing	1	EA
3	Contact product support	Bushing	1	EA
4	Contact product support	Bushing	1	EA
5	063904 010	Seal kit	1	EA
6	Contact product support	Bushing	1	EA
7	Contact product support	Bushing	1	EA
8	Contact product support	Bushing	1	EA
9	062649 010	Flanged bushing	2	EA
10	058819 000	M6 grease nipple	2	EA
11	Contact product support	Bushing	2	EA

ILLUSTRATED PARTS LIST

ELECTRICAL ASSEMBLY - PLATFORM CONTROL BOX

PART	DESCRIPTION	QTY
514485-000	Enclosure	1
514484-000	Enclosure lid	
514486-000	Platform control box overlay	1
510471-000	Joystick (Before SN SL30-01-XXXX00061 / SL26-01-XXXX000017)	1
13888	Joystick (After SN SL30-01-XXXX00062 / SL26-01-XXXX000018)	1
512934-000	Red LED	3
512935-000	Green LED	4
510542-000	Black flush push button c/w 1 N/O contact block	2
510524-000	Twist & release E/stop c/w 1 N/C contact block	1
510521-000	Toggle switch, on-(on) IP65	5
514132-000	Boot	5
514491-000	Contact base with 1 N/O & 1 N/C contact blocks	1
514490-000	Rotary switch head 3 position stayput/stayput/return to centre	1
502588-000	Alarm	1
510472-000	Matrix board (Before SN SL30-01-XXXX00061 / SL26-01-XXXX000017)	1
3030169	Matrix board (After SN SL30-01-XXXX00062 / SL26-01-XXXX000018)	1
510157-000	12 - way panel plug	2
510156-000	9 - way panel plug	1
510154-000	6 - way panel plug	1
509755-000	Mate-N-lock socket contact	26
514604-000	Panel lock washer	1
514605-000	Panel locknut	1
100338-013	Crimp pin	7
3049862	14 - way connector	1
510671-000	Cable 1.0 mm CSA	5 m
510645-000	Seal strip	1.1 r
514945-000	Joystick harness	1

Table 6-26: SL26/30SL - 514483-000

ELECTRICAL ASSEMBLY - GROUND CONTROL PANEL

PART	DESCRIPTION	QTY
514496-000	Ground control panel	1
514488-000	Ground control enclosure	
514489-000	Ground control panel overlay	1
3087803	EZcal display	1
510524-000	Twist & release E/stop c/w 1 N/C contact block	1
512543-000	3 position stayput key switch (key removeable only in 1 position) c/w/2 N/O contact blocks	1
510521-000	Deadman toggle switch, on - (on) IP65	1
510522-000	Toggle switch, (on) - off - (on) IP65	1
514132-000	Boot	2
510542-000	Black flush push button c/w 1 N/O contact block	2
512366-000	4 - way panel plug	2
510155-000	3 - way panel plug	1
512817-000	15 - way panel plug	4
510145-000	Mate-N-lock socket contact	50
514622-000	Connector 2 way (crimp pin) panel mount receptacle	2
514626-000	Connector 4 way (crimp pin) panel mount receptacle	1
514624-000	Wedge for 2 way receptacle	2
509750-000	Wedge for 4 way receptacle	1
514627-000	Connector 8 way (crimp pin) panel mount receptacle	1
514629-000	Wedge for 8 - way receptacle	1
509743-000	Connector 12 way (crimp pin) panel mount receptacle	4
509744-000	Wedge for 12 way receptacle	4
100338-013	Crimp pin	48
13485-05	GP400C with SL software	1
13485-03	ТВМ	1
502588-000	Alarm	1
512934-000	Red LED	1
509740-002	Fuse 10 Amp blade	1
509741-000	Fuse holder	1
510671-000	Cable 1.0 mm CSA	4 m
510645-000	Seal strip	1.2 ו

Table 6-27: SL26/30SL - 514487-000

ILLUSTRATED PARTS LIST

ELECTRICAL ASSEMBLY - CABLE ASSEMBLIES

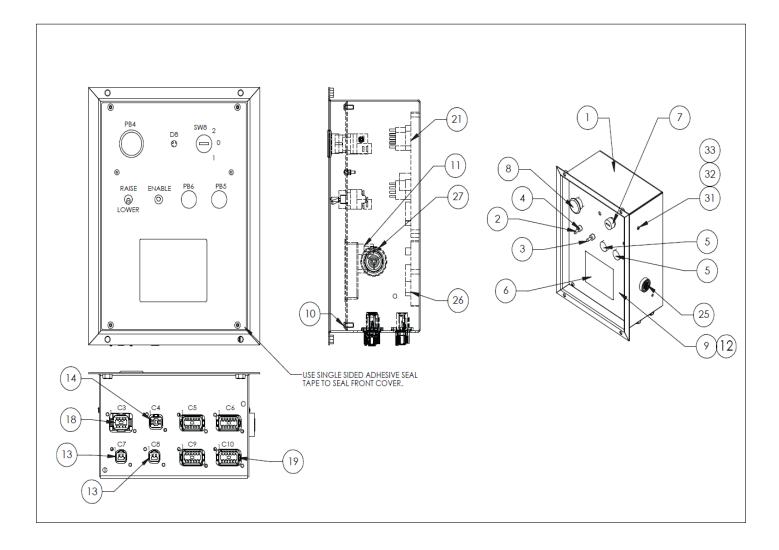
PART	DESCRIPTION	QTY
514608-000	Harness; platform extension SL26	1
514608-001	Harness; platform extension SL30	1
514609-000	Harness; platform SL26	1
514609-001	Harness; platform SL30	1
514610-000	Cable harness CANTILT short link SL26/30	2
514611-000	Cable harness CAN axle float SL26/30	1
514612-000	Cable harness engine SL26/30	1
514613-000	613-000 Cable harness Drive manifold SL26/30	
514614-000	514614-000 Cable harness lower valve SL26/30	
514615-000	Cable harness axle float valve SL26/30	1
514616-000	Cable harness movement manifold SL26/30	1
514618-000	Cable harness EZfits SL26/30 CE	1
514618-001	Cable harness EZfits SL26/30 ANSI	1

Table 6-28: SL26/30SL - Cable assemblies

ELECTRICAL ASSEMBLY - EXTERNAL COMPONENTS

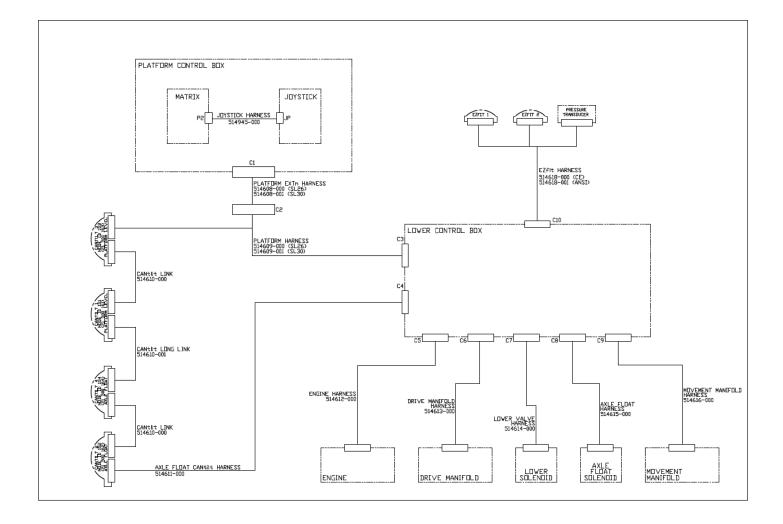
PART	DESCRIPTION	QTY
514482-001	CANTILT sensor #1	1
514482-002	CANTILT sensor #2	1
514482-003	CANTILT sensor #3	1
514482-004	CANTILT sensor #4	1
3030157	EZfit	2
501868-001	Horn	1

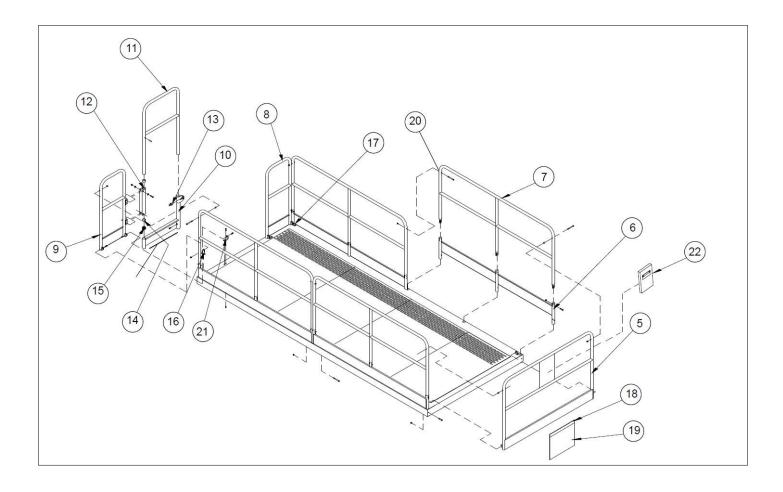
Table 6-29: SL26/30SL - External components



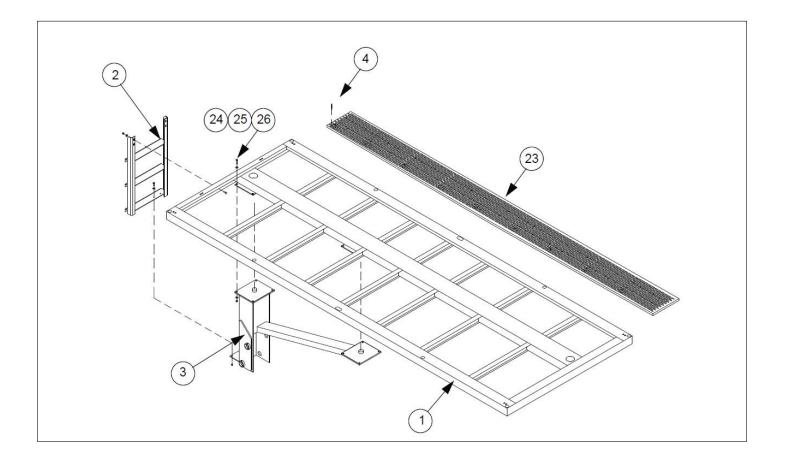
アイテム	部品番号	名前	数量	UOM
Not Shown	514487 001	LOWER CONTROL PANEL ASSEMBLY ANSI		EA
1	514488 000	LCB weldment	1	EA
2	510521 000	GROUND OP SWITCH (ENABLE)	1	EA
3	510522 000	TOGGLE SWITCH (RAISE/LOWER)	1	EA
4	514132 000	BOOT	2	EA
5	510542 000	PUSHBUTTON BLACK C/W 1 N/O CON	2	EA
6	3087803	EZCal Panel Trionics	1	EA
7	512543 000	3 POS'N KEY SWITCH STAYPUT	1	EA
8	510524 000	PUSH/PULL SW ASSY W/NC CONTACT	1	EA
9	514496 000	LCB front panel	1	EA
10	505082 014	Button HD screw M5 x 14 LG	4	EA
11	512366 000	4 WAY PANEL PLUG	2	EA
12	514489 000	Overlay	1	EA
13	514622 000	2 way connector Deutsch	2	EA
14	514626 000	4 way connector, Deutsch	1	EA
15	514624 000	Wedge, Deutsch W2P	2	EA
16	509750 000	Wedge, Deutsch W4P	1	EA
17	514627 000	CONN, DEUTSCH DT06 8SA	1	EA
18	514629 000	LOCK WEDGE W8P	1	EA
19	509743 000	12 way connector, Deutsch	4	EA
20	509744 000	Wedge, Deutsch W12P	4	EA
21	13485 01	Trionics GP400C	1	EA
22	510155 000	3WAY PANEL PLUG SW TWIST RELEASE E/STOP; SCHNEIDER	1	EA
23	512817 000	15WAY PANEL PLUG	4	EA
25	502588 000	ALARM, ECCO BEEPING 6 28VDC	1	EA
26	13485 03	Trionics TBM	1	EA
27	509755 000	Mate N lock socket contact	4	EA

アイテム	部品番号	名前	数量	UOM
28	509741 000	FUSE HOLDER	1	EA
29	509740 002	10 AMP blade fuse	1	EA
30	100338 013	CRIMP PIN DEUTSCH	48	EA
31	501251 016	SBHCS M4 x .7 x 16 GR 10.9 black finish	4	EA
32	056069 004	Wshr, SteelFlatWshr M4 DIN125	4	EA
33	056066 004	NUT NYLOCK DIN985 M4 8.0 ZP	4	EA

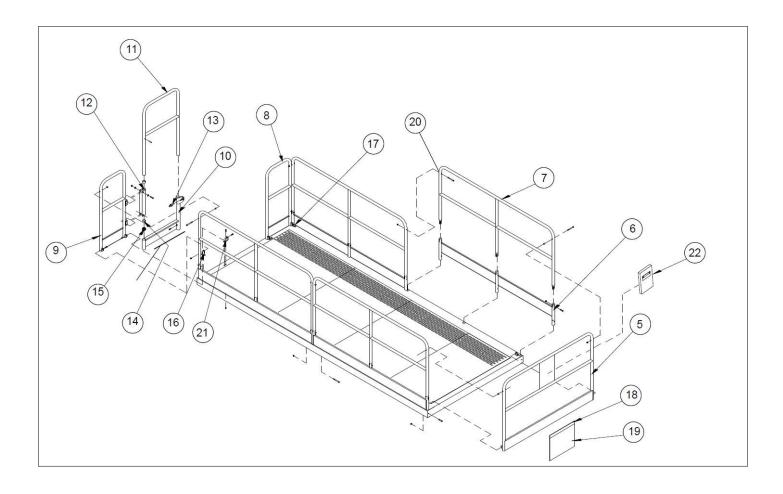




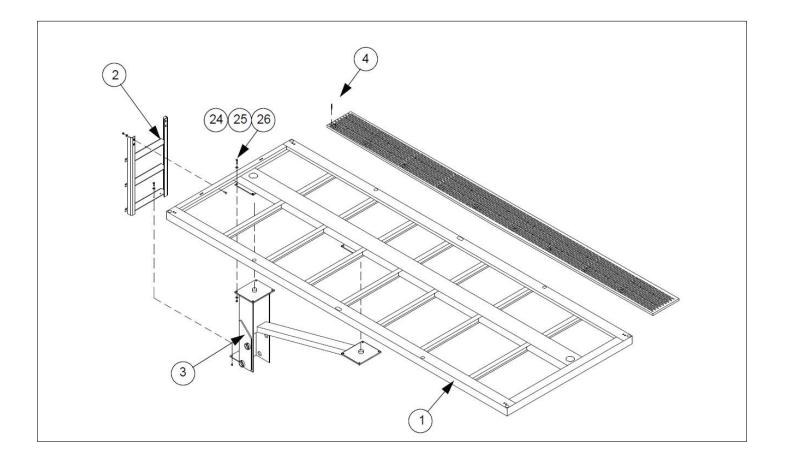
アイテム	部品番号	名前	数量	UOM
Not Shown	505503 000	PLATFORM ASSEMBLY SL30SL		EA
1	064540 011	Deck weldment (Before MAY 2017)	1	EA
1	515348 000	Deck weldment (After MAY 2017)	1	EA
2	510502 000	Ladder weldment	1	EA
3	064111 002	Pedestal weldment (Before SL30 01 00168)	1	EA
4	510678 000	Safe deck mounting	30	EA
5	064700 000	GUARDRAIL, FRONT	1	EA
6	064696 000	Kick plate, side (Before MAY 2017)	4	EA
6	515347 000	Kick plate, side (After MAY 2017)	4	EA
27	515346 000	Surf Plug Guard (option if Surf Plug fitted)	1	EA
7	064698 000	Guardrail, side	4	EA
8	064702 002	Guardrail, end left hand side	1	EA
9	064702 001	Guardrail, end right hand side	1	EA
10	067764 001	Kick plate, gate	1	EA
11	067883 000	Gate weldment	1	EA
12	067712 000	Gate pivot tube	1	EA
13	003570 005	RETAINING PIN ASSY.	1	EA
14	515659 000	OILITE BEARING #TFPI 22 TH 16	2	EA
15	066526 004	Gate spring	1	EA
16	064688 001	Bracket toe board pivot right hand	2	EA
17	064688 002	Bracket toe board pivot left hand	2	EA
18	064447 000	Skirt plate (rubber skirt)	1	EA
19	064448 000	Rubber skirt	1	EA
20	067695 000	Spacer	6	EA
21	064046 000	Rail mounting bracket	2	EA



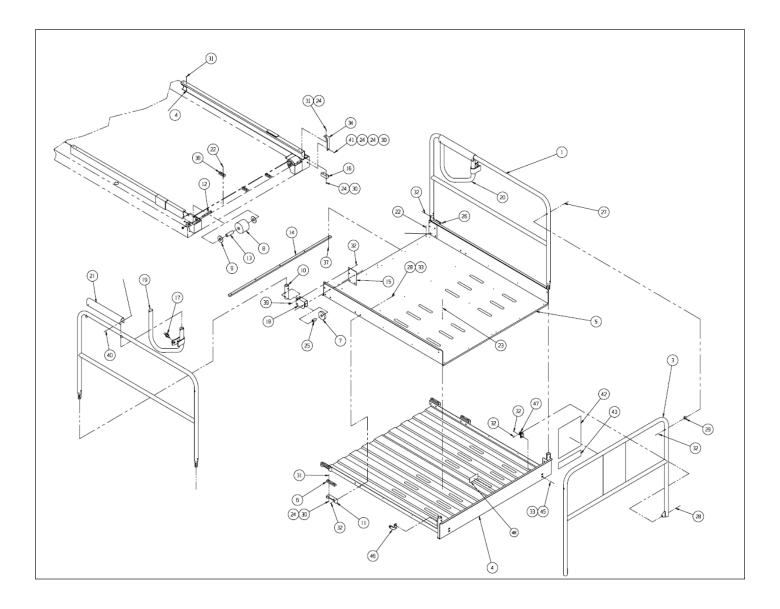
アイテム	部品番号	名前	数量	UOM
22	010076 000	Manual Enclosure	1	EA
23	510677 000	Safe deck, aluminium stabil	5	EA
24	057052 050	BOLTHEXBOLT DIN983 M12 X 50MM 10.9 DACROMET	8	EA
25	505087 012	Hardened washer, M12	16	EA
26	056064 012	NUT HEX M12 X 1.75 GR 10.9 SELF LOCKING DIN 985	8	EA
27	514743 000	Aluminium/Nylon Black Brush Strip	1	EA



アイテム	部日	品番号	名前	数量	UOM
Not Shown	505603 00	0	PLATFORM ASSEMBLY SL26RTE		EA
1	064100 01	1	Deck weldment	1	EA
2	510502 00	0	Ladder weldment	1	EA
3	064111 00	1	Pedestal weldment (Before SL26 01 00066)	1	EA
4	026554 00	2	Rivet (main deck)	24	EA
5	064700 00	0	GUARDRAIL, FRONT	1	EA
6	064695 00	0	Kick plate, side	4	EA
7	064697 00	0	Guardrail, side	4	EA
8	064702 00	2	Guardrail, end left hand side	1	EA
9	064702 00	1	Guardrail, end right hand side	1	EA
10	067764 00	1	Kick plate, gate	1	EA
11	067883 00	0	Gate weldment	1	EA
12	067712 00	0	Gate pivot tube	1	EA
13	003570 00	5	RETAINING PIN ASSY.	1	EA
14	515659 00	0	OILITE BEARING #TFPI 22 TH 16	2	EA
15	066526 00	4	Gate spring	1	EA
16	064688 00	1	Bracket toe board pivot right hand	2	EA
17	064688 00	2	Bracket toe board pivot left hand	2	EA
18	064447 00	0	Skirt plate (rubber skirt)	1	EA
19	064448 00	0	Rubber skirt	1	EA
20	067695 00	0	Spacer	6	EA
21	064046 00	0	Rail mounting bracket	2	EA
22	010076 00	0	Manual Enclosure	1	EA
24	057052 05	0	BOLTHEXBOLT DIN983 M12 X 50MM 10.9 DACROMET	8	EA
25	505087 01	2	Hardened washer, M12	16	EA
26	056064 01	2	NUT HEX M12 X 1.75 GR 10.9 SELF LOCKING DIN 985	8	EA

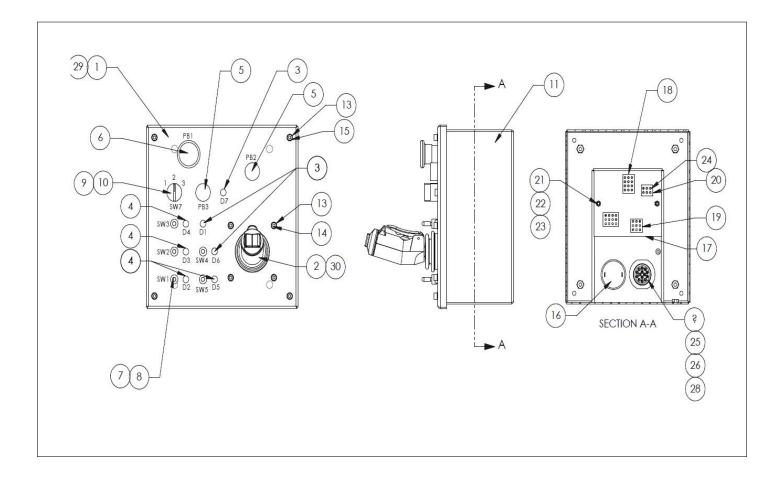


アイテム	部品番号	名前	数量	UOM
27	514743 000	Aluminium/Nylon Black Brush Strip	1	EA



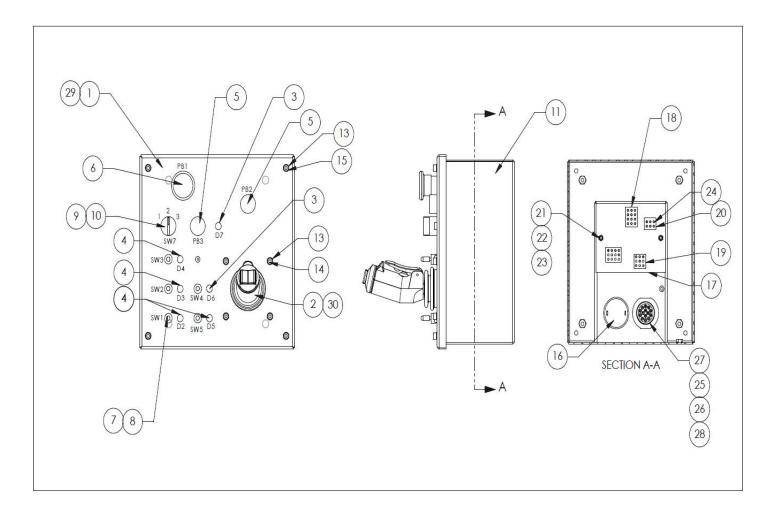
アイテム	部品番号	名前	数量	UOM
Not Shown	064617 002	PLATFORM ASSEMBLY SLIDE OUT SECTION SL26SL		EA
1	064785 000	Side rail	2	EA
3	064778 000	Front rail	1	EA
4	064763 000	Deck weldment (Before SN SL26SL 01 xxxx00092)	1	EA
4	515824 000	Deck Slide Out Weldment (After SN SL26SL 01 xxxx00093)	1	EA
5	064761 000	Floor (Aluminium)	1	EA
6	063727 000	Block	4	EA
7	064233 000	Wheel (narrow)	4	EA
8	064234 000	Wheel (wide)	2	EA
9	064235 000	Washer	4	EA
10	064776 000	Tube, rail support	2	EA
11	064425 000	Slide bracket (Before SN SL26SL 01 xxxx00092)	4	EA
11	515825 000	Slide Bracket (After SN SL26SL 01 xxxx00093)	4	EA
12	063990 003	Axle	2	EA
13	064249 000	Bushing (spanner)	2	EA
14	064256 000	Bearing strip (Ply Deck)	1	EA
14	515285 000	Bearing strip (Aluminium Deck)	1	EA
15	064795 000	Gusset plate (Before SN SL26SL 01 xxxx00092)	2	EA
15	515827 000	GUSSET, RH (After SN SL26SL 01 xxxx00093)	1	EA
15	515826 000	GUSSET, LH (After SN SL26SL 01 xxxx00093)	1	EA
16	064267 000	Bumper pad	4	EA
17	003570 001	Retaining pin assembly	2	EA
18	064774 000	Roller bracket	2	EA
19	064769 001	Right handle	1	EA
20	064769 002	Left handle	1	EA

アイテム	部品番号	名前	数量	UOM
21	064773 000	Handle bracket	2	EA
22	026553 008	Pop rivet 3/16 diameter 1/2 5/8 grip	12	EA
23	026553 002	Pop rivet 3/16 diameter 1/8 1/4 grip	30	EA
24	011240 004	Flat washer 1/4 standard	22	EA
25	064240 001	Bushing	2	EA
26	011254 018	Screw Cap 3/8 16 x 2 1/4	4	EA
27	011254 032	Screw CAP 3/8 16 x 4	2	EA
28	011254 010	Screw CAP 3/8 16 x 1 1/4	10	EA
29	067695 000	Spacer	2	EA
30	011248 004	Locknut 1/4 20	22	EA
31	011252 014	Screw 1/4 20 UNC hex hd x 1 3/4	10	EA
32	011248 006	Locknut 3/8 16	26	EA
33	011240 006	Flat washer 3/8 standard	12	EA
34	064775 000	Front angle	2	EA
37	011240 002	Washer #8	6	EA
38	064247 000	Guide slide	3	EA
39	011254 020	Screw cap 3/8 16 x 2 1/2	6	EA
40	011252 016	Screw cap 1/4 20 x 2	4	EA
41	011252 006	screw cap 1/4 20 hex hd x 3/4	2	EA
42	066550 006	Decal danger	1	EA
43	066551 003	Tipping hazard	1	EA
45	011254 008	Screw 3/8 16 hex hd x 1	4	EA
46	064688 001	Bracket toe board pivot right hand	1	EA
47	064688 002	Bracket toe board pivot left hand	1	EA
48	101251 001	Decal danger tip over	1	EA



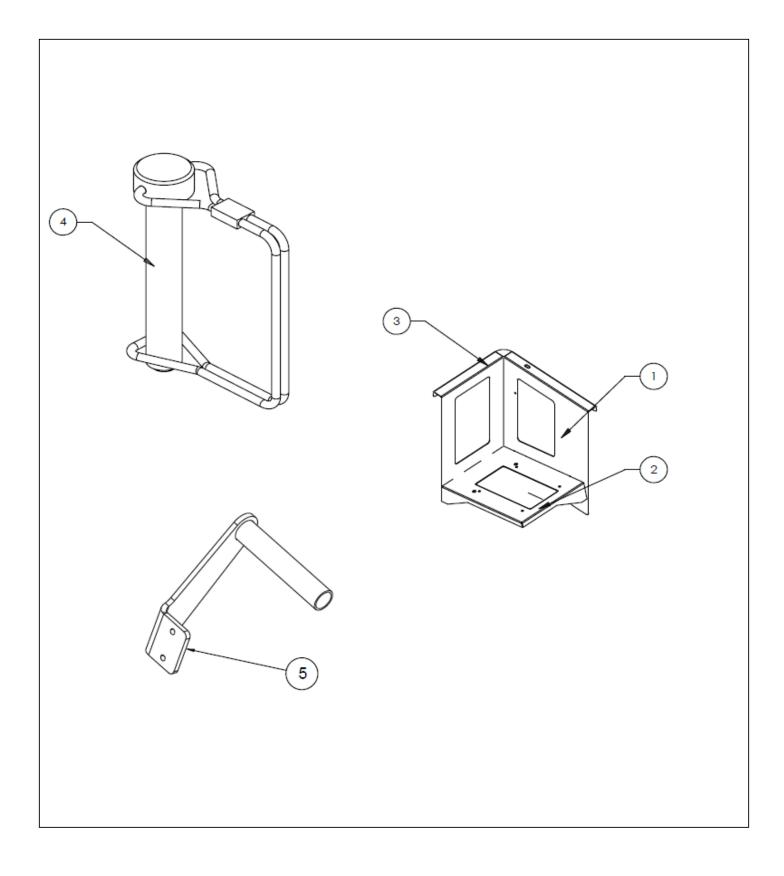
アイテム	部品番号	名前	数量	UOM
Not Shown	514483 000	UPPER CONTROL PANEL ASSEMBLY CE		EA
1	514484 000	A38 lower control panel	1	EA
2	510471 000	JOYSTICK (Before SN SL30 01 XXXX00061 / SL26 01 XXXX000017)	1	EA
2	13888	JOYSTICK, JR MERRITT WITH GUARD (HALL EFFECT) JULY 2017 AND AFTER	1	EA
3	512934 000	LED RED 12V	3	EA
4	512935 000	LED GREEN 12V	4	EA
5	510542 000	PUSHBUTTON BLACK C/W 1 N/O CON	2	EA
6	510524 000	PUSH/PULL SW ASSY W/NC CONTACT	1	EA
7	514132 000	BOOT	5	EA
8	510521 000	GROUND OP SWITCH (ENABLE)	5	EA
9	514491 000	Contact base 1 N/O 1 N/C	1	EA
10	514490 000	Switch head 3 way stayput/spring to centre	1	EA
11	514485 000	SL UCB enclosure	1	EA
12	056066 005	Nut NylockNut DIN985 M5 8.0 Zi	4	EA
13	056069 005	Washer SteelFlatWasher DIN125A	8	EA
14	058501 025	M5 x 25 S.H.C.S. GR 12.9	4	EA
15	058501 016	M5 x 16 S.H.C.S. GR 12.9	4	EA
16	502588 000	ALARM, ECCO BEEPING 6 28VDC	1	EA
17	510472 000	Matrix board (Before SN SL30 01 XXXX00061 / SL26 01 XXXX000017)	1	EA
17	3030169	Matrix board (After SN SL30 01 XXXX00062 / SL26 01 XXXX000018)	1	EA
18	510157 000	12 way panel plug	2	EA
19	510156 000	9WAY PANEL PLUG	1	EA

アイテム	部品番号	名前	数量	UOM
20	510154 000	6WAY PANEL PLUG	1	EA
21	058500 025	M4 x 25 SHCS 12.9	2	EA
22	056066 004	NUT NYLOCK DIN985 M4 8.0 ZP	2	EA
23	056069 004	Wshr, SteelFlatWshr M4 DIN125	2	EA
24	509755 000	Mate N lock socket contact	26	EA
25	514604 000	LOCKWASHER DEUTSCH 114021	1	EA
26	514605 000	LOCKNUT DEUTSCH 114020 90	1	EA
27	3049862	Receptacle, Flgd HD30, 14 Way	1	EA
28	100338 013	CRIMP PIN DEUTSCH	7	EA
29	514486 000	Overlay	1	EA
30	514945 000	Joystick harness	1	EA

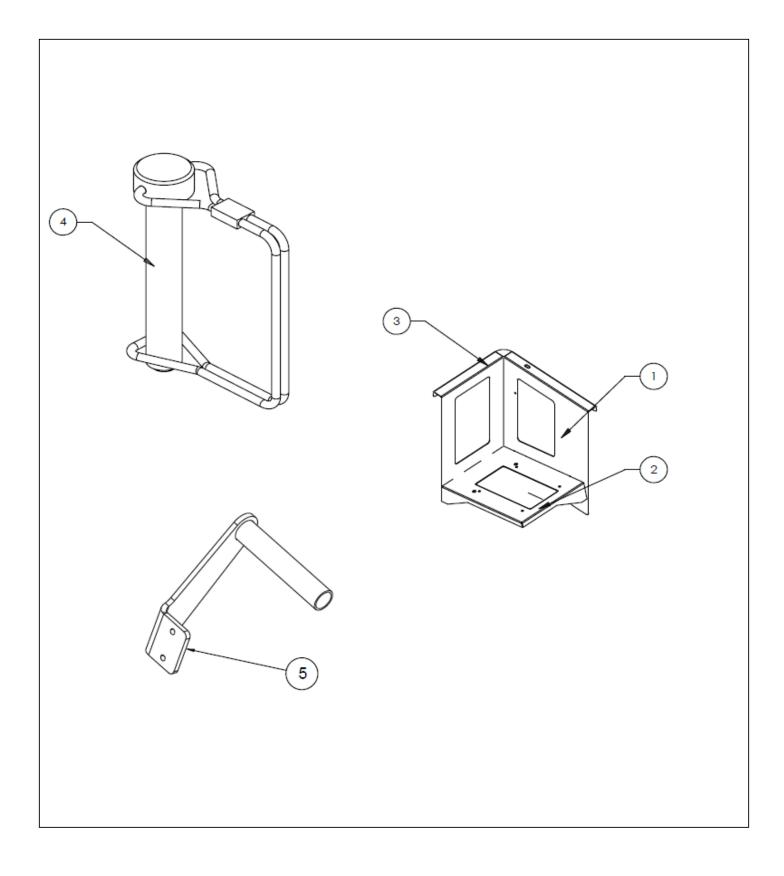


アイテム	部品番号	名前	数量	UOM
Not Shown	514483 001	UPPER CONTROL PANEL ASSEMBLY ANSI		EA
1	514484 000	A38 lower control panel	1	EA
2	510471 000	JOYSTICK (Before SN SL30 01 XXXX00061 / SL26 01 XXXX000017)	1	EA
2	13888	JOYSTICK, JR MERRITT WITH GUARD (HALL EFFECT) JULY 2017 AND AFTER	1	EA
3	512934 000	LED RED 12V	2	EA
4	512935 000	LED GREEN 12V	4	EA
5	510542 000	PUSHBUTTON BLACK C/W 1 N/O CON	2	EA
6	510524 000	PUSH/PULL SW ASSY W/NC CONTACT	1	EA
7	514132 000	BOOT	5	EA
8	510521 000	GROUND OP SWITCH (ENABLE)	5	EA
9	514491 000	Contact base 1 N/O 1 N/C	1	EA
10	514490 000	Switch head 3 way stayput/spring to centre	1	EA
11	514485 000	SL UCB enclosure	1	EA
12	056066 005	Nut NylockNut DIN985 M5 8.0 Zi	4	EA
13	056069 005	Washer SteelFlatWasher DIN125A	8	EA
14	058501 025	M5 x 25 S.H.C.S. GR 12.9	4	EA
15	058501 016	M5 x 16 S.H.C.S. GR 12.9	4	EA
16	502588 000	ALARM, ECCO BEEPING 6 28VDC	1	EA
17	510472 000	Matrix board (Before SN SL30 01 XXXX00061 / SL26 01 XXXX000017)	1	EA
17	3030169	Matrix board (After SN SL30 01 XXXX00062 / SL26 01 XXXX000018)	1	EA
18	510157 000	12 way panel plug	2	EA
19	510156 000	9WAY PANEL PLUG	1	EA

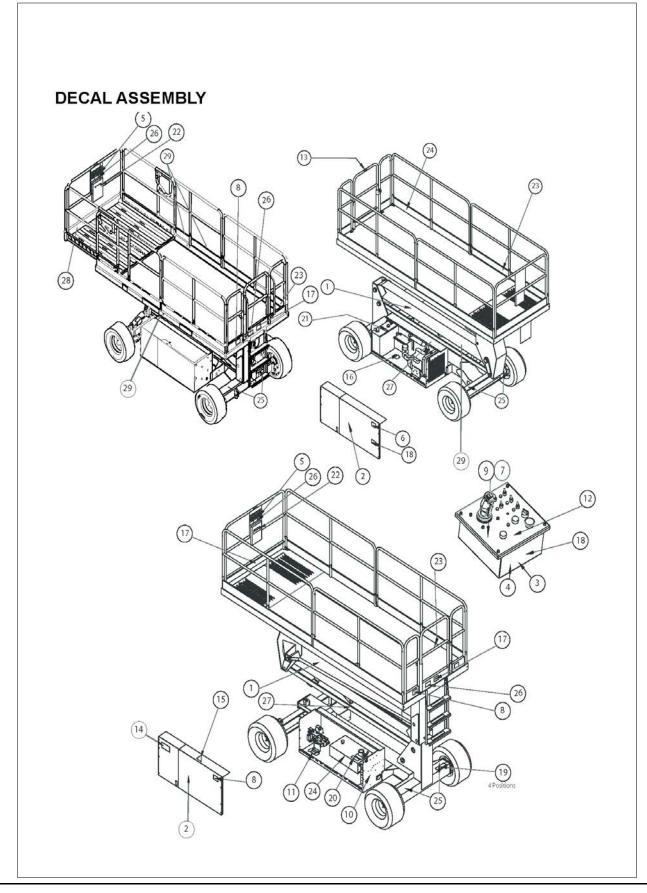
アイテム	部品番号	名前	数量	UOM
20	510154 000	6WAY PANEL PLUG	1	EA
21	058500 025	M4 x 25 SHCS 12.9	2	EA
22	056066 004	NUT NYLOCK DIN985 M4 8.0 ZP	2	EA
23	056069 004	Wshr, SteelFlatWshr M4 DIN125	2	EA
24	509755 000	Mate N lock socket contact	26	EA
25	514604 000	LOCKWASHER DEUTSCH 114021	1	EA
26	514605 000	LOCKNUT DEUTSCH 114020 90	1	EA
27	3049862	Receptacle, Flgd HD30, 14 Way	1	EA
28	100338 013	CRIMP PIN DEUTSCH	7	EA
29	514486 000	Overlay	1	EA
30	514945 000	Joystick harness	1	EA



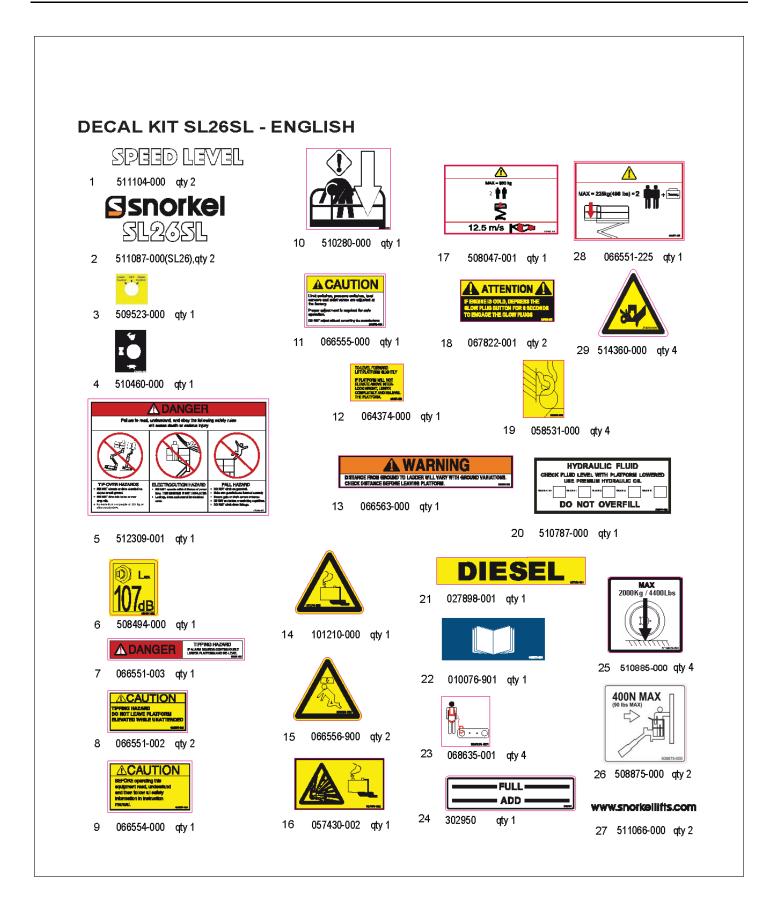
アイテム	部品番号	名前	数量	UOM
Not Shown	514521 000	UPPER CONTROL PANEL ASSEMBLY SL30 ADDITIONS		EA
1	514521 001	UCB mount side plate	1	EA
2	514521 002	UCB mount base	1	EA
3	514521 003	UCB mount fillet	1	EA
4	302544	Pin & Lock	1	EA
5	14002	Wrist Support	1	EA



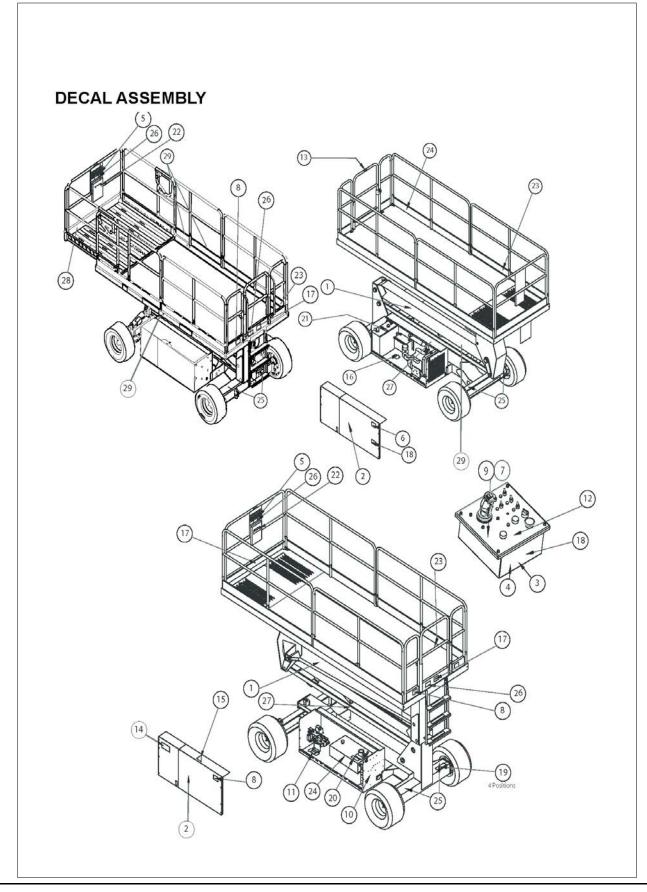
アイテム	部品番号	名前	数量	UOM
Not Shown	514938 000	UPPER CONTROL PANEL ASSEMBLY SL26 ADDITIONS		EA
1	514938 001	UCB mount side plate	1	EA
2	514521 002	UCB mount base	1	EA
3	514521 003	UCB mount fillet	1	EA
4	302544	Pin & Lock	1	EA
5	14002	Wrist Support	1	EA



アイテム	部品番号	名前	数量	UOM
Not Shown	508083 000	DECAL KIT SL26SL ENGLISH		EA
1	511104 000	Decal, speed level	2	EA
2	511087 000	Decal, Snorkel SL26	2	EA
3	509523 000	Decal, 3 position key (non ANSI)	1	EA
4	510460 000	Decal, hi low speed SL UCB	1	EA
5	512309 001	Warning	1	EA
6	508494 000	LWA Decal 107 dB	1	EA
7	066551 003	Tipping hazard	1	EA
8	066551 002	Tipping hazard	2	EA
9	066554 000	DECAL, BEFORE OPERATING	1	EA
10	510280 000	DECAL, IPAf EMERG LWR	1	EA
11	066555 000	DECAL, RELIEF VALVE	1	EA
12	064374 000	Decal, To level	1	EA
13	066563 000	Distance to ground	1	EA
14	101210 000	Risk of hydrogen gas and battery leakage	1	EA
15	066556 900	Risk from above	1	EA
16	057430 002	DECAL EXPLOSION HAZARD	1	EA
17	508047 001	Safe working load	2	EA
17	508047 000	Safe working load	2	EA
18	067822 001	Attention glow plugs	2	EA
19	058531 000	Lift/tie down point	4	EA
20	510787 000	Hydraulic fluid	1	EA
21	027898 001	Diesel fuel	1	EA
22	010076 901	DECAL SNORKEL LOGO, 183MM CAP	1	EA
23	068635 001	Harness anchor point	4	EA
24	302950	Decal, Hydraulic Oil Level (On Hydraulic Oil Tank)	1	EA
25	508875 000	Decal, side force 400 N	2	EA



アイテム	部品番号	名前	数量	UOM
26	510885 000	Decal, wheel loading	4	EA
27	511066 000	Decal, web address	2	EA
28	066551 225	Decal, safe working load extension (SL26RTE Only)	*	EA
29	514360 000	Decal, Hand Trap	4	EA



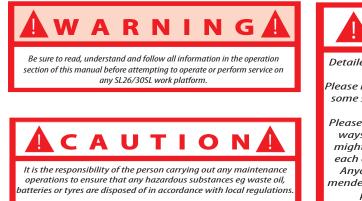
アイテム	部品番号	名前	数量	UOM
Not Shown	510876 000	DECAL KIT SL30SL ENGLISH		EA
1	511104 000	Decal, speed level	2	EA
2	511088 000	Decal, Snorkel SL30	2	EA
3	509523 000	Decal, 3 position key (non ANSI)	1	EA
4	510460 000	Decal, hi low speed SL UCB	1	EA
5	066550 005	Warning	1	EA
6	508494 000	LWA Decal 107 dB	1	EA
7	066551 003	Tipping hazard	1	EA
8	066551 002	Tipping hazard	2	EA
9	066554 000	DECAL, BEFORE OPERATING	1	EA
10	510280 000	DECAL, IPAf EMERG LWR	1	EA
11	066555 000	DECAL, RELIEF VALVE	1	EA
12	064374 000	Decal, To level	1	EA
13	066563 000	Distance to ground	1	EA
14	101210 000	Risk of hydrogen gas and battery leakage	1	EA
15	066556 900	Risk from above	1	EA
16	057430 002	DECAL EXPLOSION HAZARD	1	EA
17	505573 001	Safe working load	1	EA
18	067822 001	Attention glow plugs	2	EA
19	058531 000	Lift/tie down point	4	EA
20	510787 000	Hydraulic fluid	1	EA
21	027898 001	Diesel fuel	1	EA
22	010076 901	DECAL SNORKEL LOGO, 183MM CAP	1	EA
23	068635 001	Harness anchor point	4	EA
24	302950	Decal, Hydraulic Oil Level (On Hydraulic Oil Tank)	1	EA
25	508875 000	Decal, side force 400 N	2	EA
26	510885 000	Decal, wheel loading	4	EA

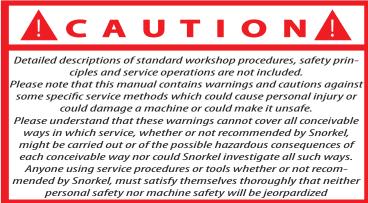
アイテム	部品番号	名前	数量	UOM
27	511066 000	Decal, web address	2	EA
29	514360 000	Decal, Hand Trap	4	EA

CONTENTS	
INTRODUCTION	3-2
SPECIAL TOOLS	3-2
PREVENTATIVE MAINTENANCE	3-2
PREVENTATIVE MAINTENANCE TABLE	3-3
CHOCKING THE ELECTRICAL ASSEMBLY INSTALLATION REMOVAL	3-4 3-4 3-4
BATTERY MAINTENANCE	3-4
BATTERY INSPECTION AND CLEANING	3-4
BATTERY CHARGING	3-5
BATTERY SPECIFIC GRAVITY	3-5
LUBRICATION GREASE FITTINGS LINKAGE GEARS STEERING LINKAGE	3-5 3-5 3-5 3-5
HYDRAULICS HYDRAULIC PUMP HYDRAULIC OIL TANK AND FILTER OIL FILTER AND REPLACEMENT SETTING HYDRAULIC PRESSURES MAIN RELIEF VALVE RV3 LIFT RELIEF VALVE RV2 FORE/AFT TILT STEERING RELIEF VALVE RV1 COUNTERBALANCE VALVES	3-6 3-6 3-6 3-6 3-7 3-7 3-7 3-7
HYDRAULIC MANIFOLD REMOVAL DISASSEMBLY CLEANING AND INSPECTION ASSEMBLY INSTALLATION	3-9 3-9 3-9 3-9 3-9 3-9
REPLACING HYDRAULIC PUMP REMOVAL INSTALLATION	3-10 3-10 3-10
HYDRAULIC BRAKES, DRIVE MOTORS & HUBS REAR AXLE REMOVAL REAR AXLE INSTALLATION FRONT AXLE REMOVAL FRONT AXLE INSTALLATION AXLE CYLINDER REMOVAL INSTALLATION	3-10 3-10 3-11 3-11 3-12 3-12 3-12 3-12

STEERING CYLINDER REMOVAL DISASSEMBLY CLEANING AND INSPECTION ASSEMBLY AND INSTALLATION ADJUSTMENT	3-12 3-12 3-13 3-13 3-13 3-14
LIFT CYLINDER INSTALLATION REMOVAL DISASSEMBLY CLEANING AND INSPECTION REASSEMBLY INSTALLATION	3-14 3-14 3-15 3-15 3-15 3-15 3-15
MANUAL LEVELLING	3-16
PLATFORM CONTROLS AND INDICATORS	3-16
CALIBRATE LEVEL	3-17
CALIBRATE LEVEL CALIBRATE HEIGHT	3-17 3-19
	-
CALIBRATE HEIGHT	3-19

INTRODUCTION





This section contains instructions for the maintenance of the SL26/30SL work platform. Procedures for operation inspection, adjustment, scheduled maintenance and repair/removal are included.

Referring to section 2 will aid in understanding the operation and function of the various components and systems of the SL26/30SL work platform and help in diagnosing and repair of the machine.

Refer to page 3-2 for recommended maintenance intervals.

NOTE: Unless otherwise specified, torque all fittings according to the "Torque Specifications for Fasteners" and the "Torque Specifications for Hydraulic Components" on page 3-22 and page 3-23.

SPECIAL TOOLS

The following is a list of special tools which may be required to perform certain maintenance procedures on the work platform.

- 0-600 PSI (0-45 bar) hydraulic pressure gauge 0-3500 PSI (0-250) hydraulic pressure gauge •
- .
- Inclinometer
- Quick disconnect gauge port

PREVENTATIVE MAINTENANCE

The complete inspection consists of periodic visual and operational checks together with all necessary minor adjustments to assure proper performance. Daily inspection will prevent abnormal wear and prolong the life of all systems. The inspection and maintenance schedule is to be performed at regular intervals.

Inspection and maintenance shall **ONLY** be performed by personnel who are trained and familiar with mechanical and electrical procedures.



The preventative maintenance table has been designed to be used primarily for machine service and maintenance repair.

Please photocopy the preventative maintenance checklist on page 3-3 and use this table as a checklist when inspecting the machine for service.

PREVENTATIVE MAINTENANCE REPORT

PREVENTATIVE MAINTENANCE TABLE

INTERVAL

Daily = each shift or everyday 50 hrs/30 d = every 50 hours or 30 days Date: 250 hrs/6 m = every 250 hours or 6 months Owner: 1000 hrs/2 y = every 1000 hours or 2 years Model #:

Y = Yes/Acceptable

N = No/Not Acceptable

R = Repaired/Acceptable

Serial #: Serviced By: Service Interval:

DO NOT fit replacement parts other than genuine components without express written approval from the manufacturer.

COMPONENT	INSPECTION OR SERVICES	INTERVAL	Υ	Ν	R	COMPONENT	INSPECTION OR SERVICES	INTERVAL	Υ	Ν	F
	Check electrolyte level	Daily				Drive Motors	Check for operation and leaks	Daily			Γ
	Check specific gravity	6m					Check hardware & fittings for proper	6m			T
Battery	Clean exterior	6m				Steering	torque				
System	Check battery cable condition	Daily				system	Grease pivot pins	30d			Γ
	Clean terminals	6m		ĺ			Oil king pins	30d			
	Check level and condition	Daily					Check steering cylinder for leaks	30d			
Engine Oil	Check for leaks	Daily					Inspect for structural cracks	Daily			
	Change oil filter	30d					Check pivot points for wear	30d			
	Check fuel level	Daily					Check mounting pin pivot bolts for	30d			Ι
Engine	Check for leaks	Daily				Elevating	proper torque				Ļ
Fuel system	Replace fuel filter	6m				Assembly	Check linkage gear for wear	6m			Ļ
	Check air cleaner	Daily					Check elevating arms for bending	6m			
Engine	Check coolant level	Daily					Grease linkage pins	30d			Ļ
Coolant	(with engine cold)						Grease linkage gear	30d			ļ
	Replace coolant	3m	İ				Check hoses for pinch or rubbing	Daily			L
	Check oil level	Daily	İ			Chassis	points				ļ
Hydraulic Oil	Change filter	6m	İ				Check component mounting for	6m			L
	Drain and replace oil 2y		proper torque				ļ				
	Check for leaks	Daily					Check welds for cracks	Daily			ļ
Hydraulic	Check hose connections	30d					Check the cylinder rod for wear	30d			ļ
system	Check hoses for exterior wear	30d				Lift Culinder	Check mounting pin pivot bolts for	30d			l
Emergency	Operate the emergency lowering valve and		i –			Lift Cylinder	proper torque				Ŧ
hydraulic	check for serviceability	Daily					Check seals for leaks	30d			ł
System							Inspect pivot points for wear	30d			∔
Controller	Check switch operation	Daily		ĺ			Check fittings for proper torque	30d			Ŧ
Control Cable	Check the exterior of the cable for pinching,	Daily		ĺ			Check the cylinder rod for wear	30d			Ť
	binding or wear					Fare/Aft autic day 8	Check mounting pin pivot bolts for	30d			
	Check fasteners for proper torque	Daily				Fore/Aft cylinder & side/side cylinder	proper torque				ļ
Platform deck	Check welds for cracks	Daily				side/side cylinder	Check seals for leaks	30d			Ŧ
and rails	Check condition of deck	Daily					Inspect pivot points for wear	30d			ļ
	Check for damage	Daily					Check fittings for proper torque	30d			Ŧ
Tyres	Check lug nuts (torque to 122 Nm/90 ft. lbs.)	30d					Check the cylinder rod for wear	30d			ļ
	Wipe clean	30d				Avia	Check mounting pin pivot bolts for	30d			I
Hydraulic	Check for leaks at mating surfaces	30d				Axle cylinder	proper torque				ł
pump	Check for hose fitting leaks	Daily				cynnder	Check seals for leaks	30d			ļ
	Check mounting bolts for proper torque	30d		İ	\square		Inspect pivot points for wear	30d			ļ
	Check for and repair collision damage	Daily		İ	\square		Check fittings for proper torque	30d	\square		ļ
Entire	Check fasteners for proper torque	3m		İ	\square	Labels	Check for peeling, missing or unread-	Daily			
unit	Check for corrosion-remove and paint	6m			\square		able labels & replace				╀
	Lubricate	30d				Wheel bearings	Replace wheel bearings (replace wheel bearings and seals at 2000	2у			

Table 3-1: Preventative maintenance checklist

A thorough investigation should be carried out every 6 months. NOTE: Frequency and extent of periodic examinations may depend on national regulations.

Fitment of any component other than approved items designed for use with this machine can result in serious danger to operators, property and bystanders.

CHOCKING THE ELEVATING ASSEMBLY

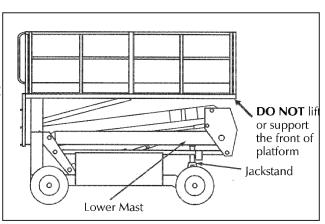


AWARNING Before performing maintenance on a work platform while it is elevated, ensure that the elevating assembly is properly supported.

DO NOT stand under the elevated assembly area while installing or removing the jackstand.

INSTALLATION

- 1. Park the work platform on a firm, level ground and leave the engine running.
- 2. Elevate the platform approximately 300 mm (12 inches).
- Place a jackstand with a minimum rating of 2000 kg (400 lbs.) between the lower mast and chassis, just behind the front axle.
- Gradually lower the platform until the jackstand is secured tightly between the lower mast and chassis.



REMOVAL

Figure 3-1: Blocking the elevating assembly

Elevate the platform until the jackstand can be removed. Remove the jackstand and completely lower the platform.

BATTERY MAINTENANCE



BATTERY INSPECTION AND CLEANING

Check the battery fluid level daily, especially if the work platform is being used in a warm, dry climate. If required, add distilled water only. Use of tap water will shorten battery life due to its high mineral content. The battery and cables should be inspected regularly for signs of cracks in the case, electrolyte leakage and corrosion of the terminals. Inspect cables for worn spots or breaks in the insulation and for broken cable terminals. Clean the battery when it shows signs of corrosion at the terminals or when the electrolyte has overflowed during charging. Use a suitable solution to clean the battery, taking care not to get the solution inside the cells. Rinse thoroughly with clean water. Clean battery and cable contact surfaces to a bright metal finish whenever a cable is removed.

BATTERY CHARGING

The battery is charged by the alternator whenever the engine is running and should not require any other charging. If the machine has not been in service or the battery has been discharged, perform the following.

- 1. Charge the battery, only in a well ventilated area.
- 2. Do not charge the battery when the work platform is in an area containing sparks or flames.
- 3. Always follow the manufacturer's instructions.
- 4. Never disconnect the cables from the batteries when the charger is operating.

Check the battery fluid level. If the electrolyte level is lower than 10 mm (0.375 inches) above the plates, add clean distilled water only.

BATTERY SPECIFIC GRAVITY

After charging, if necessary, the specific gravity of all cells should be checked with a hydrometer. The temperature corrected specific gravity should be 1.260. If the battery contains any cells with corrected reading below 1.230, the battery should be replaced.

Do not check the specific gravity in a cell to which water has just been added. If there is not enough electrolyte in a fully charged cell to obtain a sample for the hydrometer, add water and continue charging for 1 to 2 hours to adequately mix the water and electrolyte.

LUBRICATION

Refer to Table 3-1 for lubrication intervals and Figure 3-2 for location of items that require lubrication service. Refer to the appropriate sections for lubrication information on the hydraulic tank and filter.

GREASE FITTINGS

Wipe each grease fitting before and after greasing. Using a lithium based multipurpose grease in a grease gun, pump the grease into the fitting until grease begins to appear at the edges of the pivot. Wipe off any excess grease.

LINKAGE GEARS

- 1. Raise platform fully.
- Using another work platform or ladder, get up high enough to comfortably reach the gears. Use a long handled brush to apply gear linkage lubricant (part number): 509594-000. 2.
- 3.
- Lower the platform after greasing.



STEERING LINKAGE

Apply one or two drops of SAE 10 W or spray lube oil to each pivot and grease upper and lower king pin bearing.

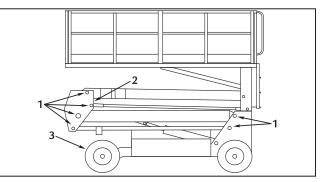


Figure 3-2: Lubrication points

1	Grease fittings	3	Steering linkage
2	Linkage gears		

HYDRAULICS

HYDRAULIC PUMP

Remove the cap screws that mount the pump to the engine. Remove the pump from the engine and apply high pressure molybdenum grease to the splines. Re-install the pump and secure the cap screws. Tighten using a forgue of 30 Nm.

HYDRAULIC OIL TANK & FILTER

Fluid Level:

- With the platform fully lowered, the oil should be between the levels 'low and high'. If the oil is not visible, fill the tank until the oil can be seen.
- •
- Do not fill the oil tank above the high level mark or when the platform is elevated.

OIL AND FILTER REPLACEMENT

Operate the work platform for 5 minutes to warm up the oil. To change filter only, refer to step 5.



- Use a suitable container to drain the oil into. The hydraulic tank has an oil capacity of 75 litres.
- 3. Remove the drain plug and allow all the oil to drain into the container. Make sure the oil is disposed off properly.
- Re-install the drain plug.
 Unscrew the filter element from the filter body.
- 6. Lubricate the rubber seal and fill the tank with clean hydraulic oil.
- 7. Screw the replacement filter element unto the filter body.
- 8. Fill the hydraulic oil tank to the level required with the recommended fluid. Check decals for details on oil to use. The standard oil to use is ISO #46. The oil is being strained as it enters the tank leading to an increase in the time used to fill the tank.

M 1) A 2

Figure 3-3: Hydraulic oil tank

1 Filler	breather 2	2	Drain Plug (under tank)
----------	------------	---	----------------------------

SETTING HYDRAULIC PRESSURES

NOTE: Check the hydraulic pressures whenever the pump, manifold or relief valve(s) have been serviced or replaced.



MAIN RELIEF VALVE RV3

Refer to Figure 3-4 whiles reading the following procedures.

- 1. Operate the hydraulic system 10 to 15 minutes to warm the oil.

- Remove the cap or loosen the locknut on the main relief valve.
 Install a 0-250 bar (0-3500 psi) pressure gauge to the gauge port.
 Select "Drive mode" and remove the wires from the forward/reverse drive coils.
- 5. While engaging the safety interlock trigger, move the joystick fully forward. Adjust the main relief valve until the pressure gauge reads 210 bar (3000 psi).
- 6. Release the joystick.
- 7. Replace the cap or tighten the locknut on the main relief valve and torque to 8 Nm (6 ft. lbs.)

LIFT RELIEF VALVE RV2

Refer to Figure 3-4 whiles reading the following procedures.

- 1. Operate the hydraulic system for 5 minutes.
- 2. Remove the cap or loosen the locknut on the lift relief valve.
- Install a 0-250 bar (0-3500 psi) pressure gauge.
 With the engine running, select "lift mode". Lift the platform fully by moving the joystick fully forward.
- 5. While holding the joystick forward, set the pressure to 180 bar (2600 psi) maximum by slowly turning the adjustment screw. A clockwise turn increases pressure.
- 6. Tighten the locknut to 8 Nm (6 ft. lbs.).
- 7. Remove the gauge.

FORE/AFT TILT AND STEERING RELIEF VALVE RV1

Refer to Figure 3-4 whiles reading the following procedures.

- 1. Operate the hydraulic system for 5 minutes.

- Coperate the right addie system for 5 minutes.
 Remove the cap or loosen the locknut on the main relief valve.
 Install a 0-100 bar (0-1450 psi) pressure gauge.
 With the engine running, steer the wheels fully left or right using the steering buttons.
 While holding the steering button, set the pressure to 100 bar (1450 psi) maximum by slowly turning the adjusting screw. A clockwise turn increases pressure.
 Tighten locknut to 8 Nm (6 ft. lbs.).
- 7. Remove the gauge.

COUNTERBALANCE VALVES

The counterbalance valves are not adjustable. If a suspected problem exists, a counterbalance valve can be changed for one of the same specification.

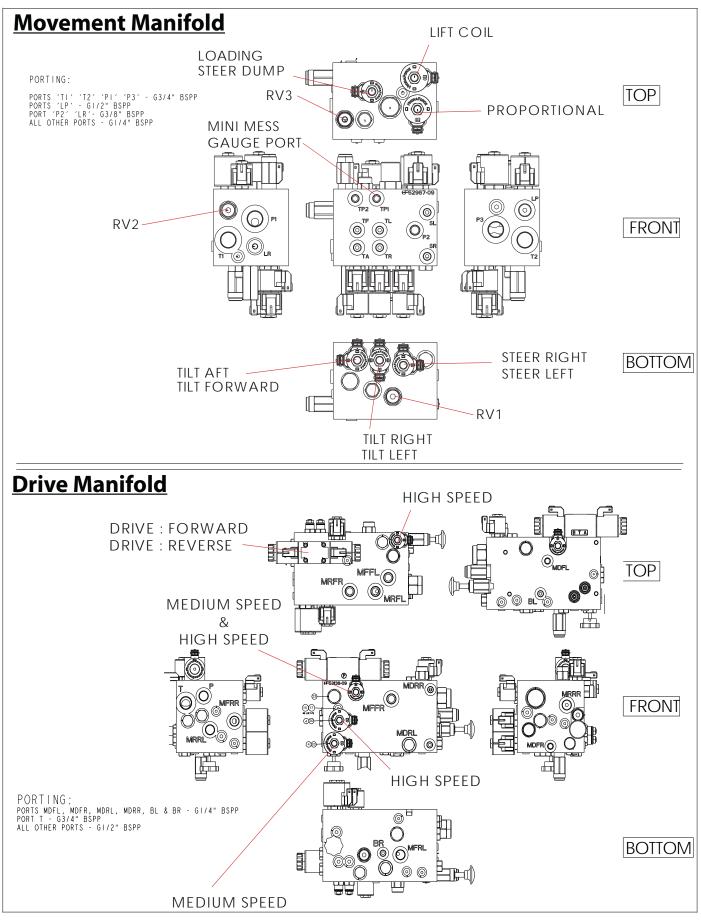


Figure 3-4: Hydraulic manifold (coil and port)

HYDRAULIC MANIFOLD

Though it is not always necessary to remove the manifold to perform maintenance procedures, a decision should be made prior to beginning as to whether or not the manifold should be removed before maintenance procedures begin. This work should only be carried out by competent and approved technicians in a clean environment.

REMOVAL

- 1. Disconnect the battery earth cable.
- 2. Tag and disconnect the solenoid valve leads.
- 3. Tag, disconnect and plug the hydraulic hoses.
- 4. Remove the bolts that hold the manifold to the mounting bracket.
- 5. Remove manifold block.

DISASSEMBLY

NOTE: Mark all components as they are removed to avoid confusion of their location during assembly. Refer to the valve block drawing and schematic regularly to aid in disassembly and assembly.

- 1. Remove coils from solenoid valves.
- 2. Remove spool valve covers and spool valves.
- 3. Remove solenoid valves, main relief valve, counterbalance valves and emergency lowering valves. Remove fittings, plugs, springs, balls and orifices.

CLEANING AND INSPECTION

- 1. Wash the manifold in cleaning solvent to remove built up contaminants and then blow out all passages with clean compressed air.
- 2. Inspect the manifold for cracks, thread damage and scouring where the O-rings seal acts against internal and external surfaces.
- 3. Wash and dry each component and check for thread damage, torn or cracked O-rings and proper operation.
- 4. Replace parts and O-rings found unserviceable.

ASSEMBLY

NOTE: Lubricate all O-rings before installation to prevent damage to O-rings. Seat all balls in manifold block by lightly tapping on the ball with a brass drift.

- 1. Install fittings, plugs, balls and orifices. Use one drop of loctite #242 on each screw-in orifice.
- 2. Install emergency lowering valves, counterbalance valves, main relief valve, break pressure reducing valve, solenoid valves and spool valves.
- 3. Install coils on solenoid valves.

INSTALLATION

- 1. Attach manifold assembly to mounting plates with bolts.
- 2. Connect solenoid leads (as previously tagged).
- 3. Connect hydraulic hoses. Be certain to tighten hoses to manifold.
- 4. Operate each hydraulic function and check for proper operation and leaks.
- Adjust all hydraulic pressures according to instructions.

REPLACING HYDRAULIC PUMP

NOTE: If the hydraulic tank has not been drained, suitable means for plugging the hoses should be provided to prevent excessive fluid loss.

REMOVAL

- 1. Mark, disconnect and plug the hose assemblies.
- 2. Loosen the cap screws and remove the pump assemblies from the engine.

INSTALLATION

- 1. Lubricate the pump shaft with extreme high pressure molybdenum grease and attach the pump to the engine with cap screws.
- Using a crisscross pattern, torque each cap screw a little at a time until all four cap screws are torqued to 30 Nm (22 ft. lbs.). 3. Unplug and re-connect the hydraulic hoses.
- 4. Check the oil level in the hydraulic tank before operating the work platform.

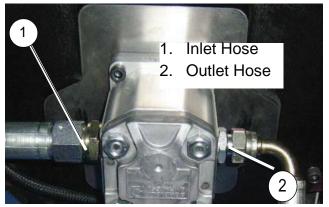


Figure 3-5: Typical hydraulic pump

HYDRAULIC BRAKES, DRIVE MOTORS & HUBS

REAR AXLE REMOVAL

- 1. Park the work platform on firm, level ground and block the wheels to prevent the work platform from moving.
- 2. Loosen the wheel lug bolts on the motor to be removed.
- 3. Raise the rear of the work platform using a 2 tonne jack.
- 4. Position two 1 tonne jack stands under the rear axle to prevent the work platform from falling if the jack fails.
- 5. Remove the wheel lug bolts and wheel.
- 6. Remove the cotter pin, nut, hub and shaft key.



- Tag and disconnect the hose assemblies. 7.
- Remove the cap screws, washers, brake and drive motor assembly from the rear axle. 8.
- Remove the socket screws from the drive motor and then separate the brake from the drive motor.

REAR AXLE INSTALLATION

- 1. Insert the drive motor with O-ring (lubricate O-ring before assembly) installed unto the brake and secure the socket screws using loctite #242 retaining compound on the screw threads.
- 2. Position the drive motor and brake on the rear axle and secure with washers and H.H. setscrews.
- Re-install the hose assemblies.
- 4. Re-install the shaft key, hub and nut. Torque each wheel hub nut to 475 Nm (350 ft. lbs.).
- 5. Align the slot in the nut with the hole in the shaft and insert the cotter pin. Do not back off the nut to align.
- 6. Re-install the wheel and lug on the hub. Torque the bolts to 123 Nm (90 ft. lbs.).
- 7. Lower the jack stands and remove.
- 8. Operate the drive system to check for leaks and proper function.

FRONT AXLE REMOVAL

- 1. Park the work platform on firm, level ground and chock the wheels to prevent the work platform from moving.
- 2. Loosen the wheel lug bolts on the motor to be removed.
- 3. Raise the front of the chassis using a 2 tonne
- Position two 1 tonne jack stands under the front axle to prevent the work platform from falling if the jack fails.
 Remove the wheel lug bolts and wheel.
- 6. Remove the cotter pin, nut, hub and shaft key.
- 7. Tag and disconnect the hose assemblies.
- 8. Remove the adaptor hub from the hydraulic motor.
- 9. Remove the cap screws and nuts followed by the drive motor from the front axle steering mount.

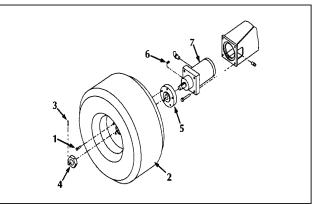
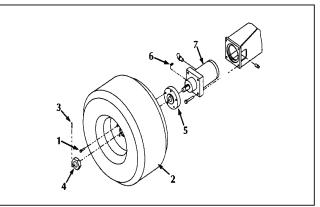


Figure 3-6: Rear axle assembly

1	Lug bolt	2	Tyre/Wheel Assem- bly
3	Cotter pin	4	Slotted nut
5	Adaptor hub	6	Shaft key
7	Drive motor		



1	Lug bolt	2	Tyre/Wheel Assem- bly
3	Cotter pin	4	Slotted nut
5	Adaptor hub	6	Shaft key
7	Drive motor	8	Steering mount



FRONT AXLE INSTALLATION

- 1. Position the drive motor into the steering mount and secure the cap screws and nuts.
- Re-install the adaptor on the hydraulic motor.
- 3. Re-install the hose assemblies.
- 4. Re-install the shaft key, hub and nut. Torque each wheel hub nut to 475 Nm (350 ft. lbs.). Align the slot in the nut with the hole in the shaft and insert the cotter pin. Do not back off the nut to align.
- 5. Re-install the wheel and lug bolts onto the hub. Torque the lug bolts to 123 Nm (90 ft. lbs.).
- 6. Lower the jack stands and remove.
- Operate the drive system to check for leaks and proper function.

AXLE CYLINDER

REMOVAL

Ensure the platform is fully lowered and the machine is on a firm level ground.

- 1. Remove and cap the hoses.
- Remove the pivot pins.
- 3. Remove the cylinder.

INSTALLATION

- 1. Attach both ends of the cylinder to mounts with pivot pins and retaining bolts.
- 2. Torque the retaining bolts to 203 Nm (150 ft. lbs.).
- 3. Connect all hoses.
- 4. Jack up the front axle and support.
- 5. With the engine running, oscillate the axle from side to side slowly to bleed air from the cylinder and hoses.
- 6. Lower the axle to the ground.
- 7. Operate the work platform over rough terrain and check for proper function and leaks. This is done by elevating the platform above 2 m (levelling may be required). Drive the platform so that one wheel drives up an incline of 150 mm (6 inches). The platform should continue to drive until the wheel diagonally opposite lifts of the ground and the tilt sensor is activated. If this cannot be achieved, either the float cylinder contains air or the float cylinder solenoid valve is faulty.

STEERING CYLINDER

REMOVAL

- 1. Mark and disconnect the hose assemblies from the fittings and immediately cap the openings to prevent foreign material from entering.
- Remove the setscrews securing the rod ends to the steering linkage.
 Remove the setscrews and locknuts that fasten the cylinder assembly to the chassis.
- 4. Remove the cylinder from the chassis.

DISASSEMBLY

- 1. Remove the head caps from the barrel tube.
- 2. Mark which end of the barrel tube the head cap was removed from.
- Withdraw the entire shaft assembly from either end of the barrel tube.
 Remove the rod wipers, rod seals and static O-rings from the head caps.
- 5. Discard all the seals.
- 6. Unscrew the #1 shaft from the #2 shaft and remove the piston.
- 7. Remove the piston seal and static O-ring from the piston and discard.

CLEANING AND INSPECTION

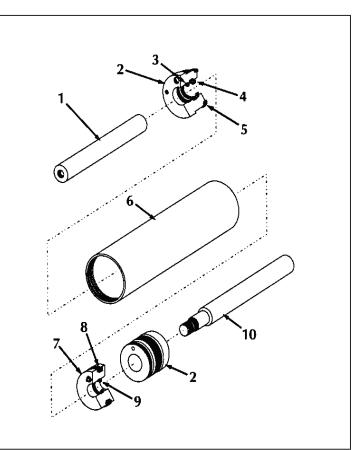
- 1. Wash all the metal parts in cleaning solvent and blow dry with filtered compressed air.
- 2. Inspect all the threaded components for stripped or damaged threads.
- 3. Check the inside surface of the barrel tube for scouring or excessive wear.
- 4. Check the piston and head caps for scouring or excessive wear.
- 5. Inspect the surface of both shafts for scouring or excessive wear.

ASSEMBLY AND INSTALLATION

- 1. Install a new piston seal and static Orings.
- Install the piston on the #1 shaft.
- 3. Thread the #2 shaft unto the #1 shaft and tighten securely.
- 4. Lubricate the piston seal with clean hydraulic fluid and install the shaft assembly in the barrel tube.5. Lubricate and install new rod seals and
- static O-rings on the head caps.6. Lubricate and install new rod wipers on
- the head caps.
- 7. Install head caps on the barrel tube and tighten until the mounting holes are in line.

NOTE: Head caps must be re-installed on Figure 3-8: Steering Cylinder assembly the same end from which they were removed.

- 8. Install the fittings on the ends of the cylinder.
- 9. Position the cylinder assembly on the chassis and install the cap screws and locknuts but do not tighten.
- 10. Tighten the nut and bolt in front of the cylinder that goes through the frame and then tighten the cylinder mounting cap screws.
- 11. Install the cylinder rod ends.
- 12. Set rod ends to align front wheels.
- Connect the hose assemblies to the fittings.
 Operate the steering circuit several times throughout its entire range of travel to expel trapped air and check for leaks.
- 15. Check and adjust front wheel tracking if required.



1	#2 Shaft	2	Head cap (2)	
3	Rod wiper (2)	4	Rod seal (2)	
5	Static O-ring (2)	6	Cylinder barrel	
7	Piston	8	Piston seal	
9	Piston static O-ring			

ADJUSTMENT

- 1. Disconnect the cylinder rod ends (if connected).
- 2. Operate steering so that both ends of the cylinder rod are equal in length therefore within 0.8 mm (1/32 inch).
- 3. Position both tyres so that they are parallel with the frame, with each other and with the rear wheels.
- 4. Adjust rod ends until they align with the holes on the steering linkage bars.
- 5. Re-install the bolts through the steering linkage bars and rod ends. Tighten the jam nuts on the rod ends and all hardware.
- 6. When properly adjusted, the wheels must turn the same amount in each direction. The steering stops must make contact with each side at the same time.

LIFT CYLINDER

NOTE: Do not support or raise the front of the platform during any maintenance operation as this might result in damage to the tension members.

REMOVAL

- 1. Raise and chock the front of the elevating assembly approximately 300 mm (12 inches) above the chassis support with a jack stand; a minimum rating of 2000 kg (4000 lbs.).
- 2. Open the emergency lowering valve to ensure all the pressure is released from the lift cylinder.
- 3. Remove and cap both hoses and fittings.
- 4. Support the lift cylinder to prevent it from falling.
- 5. Remove the setscrew from the end of the cylinder rod.
- 6. Remove the retaining ring from the upper cylinder pin. Remove the upper cylinder pin by tapping out using a soft punch.
- 7. Remove the retaining bolt from the lower cylinder pin and remove the pin using a soft punch.
- 8. Remove the cylinder by sliding it out towards the front of the machine.

1	Cylinder barrel	2	Velocity fuse
3	Fitting, Adapter	4	Hose assembly
5	Breather	6	Piston nut
7	Piston seal	8	Piston
9	Piston static O-ring	10	Static O-rings
11	Head cap	12	Cylinder rod
13	Set screw	14	Rod wiper
15	Rod seal	16	Nut

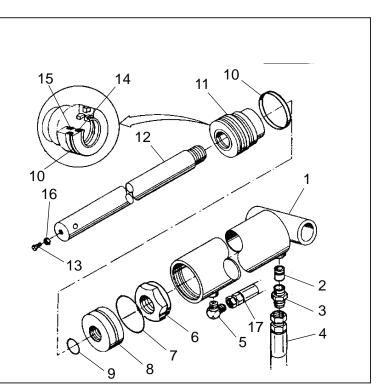


Figure 3-9: Steering Cylinder assembly

DISASSEMBLY

- 1. Unscrew the head cap from the cylinder barrel.
- 2. Remove the piston and rod assembly from the cylinder barrel.
- Unscrew the piston nut and remove piston and head cap from the piston rod.
 Remove the piston static O-ring from the cylinder rod and discard.
- Remove the piston seal from the piston and discard.
 Remove the static O-rings, rod seal and rod wiper.
- 7. Remove the rod end breather.
- 8. Do not remove the velocity fuse unless replacement is necessary.

CLEANING AND INSPECTION

- 1. Clean all the metal parts in cleaning solvent and blow dry with filtered compressed air.
- 2. Check the working surfaces of the piston head cap, cylinder barrel and rod for excessive wear or scouring.
- 3. Replace parts found to be unserviceable.
- 4. Replace all seals, O-rings and wipers.

RE-ASSEMBLY

- 1. Lubricate the static O-ring, rod seal and rod wiper and then install it on the head cap.
- 2. Install the piston seal on the piston.
- 3. Install the head cap, piston static seal, piston and piston nut on the cylinder rod. Torque nut to 96 Nm (70 ft. lbs.).

NOTE: The head cap should be installed from the piston end of the cylinder rod. Sliding the head cap over the pivot pin hole may damage the rod seal and rod wiper.

- 4. Lubricate the piston seal and install the piston and rod assembly into the cylinder barrel.
- 5. Screw the head cap into the cylinder barrel until it is tight. Turn a further 1/4 to ensure it is well tight.

INSTALLATION

NOTE: Before installing the cylinder, check the pins and bearings for excessive wear. Replace if necessary.

- Place the cylinder in position taking care to support the cylinder to prevent falling.
- 2. Install the lower pin and retaining bolt.
- Install the upper pin and retaining ring.
- 4. Install both hoses.
- 5. Raise the machine and check for leaks.

NOTE: The cylinder may need to be extended and retracted so as to align the rod end pivot hole.

SERVICE AND REPAIR

MANUAL LEVELLING

- There are occasions when the operation of manual levelling is required.
- Manual levelling cannot be carried out above the elevation height (approximately 2 m).
 - Select platform controls from the ground control box. Release the ground "Emergency stop button" and enter the platform (refer to Figure 2-4). 1.
 - 2. Release the platform "Emergency stop button" (#1) and ensure the machine is switched OFF with the platform "OFF/ON Engine start switch" (#3).
 - 3. To access the manual levelling mode, press and hold the "Lift/Lower switch" (#12) and the "Auto level switch" (#14) and switch the machine on using the "OFF/ON Engine start switch"
 - (#3). Release the toggle switches.
 4. When the manual levelling mode is active, the "Lift/Lower enabled LED" (#13) and the "Medium speed drive enabled LED" (#9) will flash.
 - 5. If the platform is out of level from right to left, the "High speed drive enabled LED" (#11) will flash. If the platform is out of level from front to back, the "Platform tilt-steady red axle tilt" (#15) will flash. Start the engine.

 - For left to right adjustments, press and hold the "Auto level switch" (#14) then pull in the trigger on the joystick and use the steer switch on the joystick to adjust the platform level to left or right. The "High speed drive enabled LED" (#11) will extinguish when the platform is level in that direction. in that direction.
 - 8. For Fore to Aft adjustment, press and hold the "Auto level switch" (#14) then pull in the trigger on the joystick and push the joystick forward or backwards to adjust the platform level Fore or Aft. The "Platform tilt-steady red axle tilt" (#15) will extinguish when the platform is level in that direction.
 - 9. To exit manual levelling mode, switch the machine off.

PLATFORM CONTROLS AND INDICATORS

- 1. Emergency stop button
- 2. Horn button
- 3. OFF/ON Engine start switch
- 4. Glow plug button
- 5. Engine warning LED
- 6. Low speed drive switch
- 7. Low speed drive enabled LED
- Medium speed drive switch 8.
- Medium speed drive enabled LED 9.
- 10. High speed drive switch 11. High speed drive enabled LED
- 12. Lift/Lower Switch
- 13. Lift/Lower enabled LED
- 14. Auto level switch
- 15. Platform tilt-steady red axle tilt - flashing red
- 16. Overload LED
- 17. Joystick

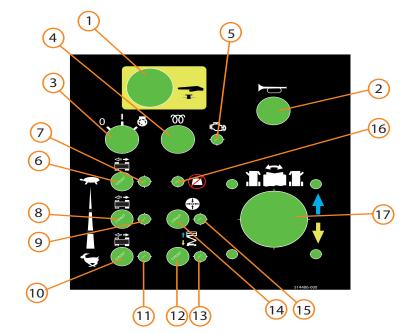
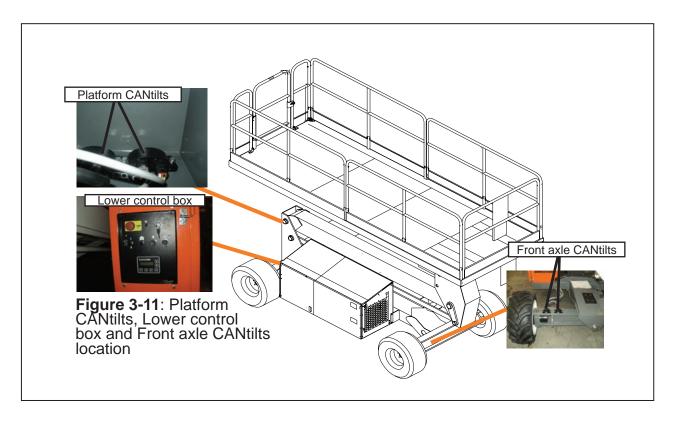


Figure 3-10: Platform Controls and indicator locations

CALIBRATE LEVEL

- This machine is equipped with level sensors for the chassis, the front axle and the platform as follows:
 - 1. Chassis level sensor: This is incorporated in the ECU (GP400 control module) in the lower control box.
 - Front axle level sensor: This is a pair of CANtilt level sensors mounted on the front axle. There are two available for self checking incase one fails. Elevation above elevated height is not allowed if the front axle is out of level with the chassis by more than 1 degree.
 Platform level sensor: This is a pair of CANtilt level sensors mounted on the rear of the 1st
 - post weldment. There are two available for self checking incase one fails.





SERVICE AND REPAIR

LEVELLING PROCEDURE

- 1. Place the machine on a firm, level surface. Using a digital inclinometer, check that the chassis and the front axle are level with each other within +/- 0.25 degrees side to side.
- Using the manual levelling procedure (refer to page 3-15), level the platform using a digital 2. inclinometer to within +/- 0.25 degrees.

NOTE: Since level has not yet been calibrated, ignore the level indicators on the platform and level using the digital inclinometer only.

- 3. Switch the machine to ground controls.
- 4. Press and hold "ESC" for 5 seconds until "#### MENU: HELP: PRESS ENTER" is displayed.
- Scroll to "ACCESS LEVEL" and press "ENTER".
 Enter the code 2222 for "ACCESS LEVEL 2" and press "ENTER".
 Scroll to "SETUPS" and press "ENTER".
 Scroll to "TILT SETUPS" and press "ENTER".
 The question "CALIBRATE LEVEL" pops up. Press "ENTER".
 Press "ENTER" for yes.

To confirm level calibration has worked, switch the machine off then back on again.

- Press and hold "ESC" for 5 seconds.
 Scroll to "DIAGNOSTICS" and press "ENTER".
 Select "SYSTEM" and press "ENTER".
 Scroll to "TILT" to display the platform tilt angles.
- 15. Press "ENTER" to display the chassis tilt angles. 16. Press "ESC" then scroll to "AXLE" and press "ENTER" to display the axle tilt angles.
- 17. All angles displayed during 14, 15 and 16 should be below 0.2 degrees. If not, repeat the procedure from 5.

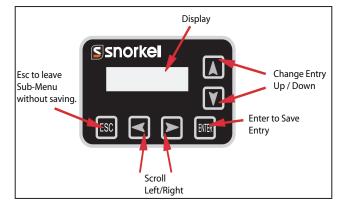
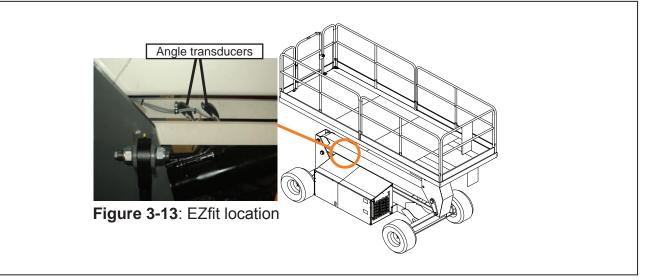


Figure 3-12: EZcal Display

CALIBRATE HEIGHT

This machine has angle transducers (EZfit) attached to the boom which allows the ECU to calculate the platform height by comparing the boom angle with the platform angle. There are two available for self checking in case one fails.





HEIGHT CALIBRATION PROCEDURE

If "LEVEL" hasn't been calibrated, then follow the procedure (refer to page 3-17) to "CALIBRATE LEVEL" first.

- Place the machine on a firm level surface and level the platform.
- Switch the machine to ground controls.
 Press and hold "ESC" for 5 seconds until "#### MENU: HELP: PRESS ENTER" is disa) A Scroll to "ACCESS LEVEL" and press "ENTER".
 b) Enter code 2222 for "ACCESS LEVEL 2" and press "ENTER".
 c) Scroll to "SETUPS" and press "ENTER".
 c) Scroll to "HEIGHT SETUPS" and press "ENTER".

- 8.
- Scroll to "CALIBRATE HEIGHT" and press "ENTER". The question "PLATFORM DOWN" pops up. Check that the platform is fully lowered and press "ENTER"
- 10. The suggestion "PLEASE LIFT" pops up. Use the lift controls to fully elevate the platform. 11. The suggestion "PLEASE LOWER" pops up. Use the lower control to fully lower the plat-
- form.
- 12. The suggestion "CAL DATE" pops up. Use the up and right arrows to enter the calibration date and press "ENTER".
- 13. The suggestion "FINISHED" pops up. Height calibration is now finished.

SERVICE AND REPAIR

CALIBRATE LOAD

This machine has a pressure transducer fitted to the lift cylinder which allows the ECU to calculate the platform load by comparing the lift pressure with load calibration curves stored in the ECU.



LOAD CALIBRATION PROCEDURE

If "LEVEL" hasn't been calibrated, then follow the procedure (refer to page 3-17) to "CALIBRATE LEVEL" first.

cylinder pressure transducers are replaced and/or moved, platform load must be recalibrated using the procedure provided. Failure to do so could result in serious injury or death.

If "HEIGHT" hasn't been calibrated, then follow the procedure (refer to page 3-18) to "CALIBRATE HEIGHT" first.

- 1. Place the machine on a firm level surface and level the platform.
- Switch the machine to ground controls.
 Press and hold "ESC" for 5 seconds until "#### MENU: HELP: PRESS ENTER" is displayed.
- 4.
- Scroll to "ACCESS LEVEL" and press "ENTER". Enter code 2222 for "ACCESS LEVEL 2" and press "ENTER". Scroll to "SETUPS" and press "ENTER". Scroll to "LOAD SETUPS" and press "ENTER". 5.
- 6.
- 7.
- Scroll to "CALIBRATE LOAD" and press "ENTER". 8.
- The guestion "REDO DYNAMIC" pops up. Press on the up arrow for yes and press "EN-9 TER"
- 10. The guestion "PLATFORM DOWN" pops up. Press "ENTER" to confirm the platform is fully lowered.
- 11. The question "PLATFORM LOADED" pops up. Place the safe working load (SWL) on the platform and press "ENTER"

- platform and press "ENTER".
 12. The suggestion "PLEASE LIFT" pops up. Use the lift controls to fully elevate the platform. Do not release the control until the platform is fully elevated.
 13. The suggestion "PLEASE LOWER" pops up. Use the lower control to fully lower the platform. Do not release the control until the platform is fully lowered.
 14. The question "REDO LOADED" pops up. Press on the up arrow for yes and press "ENTER".
 15. The question "PLATFORM LOADED" pops up. Place the safe working load (SWL) on the platform and press "ENTER".
 16. The suggestion "PLEASE LIFT" pops up. Use the lift controls to fully elevate the platform. Do not release the control until the platform is fully elevated.

NOTE: During this elevation procedure, the platform will lift-stop-lift repeating the process several times taking load readings while the work platform is in a stationary position. Do not release the lift switch until the platform is fully elevated.

17. The suggestion "PLEASE LOWER" pops up. Use the lower control to fully lower the plat-form. Do not release the control until the platform is fully lowered.

NOTE: During this lowering procedure, the platform will lower-stop-lower repeating the process several times taking load readings while the work platform is in a stationary position. Do not release the lift switch until the platform is fully lowered.

- The question "REDO EMPTY" pops up. Press on the up arrow for yes and press "ENTER".
 The question "PLATFORM EMPTY" pops up. Remove the safe working load (SWL) from the platform and press "ENTER".
 The suggestion "PLEASE LIFT" pops up. Use the lift controls to fully elevate the platform.
- Do not release the control until the platform is fully elevated.

NOTE: During this elevation procedure, the platform will lift-stop-lift repeating the process several times taking load readings while the work platform is in a stationary position. Do not release the lift switch until the platform is fully elevated.

21. The suggestion "PLEASE LOWER" pops up. Use the lower control to fully lower the plat-form. Do not release the control until the platform is fully lowered.

NOTE: During this lowering procedure, the platform will lower-stop-lower repeating the process several times taking load readings while the work platform is in a stationary position. Do not release the lift switch until the platform is fully lowered.

- 22. The suggestion "CAL DATE" pops up. Use the up and right arrows to enter the calibration date and press "ENTER".23. The suggestion "FINISHED" pops up. Load calibration is now finished.

SERVICE AND REPAIR

TORQUE SPECIFICATIONS

HYDRAULIC COMPONENTS

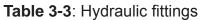
NOTE: Always lubricate threads with clean hydraulic oil prior to installation

Use the following values to torque hydraulic components used on Snorkel work platforms.

	ORFS			JIC Hose fittings			BSP 60° cone		
Thread size	Tightening Nm	FFWR new	FFWR reassembly	Hose dim.	Thread	FFWR hose	FFWR pipe	Thread size	Tightening Nm
9/16″ – 18	25	1/2-3/4	1/4-1/2	3/16	7/16"-20 UNF	2	2	1/8"	20
11/16″ – 16	35	1/2-3/4	1/4-1/2		1/2"-20 UNF	2	2	1/4"	25
13/16 – 16	55	1/2-3/4	1/4-1/2	1/4	9/16"-18 UNF	2	1 1/2	3/8"	40
1" – 14	80	1/2-3/4	1/4–1/2	3/8	3/4"-16 UNF	2	1 1/2	1/2"	60
1 3/16" – 12	120	1/3-1/2	1/4–1/2	1/2	7/8"-14 UNF	1 1/2	1 1/2	5/8"	70
1 7/16" – 12	150	1/3-1/2	1/4-1/2	3/4	1.1/16"-12 UN	1	1 1/4	3/4"	115
1 11/16" – 12	180	1/3–1/2	1/4–1/2	1	1.5/16"-12 UN	1	1	1"	140
2" – 12	220	1/3-1/2	1/4-1/2	1 1/4	1.5/8"–12 UN	1	1	1 1/4"	200
2 1/2"- 12	490	1/3-1/2	1/4-1/2	1 1/2	1.7/8"–12 UN	1	1		
				2	2.1/2"-12 UN	1	1	1 1/2"	270
								2"	350

BSP Tread	Torque (Nm)	UN/UNF Thread	Torque (Nm)
G 1/8"			
G 1/8"	20	7/16"-20 UNF	20
G 1/4"	45	1/2"-20 UNF	25
G 3/8"	70	9/16"-18 UNF	30
G 1/2"	85	3/4"-16 UNF	45
G 1/2"	85		
G 3/4"	170	1 1/16"-12 UN	85
G 1"	330	1 5/16"-12 UN	130
G 1 1/4"	430	1 5/16"-12 UN	170
G 1 1/2"	510	1 7/8"-12 UN	180
		7/8"-14 UNF	55

Table 3-2: Hose fittings



FASTENERS

This standard applies to the pre-loading of fasteners measured by installation torque.

NOTE: For other pre-loading methods or fasteners, consult Snorkel engineering department.

This general standard applies to all SAE and metric fasteners unless otherwise specified.

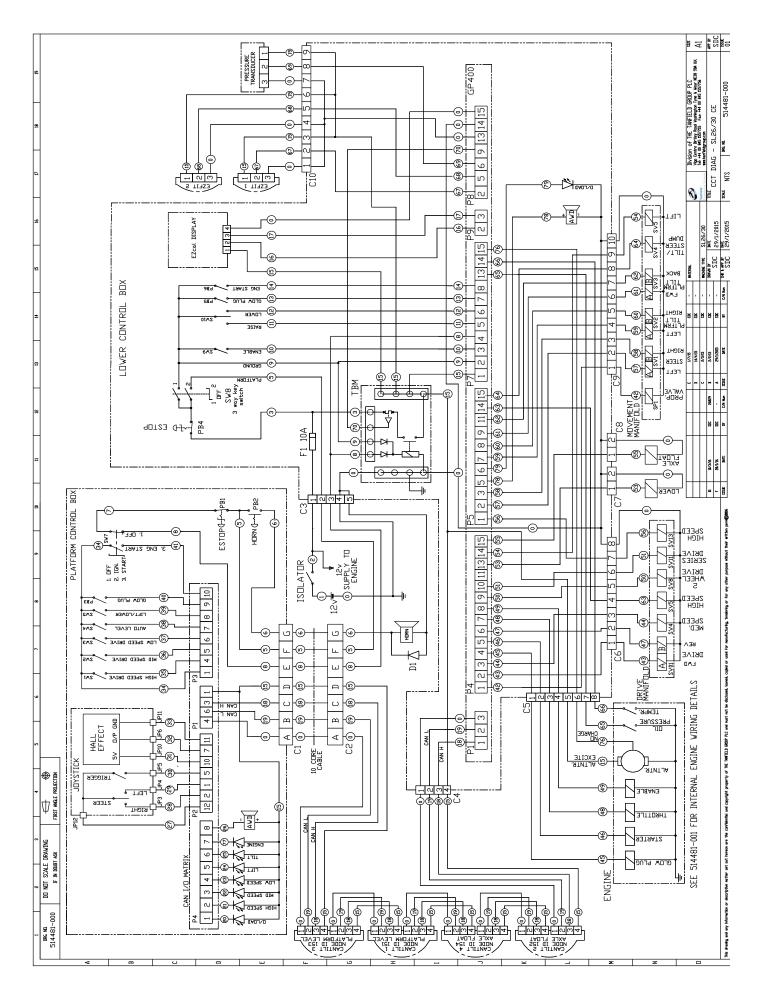
THREAD CONDITION

- For lube or zinc plated fasteners, use k = 0.15For dry unplated fasteners, use k = .20
- •

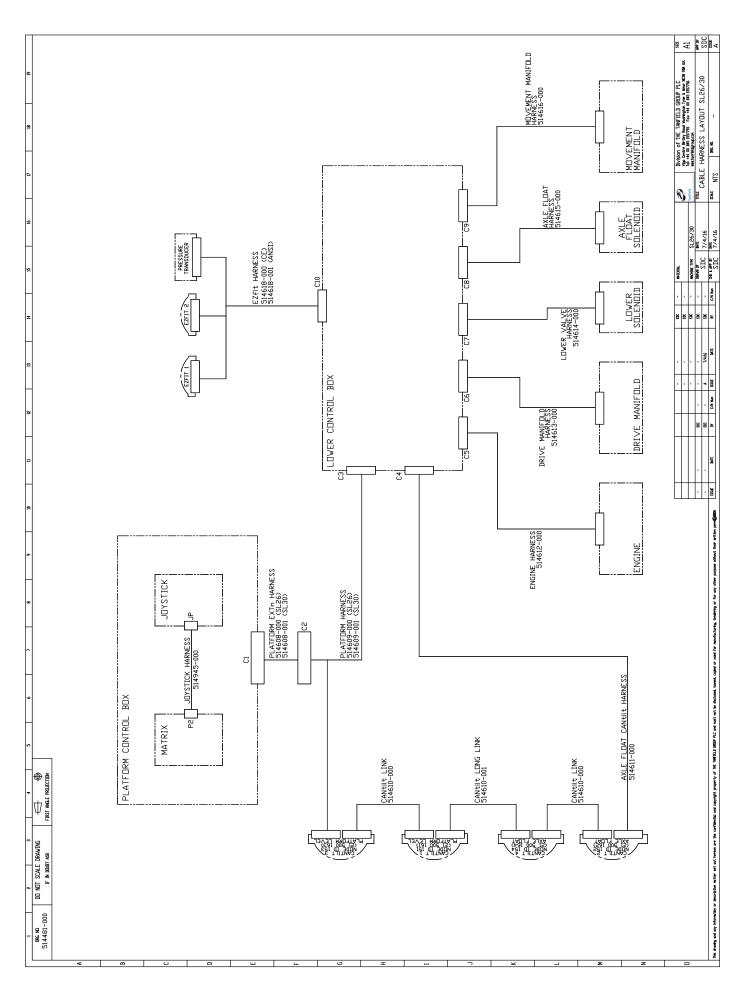
		SAE J	429 Grade 5 SAE J429 Grade 8				SAE	SAE J429 Grade 5		SAE J429 Grade 8		rade 8			
	lominal read Size	Clamp Load		ening que K=.20	Clamp Load		ening que K=.20	т	Nominal hread Size	Clamp Load		rque K=.20	Clamp Load		tening rque K=.20
		lbs.	in-lbs.	in-lbs.	lbs.	in-lbs.	in-lbs.			lbs.	in-lbs.	in-lbs.	lbs.	in-lbs.	in-lbs.
	1/4 -20	2,000	75	100	2850	107	143		1/4 -28	2,300	85	115	3250	120	163
ies	5/16 - 18	3,350	157	210	4700	220	305	ŝ	5/16-24	3,700	173	230	5200	245	325
Series		lbs.	ft-lbs.	ft-lbs.	lbs.	ft-lbs.	ft-lbs.	eries		lbs.	ft-lbs.	ft-lbs.	lbs.	ft-lbs.	ft-lbs.
ad	3/8-16	4,950	23	31	6950	32.5	44	dS	3/8-24	5,600	26	35	7900	37	50
Thread	7/16-14	6,800	37	50	9600	53	70	Thread	7/16-20	7,550	42	55	10700	59	78
	1/2-13	9,050	57	75	12800	80	107		1/2-20	10,200	64	85	14400	90	120
Coarse	9/16-12	11,600	82	109	16400	115	154	Fine	9/16-18	13,000	92	122	18300	129	172
3	5/8-11	14,500	113	151	20300	159	211		5/8-18	16,300	128	170	23000	180	240
Unified	3/4-10	21,300	200	266	30100	282	376	Unified	3/4-16	23,800	223	298	33600	315	420
Uni	7/8-9	29,435	321	430	41550	454	606	5	7/8-14	32,480	355	473	45855	500	668
	1-8	38,600	483	640	54540	680	900		1-12	42,270	528	704	59670	745	995

Table 3-4: Torque specifications for SAE fasteners

SCHEMATICS ELECTRICAL SCHEMATIC CE - 514481-000

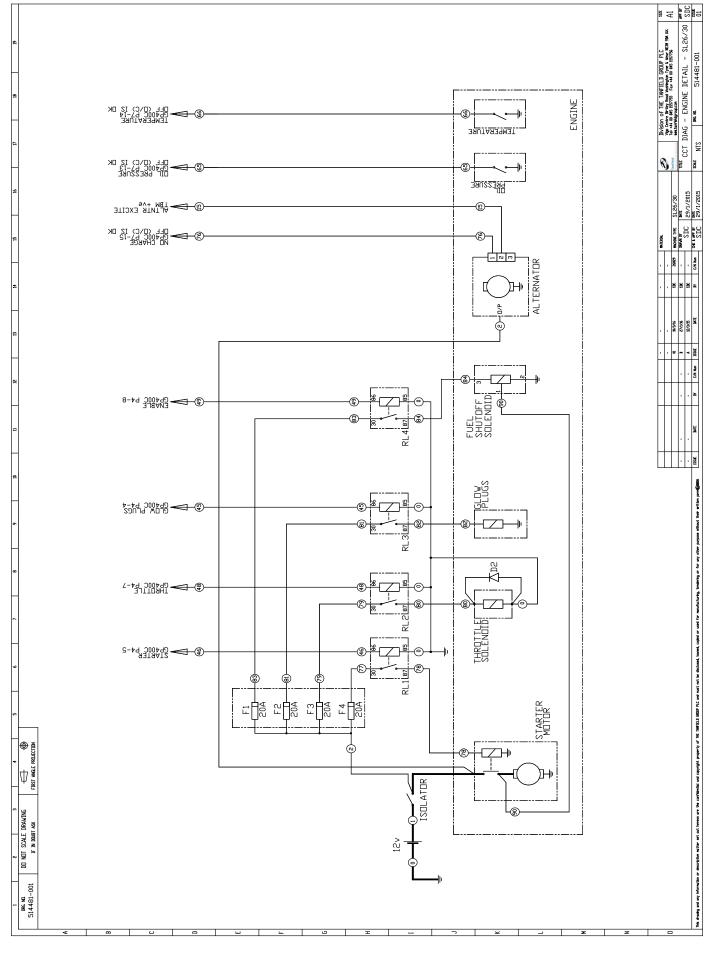


CABLE HARNESS SCHEMATIC - 514481-000



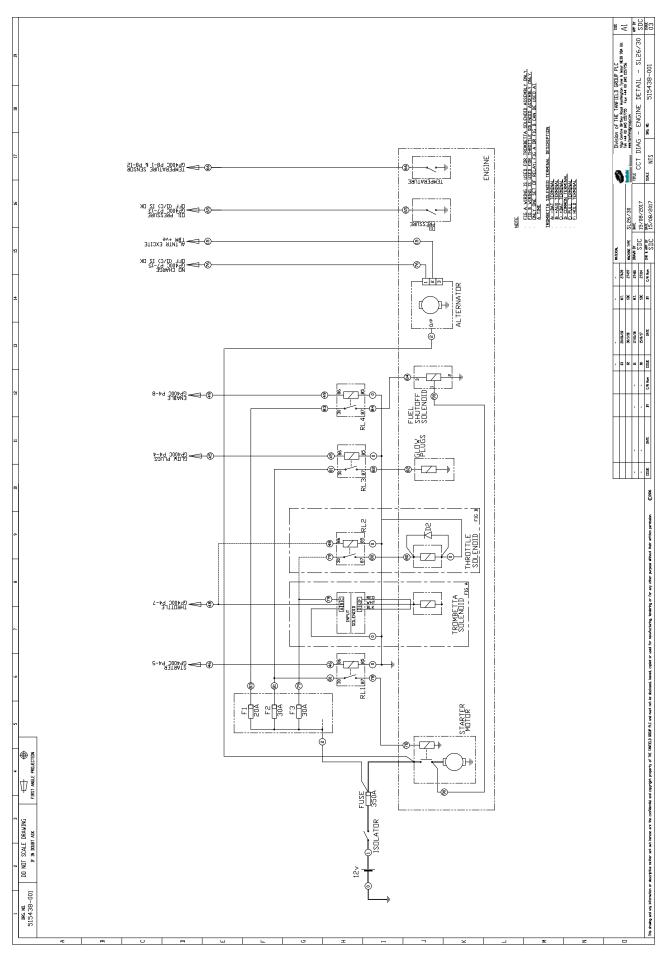
ENGINE - 514481-001

(Before SN SL26-01-xxxx00045 /SL30-01-xxxx00124)

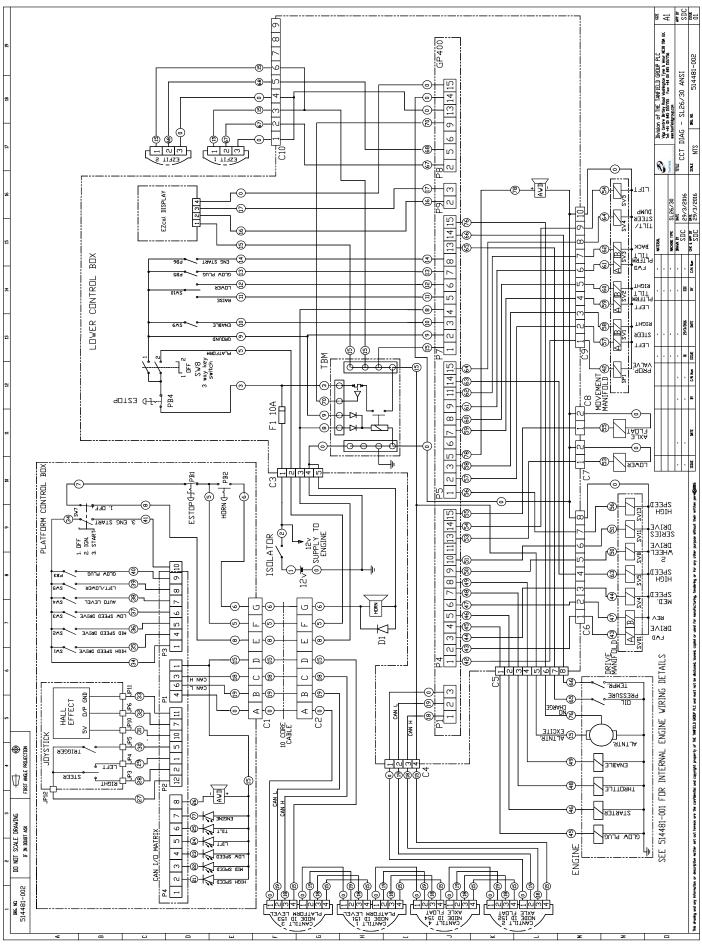


ENGINE - 515438-001

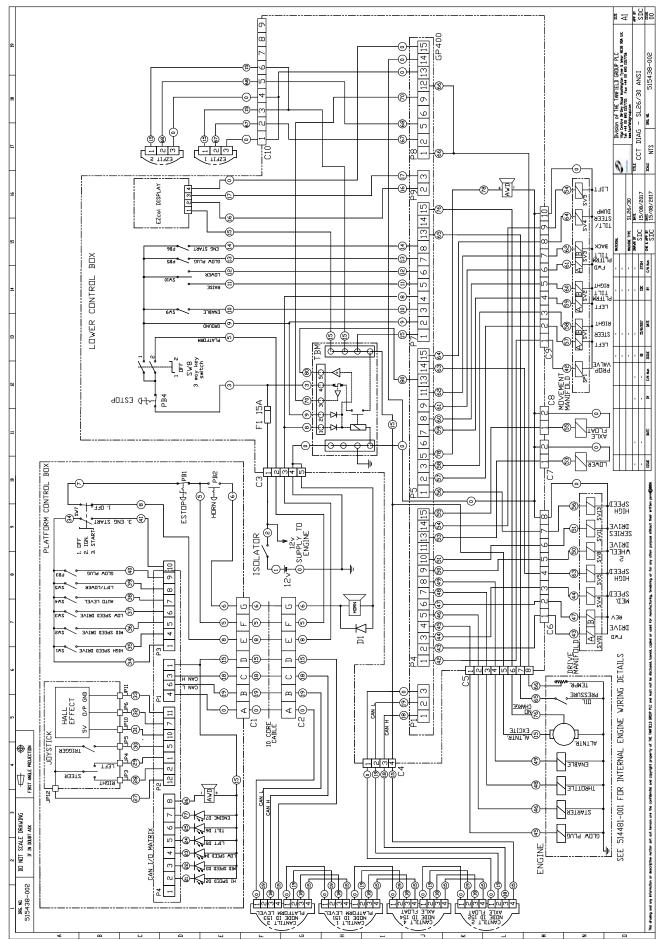
(After SN SL26-01-xxxx00046 /SL30-01-xxxx00125)



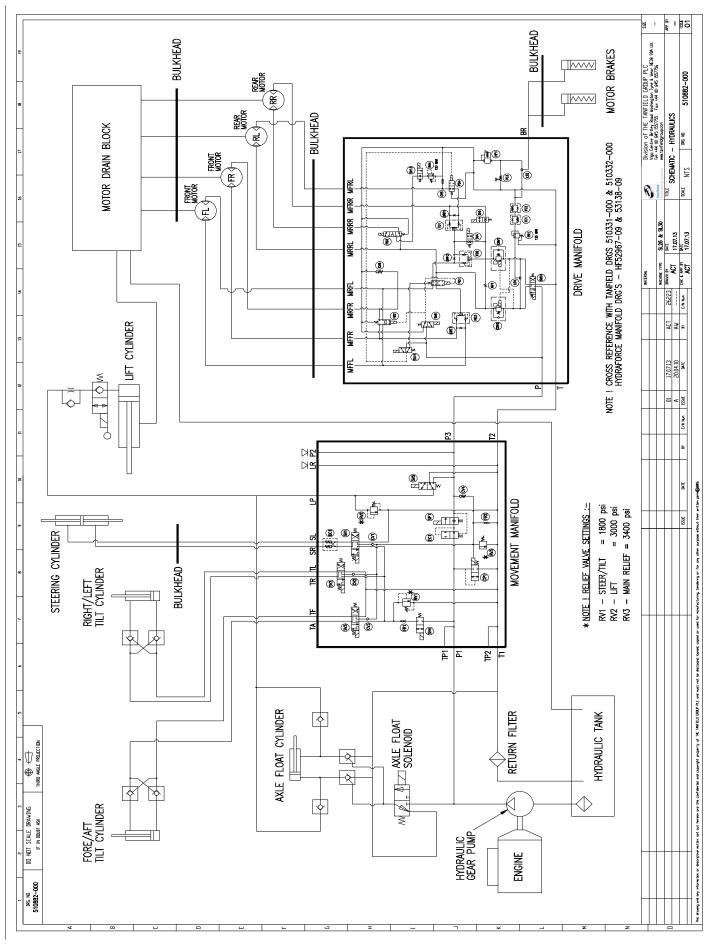
ELECTRICAL SCHEMATIC ANSI - 514481-002 (Before SN SL26-01-xxxx00045 /SL30-01-xxxx00124)



ELECTRICAL SCHEMATIC ANSI - 515438-002 (After SN SL26-01-xxxx00046 /SL30-01-xxxx00125)



HYDRAULIC SCHEMATIC - 510882-000





Serial Number SL26SL-01-xxxx00093 and after Serial Number SL30-01-060210 and after

Part Number 514949-201 July 2019

ADDENDUM

SECTION

Tunnel option

7



INTRODUCTION

This Tunnel Option Addendum manual should to be used with the current service and parts manual issued with the machine. Some of the pages in this Addendum are intended to replace pages in the current service and parts manual where the Tunnel Option parts have been added or changed.

Pages that are intended to be direct replacements to the current service manual have been identified with a (Rep Page *-*) next to the page number (bottom right). The Rep Page number will correspond to a page in the current service and parts manual to be replaced (ie. "Rep Page 5-2", would replace Page 5-2 in the current service and parts manual).

CONTENTS

INTRODUCTION	3
INSPECTION AND MAINTENANCE	4
SPECIFICATIONS	6
ILLUSTRATED PARTS	

DRIVE/WORK LIGHT ASSEMBLY	8
PLATFORM ASSEMBLY WITH WORK LIGHTS	11
PLATFORM ASSEMBLY SL26 - SLIDE OUT SECTION	12
GENERATOR FABRICATION ASSEMBLY	14
GENERATOR CONTROL BOX ASSEMBLY	15
GENERATOR HOSE ASSEMBLY	16
MAIN HOSE ASSEMBLY	17
GENERATOR FITTINGS ASSEMBLY	18
POWER TO PLATFORM ASSEMBLY	19
ENGINE CABINET ASSEMBLY	20
CONTROL MODULE ASSEMBLY	22
SCHEMATIC CE(TUNNEL OPTION)	24
ENGINE SCHEMATIC & LIGHT DETAIL CE/ANSI	25
SCHEMATIC ANSI(TUNNEL OPTION)	26
HYDRAULIC HOSE SCHEMATIC	27
HYDRAULIC HOSE ASSEMBLY - FITTINGS	29
HYDRAULIC HOSE ASSEMBLY	30
HYDRAULIC HOSE ASSEMBLY	31

INSPECTION AND MAINTENANCE

The complete inspection consists of periodic visual and operational checks along with periodic minor adjustments that assure proper performance. Daily inspection will prevent abnormal wear and prolong the life of all systems. The inspection and maintenance schedule should be performed by personnel who are trained and familiar with mechanical and electrical procedures.



The daily preventative maintenance checklist has been designed for machine service and maintenance. Photocopy the checklist page and use the checklist when inspecting the machine.

INSPECTIONANDMAINTENANCE

DAILY PREVENTATIVE MAINTENANCE SCHEDULE

MAINTENANCE TABLE KEY

- **Y** = Yes/Acceptable
- N = No/Not Acceptable
- **R** = Repaired/Acceptable

PREVENTATIVE MAINTENANCE REPORT

Ν

Date:		
Owner:	 	
Model #:		
Serial #:		
Serviced by:		

INSPECTION OR SERVICES

COMPONENT

COMPONENT INSPECTION OR SERVICES Υ Operator's Check that the operators manual is in Manual the manual holder and all pages are intact and readable Labels & Check that labels and decals are in Decals place, intact and readable Entire Unit Perform pre-operation inspection Check for and repair any damage Electrical Check cables and wiring harness condisystem tion (No wear or physical damage) Battery Check electrolyte level System Check battery cable condition Check terminals are clean and connectors are tight Check charger condition and operation Charge batteries Hydraulic Check oil level fluid Hydraulic Check all fittings are tight and there are system no leaks Drive motors Check for operation and leaks Generator - Check cables and wiring harness con (Optional) dition (No wear or physical damage) Check fittings are secure and there are no leaks Hydraulic Check fittings are secure and there are pump no leaks Emergency Check emergency lowering correctly lowering (See emergency lowering procedure) Controller Check condition and operation Platform Check fasteners are in place, correctly deck and tightened and not damaged rails Check the structure and welds for damage, deformation, corrosion and cracks Check condition of deck (no damage, deformation, corrosion or cracks Check entry gate closure functions correcly

 Table 2: Daily preventative maintenance checklist

Elevating assembly	Inspect for external damage, dents, loose rivets or cracks.		
	Check the structure and welds for dam- age, deformation, corrosion and cracks		
Chassis	Check cables for pinch or rubbing points		
	Check the structure and welds for dam- age, deformation, corrosion and cracks		
Lift Cylinders	ift Cylinders Check for leaks		
Wheels	Check for loose components		
	Check for damage to tyres		
Harness	Check fasteners are secure		
anchor point	Check for damage, deformation, corrosion and cracks		
System func- tion inspec- tion Conduct system function inspection (see system function inspection pocedure)			
Emergency stops	Check that the emergency stop button on the basket panels opertates correctly		
	Check that the emergency stop button on the ground control panel operates correctly		
Brakes	Check that the brakes operate correctly		
Horn	Check that the horn sounds when activated		
Controller and Sensors	Check that the level sensor functions cor- rectly (drive and platform raise functions are disabled and only platform lowering enabled) when the platform inclination ex- ceeds the specification inclination value.		
	Check full drive speed range is enabled when the platform is stowed.		
	Check that only reduced drive speed range is enabled when the platform is elevated.		

* NOTE: Use ISO #46 during summer and ISO #32 during winter

SPECIFICATIONS

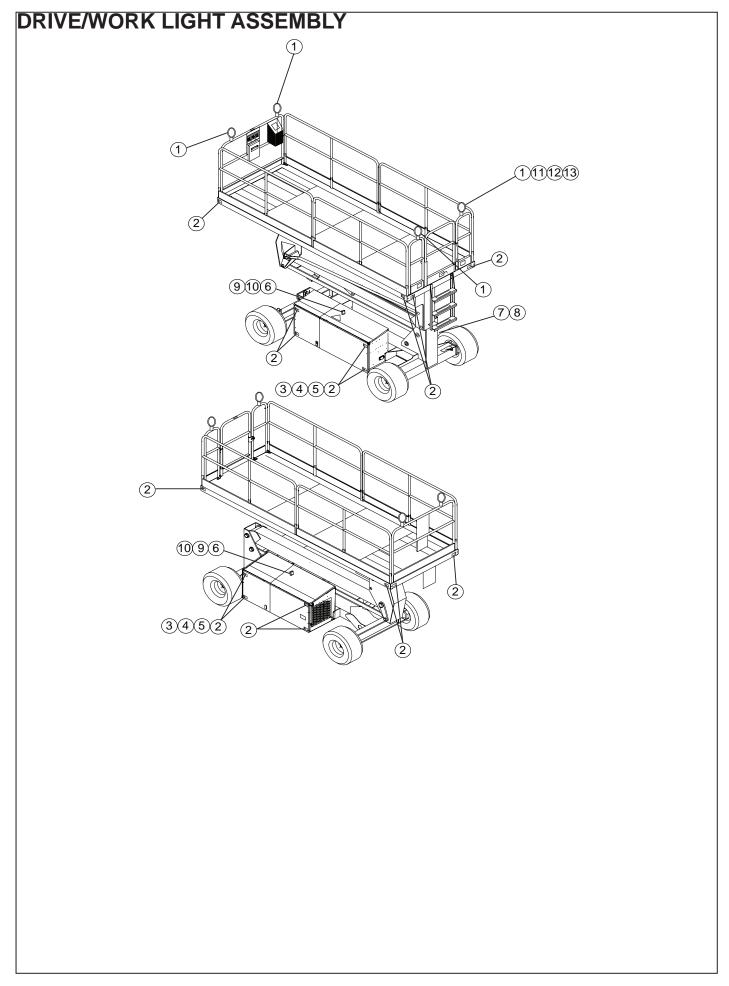
ITEM	SL26SL	SL30SL
PLATFORM SIZE (INSIDE TOEBOARDS)		
STANDARD	1.71 m x 3.66 m [67.5 in. x 144 in.]	1.71 m x 4.22 m [67.5 in. x 166.5 in.]
SLIDE OUT DECK EXTENDED	1.71 m x 4.55 m [67.5 in. x 179 in.]	N/A
MAXIMUM PLATFORM CAPACITY		
STANDARD	680 kg [1500 lbs.]	590 kg [1300 lbs.]
W/EXTENSION	680 kg[1500 lbs.]	N/A
On EXTENSION	225 kg [496 lbs.]	N/A
MAXIMUM NUMBER OF OCCUPANTS		
STANDARD	5 PEOPLE (WIND SPEED 12.5 m/s)	5 PEOPLE (WIND SPEED 12.5 m/s)
On EXTENSION	2 PEOPLE (WIND SPEED 12.5 m/s)	N/A
HEIGHT		
WORKING HEIGHT	9.75 m [32 ft.]	10.85 m [35.6 ft.]
MAXIMUM PLATFORM HEIGHT	7.90 m [26 ft.]	9.0 m [29.5 ft.]
MINIMUM PLATFORM HEIGHT	1.5 m [59 in.]	1.5 m [59 in.]
MAXIMUM DRIVE HEIGHT	7.90 m [26 ft.]	9.0 m [29.5 ft.]
DIMENSIONS		
WEIGHT	DIESEL: 3690 kg [8135 lbs.]	DIESEL: 3540 kg [7804 lbs.]
OVERALL WIDTH, STANDARD	2.13 m [84 in.]	2.13 m [84 in.]
OVERALL HEIGHT	2.6 m [102.5 in.]	2.6 m [102.5 in.]
OVERALL LENGTH, STANDARD	3.79 m [149 in.]	4.39 m [173 in.]
SURFACE SPEED		
PLATFORM LOWERED HIGH/LOW	0 TO 5.0 km/h [0 TO 3.1 m.p.h.]	0 TO 5.0 km/h [0 TO 3.1 m.p.h.]
PLATFORM RAISED	0 TO 0.8 km/h [0 TO 0.5 m.p.h.]	0 TO 0.8 km/h [0 TO 0.5 m.p.h.]
SYSTEM VOLTAGE	12 VOLT DC	12 VOLT DC
HYDRAULIC TANK CAPACITY	74 L [19.5 US GALLONS]	47 L [19.5 US GALLONS]
MAXIMUM HYDRAULIC SYSTEM PRESSURE	210 bar [3000 psi]	210 bar [3000 psi]
HYDRAULIC FLUID		
ABOVE 32°F [0°C]	ISO #46 (SEE DECAL ON TANK)	ISO #46 (SEE DECAL ON TANK)
NORMAL USE, BELOW 32°F [0°C]	ISO #32	ISO #32
BELOW 0°F [-17°C]	ISO #15	ISO #15
LIFT SYSTEM	ONE SINGLE STAGE LIFT CYLINDER	ONE SINGLE STAGE LIFT CYLINDER
LIFT SPEED	RAISE: 21 SECONDS/LOWER: 32 SECONDS	RAISE: 24 SECONDS/LOWER: 36 SECONDS
PLATFORM LEVELLING	13° SIDE TO SIDE, 9° FRONT AND BACK	13º SIDE TO SIDE, 9º FRONT AND BACK
POWER SOURCE	20 HP (DIESEL), 15 kW	20 HP (DIESEL), 15kW
DRIVE CONTROL	PROPORTIONAL	PROPORTIONAL
CONTROL SYSTEM	JOYSTICK CONTROLLER WITH SAFETY	JOYSTICK CONTROLLER WITH SAFETY
	INTERLOCK TRIGGER AND THUMB ROCKER	INTERLOCK TRIGGER AND THUMB ROCKER
	STEERING, TOGGLE SELECTOR	STEERING, TOGGLE SELECTOR
	EMERGENCY STOP SWITCHES	EMERGENCY STOP SWITCHES
HORIZONTAL DRIVE	FOUR WHEEL, HYDRAULIC MOTORS	FOUR WHEEL, HYDRAULIC MOTORS
TYRES (STANDARD)	26 x 12.00 - 12 SUPER TERRA-GRIP WITH TRAC SEAL	26 x 12.00 - 12 SUPER TERRA - GRIP WITH TRAC SEAL
ANSI SPECIFICATION PNEUMATIC TYRE PRESSURE	DO NOT EXCEED 57 PSI	DO NOT EXCEED 57 PSI
PARKING BRAKES	DUAL SPRING APPLIED, HYDRAULIC RELEASE, MULTI DISC	DUAL SPRING APPLIED, HYDRAULIC RELEASE, MULTI DISC
TURNING RADIUS (INSIDE)	3.96 m [13 ft.]	3.96 m [13 ft.]
MAXIMUM GRADEABILITY	50% [27°]	50% [27°]
WHEEL BASE	2.54 m [100 in.]	2.54 [100 in.]
GUARDRAILS	1.7 m [67 in.] HIGH, FOLD DOWN WITH GATE	1.7 m [67 in.] HIGH, FOLD DOWN WITH GATE
TOEBOARD	152 mm [6 in.] HIGH	152 mm [6 in.] HIGH
IVEBUARD		

SPECIFICATIONS

WHEEL LOADING	2000 kg (4400 lb)	2000 kg (4400 lb)
VIBRATION OF THIS MACHINE DOES NOT EXCEED	2.5 m/s ²	2.5 m/s²
NOISE PRESSURE LEVEL	107 dB AT CONTROL STATION	107 dB AT CONTROL STATION
MACHINE VIBRATION	WHOLE BODY VIBRATION < 0.5 m/s ² , HAND ARM VIBRATION < 2.5 m/s ²	WHOLE BODY VIBRATION < 0.5 m/s ² , HAND ARM VIBRATION < 2.5 m/s ²
OPTIONAL AC GENERATOR	115/230V,3.5KvA,3000RPM,50hz	115/230V,3.5KvA,3000RPM,50hz

Table 2-3: SL26SL/SL30SL Specification

NOTE: Specifications are subject to change without notice. Hot weather or heavy use may affect performance. Refer to the service manual for complete parts and service information. This machine meets or exceeds all applicable OSHA and ANSI A92.6 - 1999.



DRIVE/WORK LIGHT ASSEMBLY

ITEM	PART	DESCRIPTION	QTY
1	3069528	LED WORKLIGHTS	4
2	25-0312	REFLECTOR - AMBER	8
3	056066-004	NUT, NYLOCKNUT DIN985 M4 8.0 ZINC	8
4	510592-020	BOLT, PHIPANMACHSCREW DIN7985 M4 X 20 8.8 ZINC	8
5	502453-003	WASHER, PLASTIC	8
6	515258-000	DRIVE LIGHT	2
7	510040-000	BEACON	1
8	510039-000	CAGE FOR BEACON	1
9	058502-020	Bolt SktCapScrew DIN912 M6 x 2 0mm 12.9 ZincPlated	4
10	056066-006	Nut NylockNut DIN985 M6 8.0 Zi ncPlated	4
11	515307-000	KNOB, KNURLED THROUGH KNOB 8MM(TOP)	4
12	515308-000	KNOB, KNURLED THROUGH KNOB 10MM (BOTTOM)	4
13	515306-000	WASHER, HALF SADDLE PLASTIC	8

PLATFORM ASSEMBLY WITH WORK LIGHTS

SL30 PLATFORM

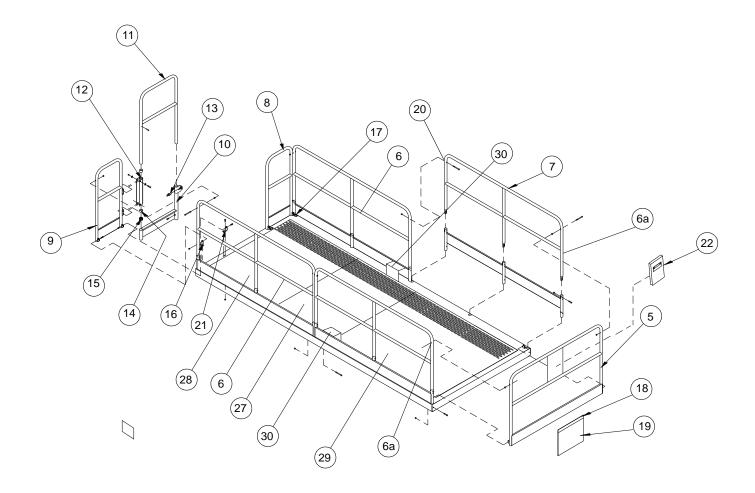
SL26 PLATFORM

ITEM	PART	DESCRIPTION	QTY
1	064540-011	Deck weldment	1
2	510502-000	Ladder weldment	1
3	064111-002	Pedestal weldment	1
4	510678-000	Safe deck mounting	30
*5	515274-000	Guardrail, front (Work- lights)	1
6	064696-000	Kick plate, side	4
7	064698-000	Guardrail, side	4
*8	515276-000	Guardrail, end left hand side (Worklights)	1
*9	515275-000	Guardrail, end right hand side (Worklights)	1
10	067764-001	Kick plate, gate	1
11	067883-000	Gate weldment	1
12	067712-000	Gate pivot tube	1
13	003570-005	Plunger assembly	1
14	062642-026	Bushing, gate pivot	2
15	066526-004	Gate spring	1
16	064688-001	Pivot bracket RH	2
17	064688-002	Pivot bracket LH	2
18	064447-000	Skirt plate (rubber skirt)	1
19	064448-000	Rubber skirt	1
20	067695-000	Spacer, guardrail	6
21	064046-000	Rail mounting bracket	2
22	010076-000	Manual box (Black plastic)	1
23	510677-000	Safe deck, aluminium stabil	5
24	057052-050	Bolt, M12 x 50 mm 10.9	8
25	505087-012	Hardened washer, M12	16
26	056064-012	Nyloc nut, M12	8
30	515346-000	Surf Plug Guard	2

* Option Parts

ITEM	PART	DESCRIPTION	QTY
*1	515386-000	Deck weldment	1
2	510502-000	Ladder weldment	1
3	064111-001	Pedestal weldment	1
4	026554-002	Rivet (main deck)	24
5			
6	064695-000	Kick plate, side	2
*6a	515387-000	Kick plate, side	2
7	064697-000	Guardrail, side	4
*8	515276-000	Guardrail, end left hand side (Worklights)	1
*9	515275-000	Guardrail, end right hand side (Worklights)	1
10	067764-001	Kick plate, gate	1
11	067883-000	Gate weldment	1
12	067712-000	Gate pivot tube	1
13	003570-005	Plunger assembly	1
14	062642-026	Bushing, gate pivot	2
15	066526-004	Gate spring	1
16	064688-001	Pivot bracket RH	2
17	064688-002	Pivot bracket LH	2
18	064447-000	Skirt plate (rubber skirt)	1
19	064448-000	Rubber skirt	1
20	067695-000	Spacer, guardrail	6
21	064046-000	Rail mounting bracket	2
22	010076-000	Manual box (Black plastic)	1
23			
24	057052-050	Bolt, M12 x 50 mm 10.9	8
25	505087-012	Hardened washer, M12	16
26	056064-012	Nyloc nut, M12	8
27	515156-002	Aluminium Deck(centre)	1
28	515157-000	Aluminium Deck(gate)	1
29	515156-001	Aluminium Deck(under extension deck)	1
30	515346-000	Surf Plug Guard	2

PLATFORM ASSEMBLY WITH WORK LIGHTS

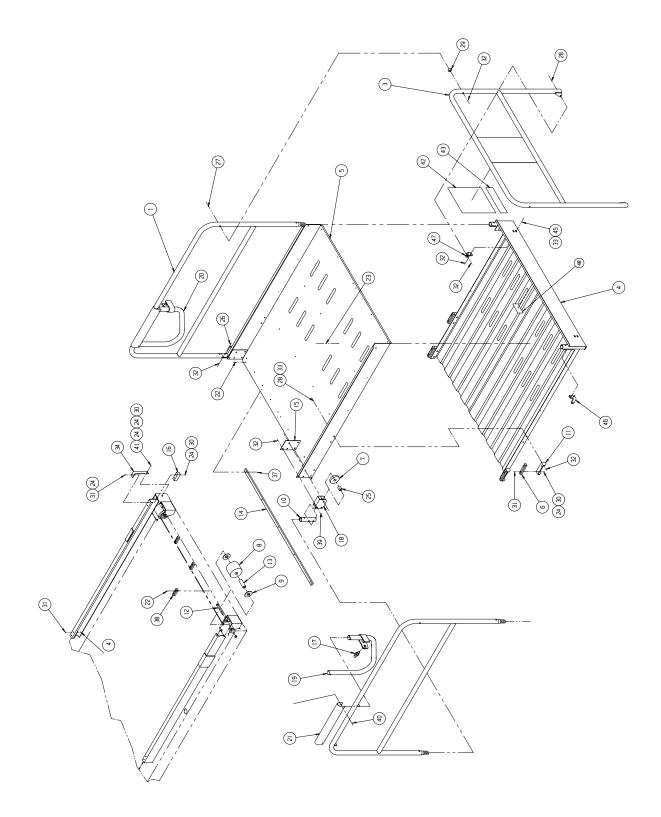


PLATFORM ASSEMBLY SL26 - SLIDE OUT SECTION

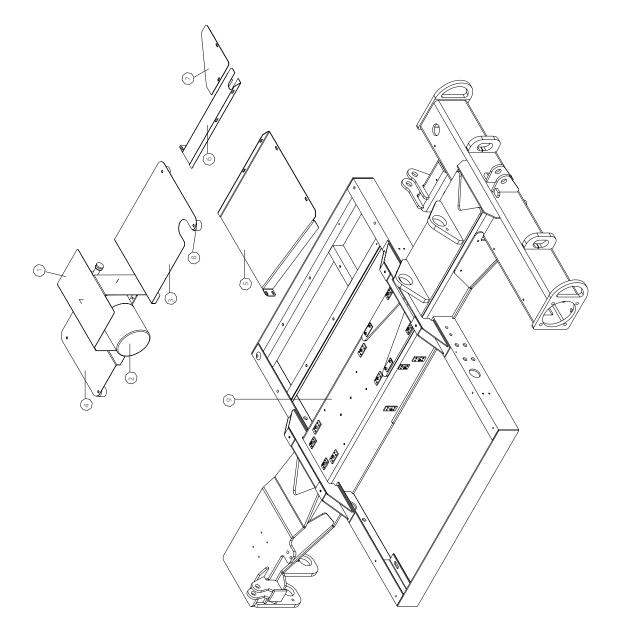
ITEM	PART	DESCRIPTION	QTY
1	064785-000	Side rail	2
2			
*3	515388-000	Front rail	1
4	064763-000	Deck weldment (Be- fore SN SL26SL-01- xxxx00092)	1
4	515824-000	Deck Slide Out Weldment (After SN SL26SL-01-xxxx00093)	1
5	064761-000	Floor (Aluminium)	1
6	063727-000	Block	4
7	064233-000	Wheel (narrow)	4
8	064234-000	Wheel (wide)	2
9	064235-000	Washer	4
10	064776-000	Tube, rail support	2
11	064425-000	Slide bracket (Be- fore SN SL26SL-01- xxxx00092)	4
11	515825-000	Slide Bracket (After SN SL26SL-01-xxxx00093)	4
12	063990-003	Axle	2
13	064249-000	Bushing (spanner)	2
14	064256-000	Bearing strip	1
15	064795-000	Gusset plate (Be- fore SN SL26SL-01- xxxx00092)	2
15	515827-000	GUSSET, RH (After SN SL26SL-01-xxxx00093)	2
15	515826-000	GUSSET, LH (After SN SL26SL-01-xxxx00093)	2
16	064267-000	Bumper pad	4
17	003570-001	Retaining pin assembly	2
18	064774-000	Roller bracket	2
19	064769-001	Right handle	1
20	064769-002	Left handle	1
21	064773-000	Handle bracket	2
22	026553-008	Pop rivet - 3/16 diameter 1/2 - 5/8 grip	12
23	026553-002	Pop rivet - 3/16 diameter 1/8 - 1/4 grip	30
24	011240-004	Flat washer 1/4 standard	22

ITEM	PART	DESCRIPTION	QTY
25	064240-001	Bushing	2
26	011254-018	Screw - Cap 3/8 - 16 x 2 1/4	4
27	011254-032	Screw - CAP 3/8 - 16 x 4	2
28	011254-010	Screw - CAP 3/8 - 16 x 1 1/4	10
29	067685-000	Spacer	2
30	011248-004	Locknut - 1/4 - 20	22
31	011252-014	Screw - 1/4 - 20 UNC hex hd x 1 3/4	10
32	011248-006	Locknut - 3/8 - 16	26
33	011240-006	Flat washer 3/8 stand- ard	12
34	064775-000	Front angle	2
35			
36			
37	011240-002	Washer #8	6
38	064247-000	Guide slide	3
39	011254-020	Screw - cap 3/8 - 16 x 2 1/2	6
40	011252-016	Screw - cap 1/4 - 20 x 2	4
41	011252-006	screw - cap 1/4 - 20 hex hd x 3/4	2
42	066550-006	Decal - danger	1
43	066551-003	Decal - danger	1
44			
45	011254-008	Screw - 3/8 - 16 hex hd x 1	4
46	064688-001	Bracket - toe board pivot right hand	1
47	064688-002	Bracket - toe board pivot left hand	1
48	101251-001	Decal - danger tip over	1

* Option Parts

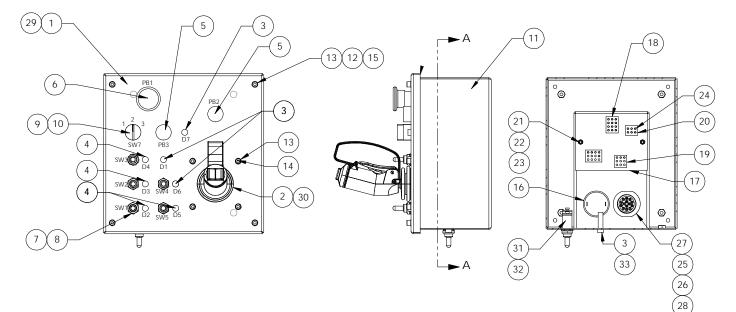


GENERATOR FABRICATION ASSEMBLY



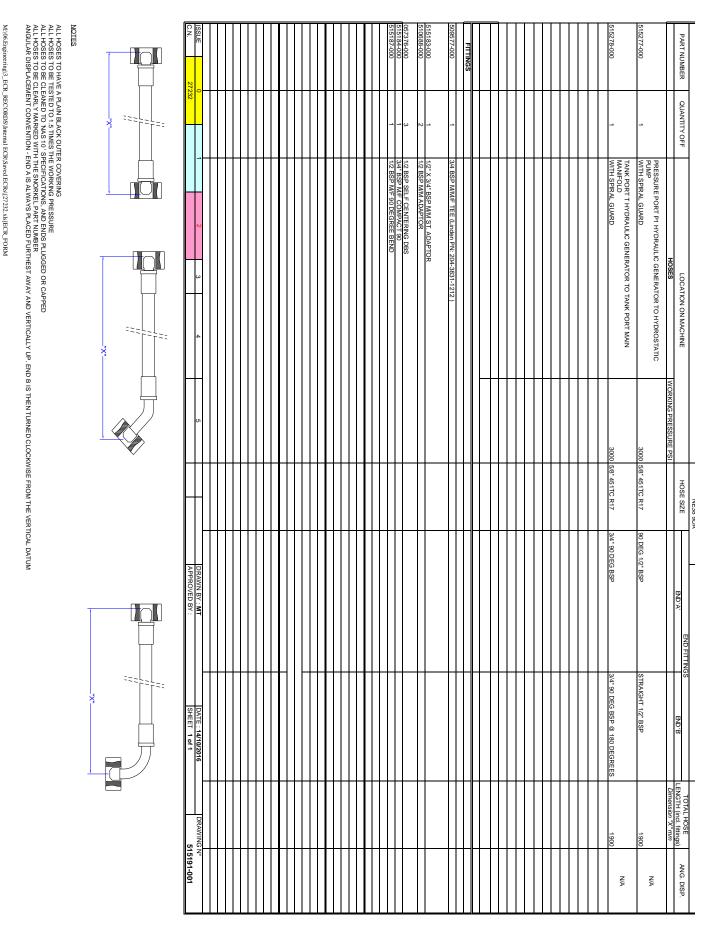
ITEM	PART	DESCRIPTION	QTY
1	515154-000	Generator Cover SL30	1
1	515393-000	Generator Cover SL26	1
2	513335-001	Hydraulic Generator,set @ 220v	1
	513335-000	Hydraulic Generator,set @ 110v	1
3	515242-000	Chassis Hose cover - Rear	1
4	515241-000	Chassis Hose cover - Front	1
5	515238-000	Hose cover - Rear LH	1
6	515239-000	Hose cover - Rear LH - Inner	1
7	515240-000	Hose cover - RH Outer	1
8	515243-000	Cover Spacer	4
	513335-002	Bracket Generator(Not shown)	1
9	515262-000	Chassis	1

GENERATOR CONTROL BOX ASSEMBLY - 515353-000



ITEM	PART	DESCRIPTION	QTY
1	514484-000	SL26/30 UPPER CONTROL PANEL	1
2	13888	JOYSTICK - GUARDED	1
3	512934-000	LED RED 12V	4
4	512935-000	LED GREEN 12V	4
5	510542-000	PUSHBUTTON; SCHNEIDER XB2BA21C	2
6	510524-000	SW TWIST RELEASE E/STOP; SCHNEIDER XB2BS542C	1
7	514182-000	BOOT COVER	6
8	510521-000	SW TGL SPDT ON-(ON)	5
9	514491-000	CONTACT BASE 1 N/O 1 N/C	1
10	514490-000	SWITCH HEAD 3-WAY STAYPUT/STAYPUT/SPRING TO CNTR	1
11	515354-000	SL UCB ENCLOSURE	1
12	056066-005	M5 NYLOCK NUT - 8	4
13	056069-005	M5 WASHER - GRADE 8	8
14	058501-025	M5 x 25 S.H.C.S GR 12.9	4
15	058501-016	M5 x 16 S.H.C.S GR 12.9	4
16	502588-000	ALARM, ECCO BEEPING 6-28VDC	1
17	3030169	MATRIX BOARD	1
18	510157-000	12WAY PANEL PLUG	2
19	510156-000	9WAY PANEL PLUG	1
20	510154-000	6WAY PANEL PLUG	1
21	058500-025	M4 x 25 SHCS - 12.9	2
22	056066-004	M4 NYLOCK NUT - 8	2
23	056069-004	M4 FLAT WASHER - GRADE 8	2
24	509755-000	Mate-N-Lock SCKT CONTACT	26
25	514604-000	LOCKWASHER DEUTSCH 114021	1
26	514605-000	LOCKNUT DEUTSCH 114020-90	1
27	3049862	14 WAY CONNECTOR DEUTSCH HD34-18-14PN	1
28	100338-013	CRIMP PIN DEUTSCH 0460-202-16141	7
29	514486-000	OVERLAY	1
30	514945-000	JOYSTICK HARNESS	1
31	510541-000	SW TGL SPDT (ON) OFF (ON)	1
32	0151459-NW	DECAL - MACHINE GENERATOR	1
33	515337-000-NW	DECAL - GENERATOR ACTIVE	1

GENERATOR HOSE ASSEMBLY



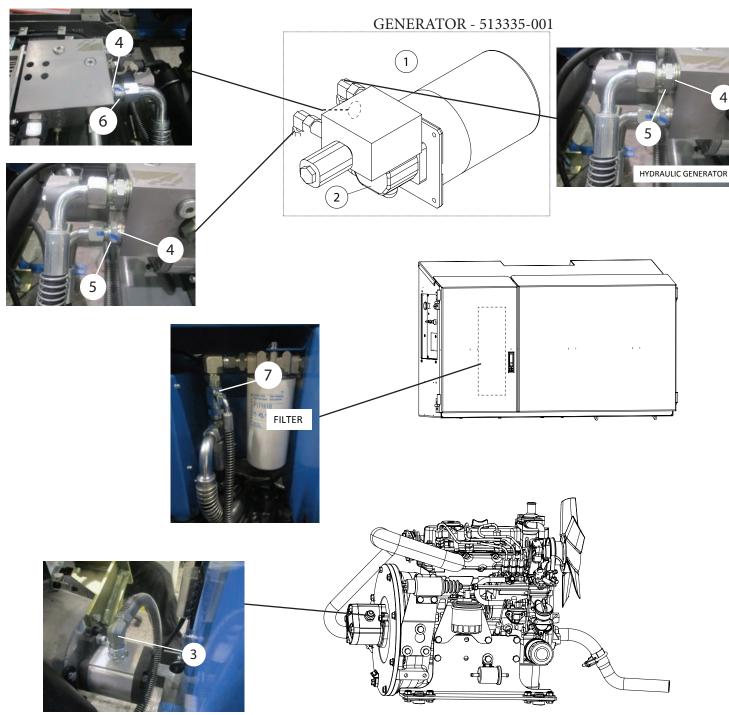
MAIN HOSE ASSEMBLY

TITINGS FIND Br. LENGTH 1/4 BAN/00 BOF SW/00 BOF SW/00 </th <th></th> <th>00 001</th> <th>TYNE & WEAR, NE38 9DA</th> <th></th> <th>WITHOUT THEIR WRITTEN CONSENT</th> <th></th> <th>SL30MG-CEN0156</th>		00 001	TYNE & WEAR, NE38 9DA		WITHOUT THEIR WRITTEN CONSENT		SL30MG-CEN0156
	ITEM DESCRIPTION	WORKING PRESSURE	HOSE SIZE	END 'A'	TINGS END 'B'	TOTAL HOSE LENGTH (incl. fittings)	ANG. DISP.
	HOSE DESCRIPTION LHF MOTOR DRAIN TO BH	230 Bar	1/4 SGUARD	BOF STR	1/4 BANJO	Dimension "X" 900	
	LHF BH TO RETURN MANIFOLD RHF MOTOR DRAIN TO BH	230 Bar 230 Bar	1/4 1/4 SGUARD	BOF STR BOF STR	BOF SW90 1/4 BANJO	1800 760	
	RHF BH TO RETURN MANIFOLD I HB MOTOD DAAIN TO BH	230 Bar 230 Bar	1/4	BOF STR BOF STP	BOF SW90 1// BAN IO	2500 am	
		230 Bar	17/L	BOF STR	BOF SW90	1550	
	RHR MOTOR DRAIN TO BH	230 Bar	*/\ 7/L	BOF STR	1/4 BANJO	006	
		230 Bar	17/L	BOF SW90	1/4 BANJO	3000	
	BRAKE PORT TO LHR BH TEE	230 Bar	171 171	BOF STR	BOF SW90	1600	
	LHR BHTEE TO RHR BH	230 Bar	1/4	BOF STR	BOF SW90	300	
	RHR BH TO RH BRAKE	230 Bar	4/1	BOF STR	BOF SW90	006	-
	STEER CYL TO LHF BH	230 Bar	1/4 SGUARD	BOF STR	BOF SW90	530	
2012 11/2010 2012 11/2010 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012	LHF BH TO MOVEMENT MANIFOLD (SL)	230 Bar	1/4	BOF STR	BOF SW90	1040	
NORM 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 000 51% 108,000 100 50% 108,000 100 50% 108,000 100 50% 100 50% 100 50% 100 50% 100 50% 100 50% 100 50% 100 50% 100 50% 100 50% 100 50% 100 50% 100 50% 100 50% 100 50% 1	STEER CYL TO RHF BH RHF RH TO MOVEMENT MANIFOLD (SR)	230 Bar 230 Bar	1/4 SGUARD	BOF STR BOF STR	BOF SW90 BOF SW90	530	
1028 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 1038 <th< td=""><td>RUN TEE TO AXLE FLOAT</td><td>230 Bar</td><td>1/4 SGAURD</td><td>BOF STR</td><td>BOF STR</td><td>1550</td><td></td></th<>	RUN TEE TO AXLE FLOAT	230 Bar	1/4 SGAURD	BOF STR	BOF STR	1550	
	AXLE FLOAT TO TANK	230 Bar	1/4 SGUARD	BOF STR	BOF SW90	1855	
170 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170% 170%		230 Bar	3/8	BOF SW90	BOF SW90	1920	45*
1 2010 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001 001	PUMP TO MOVEMENT MANIFOLD	230 Bar	1/2	BOF STR	BOF SW90	1900	
32010 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55% 000 55%	DRIVE MANIFOLD TO RETURN FILTER DRIVE MANIFOL DMFFI TO RH	230 Bar 230 Bar	3/4	BOF STR ROF STR	BOF SW90 BOF SW90	066	
338 br 338 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br 358 br<	DRIVE MANIFOLD MRFL TO BH	230 Bar	1/2	BOF STR	BOF SW90	006	
	DRIVE MANIFOLD MFFR TO BH	230 Bar	1/2	BOF STR	BOF SW90	1475	
100 000 SIR (0000	DRIVE MANIFOLD MRFR TO BH	230 Bar	1/2	BOF STR	BOF SW90	1650	
2006 100 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 <td></td> <td>230 Bar 230 Bar</td> <td>1/2</td> <td>BOF STR BOF STR</td> <td>BOF SW45 BOF SW90</td> <td>1550</td> <td></td>		230 Bar 230 Bar	1/2	BOF STR BOF STR	BOF SW45 BOF SW90	1550	
1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 <th< td=""><td>BH TO RL MOTOR</td><td>230 Bar</td><td>1/2</td><td>BOF STR</td><td>BOF STR</td><td>750</td><td></td></th<>	BH TO RL MOTOR	230 Bar	1/2	BOF STR	BOF STR	750	
R183 2005 mm 0.07 mm 0	DRIVE MANIFOLD MFRR TO BH	230 Bar	1/2	BOF STR	BOF SW90	1450	
TRIER 2008 34 005 50% 006 50% 006 50% 006 50% 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000	URIVE MANIFULU MIRKK TO BH BH TO RR MOTOR	230 Bar 230 Bar	<i>G(</i>) Z/L	BUF STR BOF STR	BOF SW90 ROF STR	1400	
RITION 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit 200 bit	MOVEMENT TO DRIVE MANIFOLD PRESS	230 Bar	1/2	BOF SW90	BOF SW45	260	180*
RB 1/2 Sound 200 Bits Rest 1/2 Sound 200 Bits Rest 200 Bits <threst< th=""> Rest 200 Bits Rest 200 Bits<</threst<>	MOVEMENT TO DRIVE MANIFOLD RETURN	230 Bar	3/4	BOF SW90	BOF SW45	690	
R 1/2 SUMU 1/	BH TO RHF MOTOR	230 Bar	1/2 SGUARD	BOF STR	BOF SW45	680	
R 208.ml 1.8.0.00 DOF S100 DOF S100 DOF S101 DOF S101 2.00.0ml 0.800 0.600 0.600 0.600 0.600 0.000 2.00.0ml 0.800 0.800 0.800 0.800 0.900 0.900 0.900 2.00.0ml 0.800 0.800 0.800 0.800 0.800 0.900 0.900 0.900 0.900 0.900 0.900 0.900 0.900 0.900 0.900 0.900 0.900 0.900 0.900 0.900 0.900 0.900	BH TO LHF MOTOR DEFILION EILTED TO TANK	230 Bar	1/2 SGUARD	BOF STR	BOF SW45	860	
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ILLUSTRATED PARTS LIST

GENERATOR FITTINGS ASSEMBLY

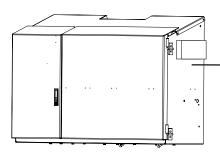
ITEM	PART	DESCRIPTION	QTY
1	513335-001	GENERATOR/PUMP	1
2	513335-002	PUMP ONLY, USED ON GENERATOR 513335-001 and 513335-000	1
3	515187-000	1/2" BSP M/F 90 deg bend fitting	1
4	057376-000	BSP self centering DBS	4
5	510688-000	1⁄2" BSP M/M adaptor	1
6	515183-000	1⁄2" X 3⁄4" BSP M/M St. Adaptor	1
7	515577-000	¾" BSP M/M/F Tee	1

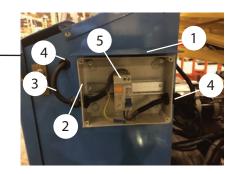


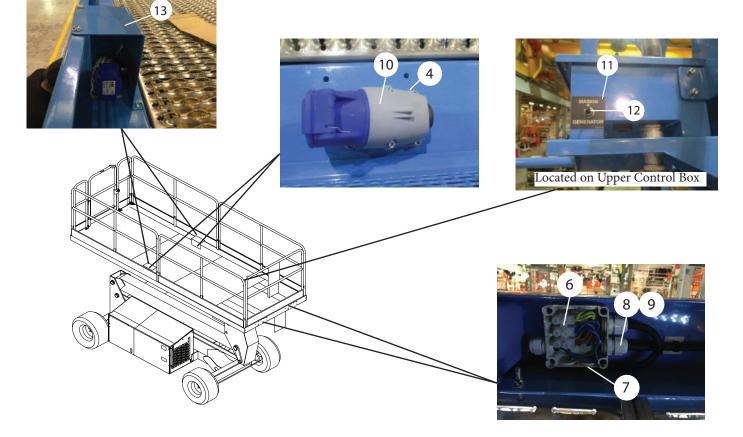
ENGINE D902

POWER TO PLATFORM ASSEMBLY

ITEM	PART	DESCRIPTION	QTY
1	515283-000	RCBO bracket	1
2	515233-000	RCBO Box	1
3	515302-000	3-Core Cable	20m
4	065004-008	PVC Grommet	5
5		Circuit Breaker	1
6	515132-000	Chop Block	2
7	515132-000	Junction Box	2
8	029925-000	CONNECTOR CABLE HEYC	5
9	029939-002	LOCKNUT 1/2 NPT, STL	5
10	515301-001	Power to Platform Socket	2
11	015-1459	Decal, Generator Switch	1
12	3020047	Toggle Switch	1
13	515346-000	Surf plug guard	2
13	0162366	Decal,Warning	2







ENGINE CABINET ASSEMBLY

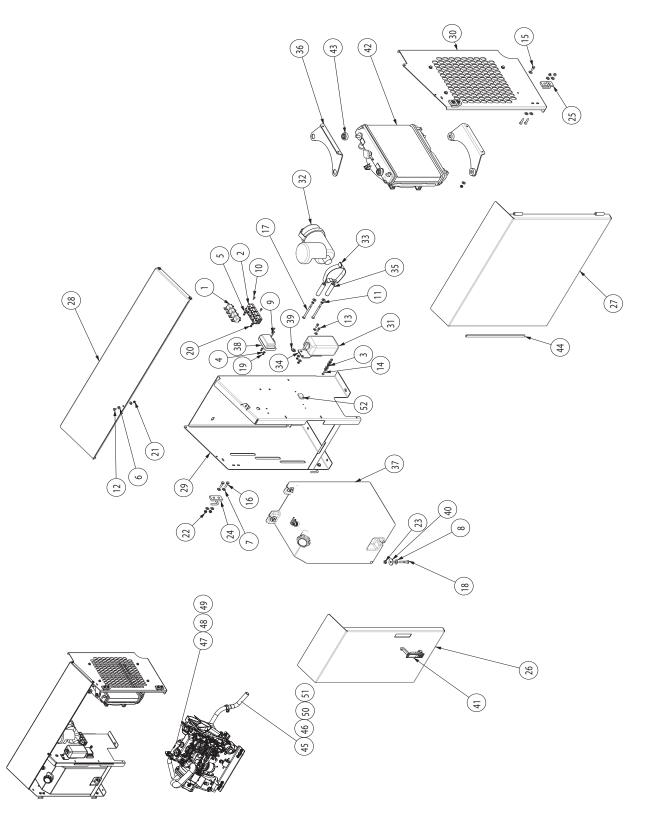
ITEM	PART	DESCRIPTION	QTY
1	1650-010	Relay	4
2	514612-000	Plugin relay base	4
3	3602-06	Metric hex nut	1
4	3603-04	Plain washer	2
5	3603-05	Plain washer	2
6	3603-06	Plain washer	18
7	3603-08	Plain washer	26
8	3603-10	Plain washer	3
9	3604-04035	Pan head screw M4 x 35	2
10	3604-05012	Pan head screw M5 x 12	2
11	3605-08	Spring washer	2
12	3610-06016	Metric bolt	5
13	3610-06020	Metric bolt	2
14	3610-06025	Metric bolt	1
15	3610-08020	Metric bolt	4
16	3610-08030	Metric bolt	8
17	3610-08100	Metric bolt	2
18	3610-10050	Metric bolt	3
19	3611-04	Metric nyloc nut	2
20	3611-05	Metric nyloc nut	2
21	3611-06	Metric nyloc nut	8
22	3611-08	Metric nyloc nut	12
23	3611-10	Metric nyloc nut	3
24	13869-01	LH hinge	2

* Option Parts

Not illustrated

ITEM	PART	DESCRIPTION	QTY
25	13869-02	RH hinge	2
26	11679	LH door weld small	1
27	11680	RH door weld large	1
*28	515273-000	Top plate engine + control cabinets	1
29	12638	Engine cabinet - Tank side	1
30	12938-1	Cabinet end - radiator vent	1
31	13086-03	Radiator overflow bot- tle	1
*32	515312-000	Air filter assembly	1
	515312-001	Outer replacement filter	1
	515312-001	Internal replacement filter	1
33	13086-05	Air filter bracket	1
34	13086-06	Overflow attachment bracket	1
35	13098	Air filter support	2
36	13099-1	Radiator mount - SRxx70 D902	2
37	13106-2A	Fuel tank assembly - SR	1
38	13806	Fuse block - blade x 6	1
39	65004-008	Rubber Grommet	1
40	5560179	Flat washer - special	3
41	8342416	Latch - Adjustable trig- ger	1
42	***	Radiator	1
43	***	Isolator mount - Kubota	4
44	PCA015	Rubber channel sec- tion	1
*45	515261-000	Diesel Scrubber	1
*46	13093-10	Tail Pipe	1
*47	515259-000	Block Heater	1
*48	515310-000	Cable,Heater inlet	1
*49	515311-000	Cable,Power Supply, Engine Heater	1
*50	515260-000	Spark Arrestor	1
*51	515304-000	Spark Arrestor BKT	1
*52	512314-000	Relay	1
#53	509740-001	FUSE,BLADE TYPE 15 AMP	1
#54	509740-002	FUSE,BLADE TYPE 10 AMP	1
#55	509740-003	FUSE, BLADE TYPE 5 AMP	1

ENGINE CABINET ASSEMBLY



CONTROL MODULE ASSEMBLY

ITEM	PART	DESCRIPTION	QTY
1	302-0049	Switch, battery disconnect	1
	514487-000	LCB CE	1
2	514487-001	LCB ANSI	1
3	510505-000	Cover, hydraulic hoses	1
5	510588-005	M5, plain washer	6
6	510588-006	M6, plain washer	8
7	510588-008	M8, plain washer	10
8	510588-010	M10, plain washer	3
9	510593-012	Pan head screw, M5 x 12 mm	2
10	13-2367	Manifold tank line drain	1
11	510567-025	CSK socket head screw, M6 x 25 mm	1
12	058490-025	Bolt, M5 x 25 mm	4
13	058491-016	Bolt, M6 x 16 mm	5
14	058491-020	Bolt, M6 x 20 mm	2
16	510477-000	Stand, manifold mounting	8
17	058492-025	Bolt, M8 x 25 mm	8
18	056060-050	Bolt, M10 x 50 mm	3
19	PCA015	Rubber channel section	1
20	056066-005	Nut, M5 nylock	6
21	056066-006	Nut, M6 nylock	8
22	056066-008	Nut, M8 nylock	8
23	056064-010	Nut, M10 nylock	3
24	3618-26	Hose clamp, 26 - 28 mm	1
25	3618-32	Hose clamp, 34 - 37 mm	1

ITEM	PART	DESCRIPTION	QTY
*26	515272-000	Top plate control cabinet	1
27	12716-14	Cabinet support	1
28	8342416	Latch, adjustable trigger	1
29	3040269	Rubber boot cable end	4
30	300840	Lock out lever assembly	1
31	502197-000	M8 x 300 hook bolt	2
32	064040-000	Angle battery hold down	1
33	11470	Left hand hinge	2
34	11470-1	Right hand hinge	2
35	11558	Hydraulic oil tank assembly	1
36	062299-002	Battery, 12 V	1
37	11679	Left hand door weld, small	1
38	11680	Right hand door weld, large	1
40	514721-000	Manifold drive control	1
41	514720-000	Manifold movement control	1
*42	515284-000	Control cabinet weld	1
43	5560179	Flat washer, special	3
44	058492-020	Bolt, M8 x 20 mm	2
45	056021-008	M8, spring washer	2
	508078-001	Filter assembly	1
46	508078-000	Filter	1
	508078-002	Filter head	1
47	503789-002	Emergency down cable	1

Table 6-11: SL26/30SL

* Tunnel Option Parts

ILLUSTRATED PARTS LIST

CONTROL MODULE ASSEMBLY

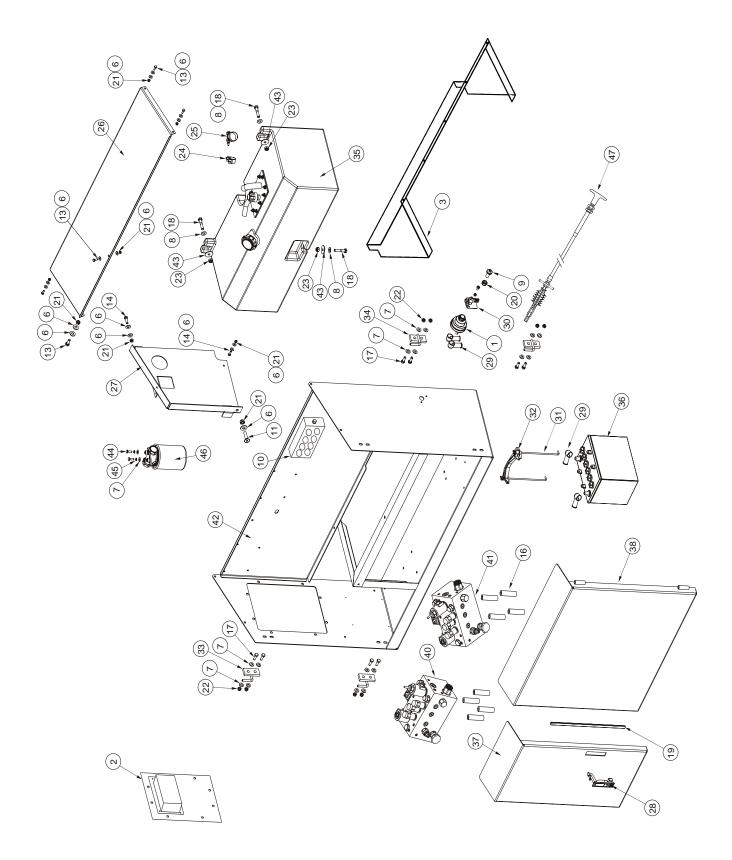
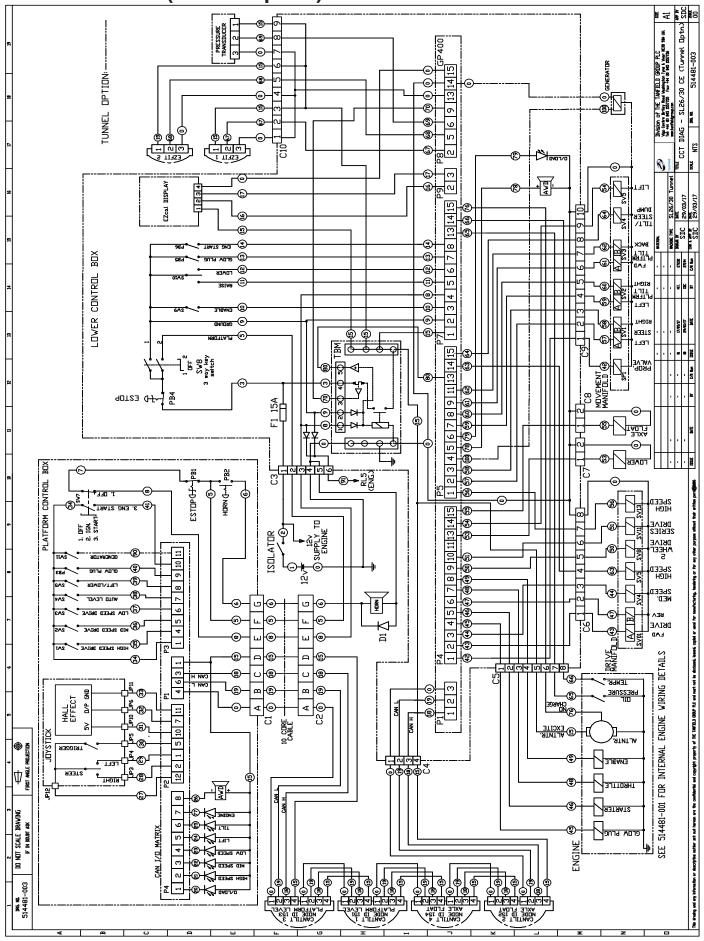
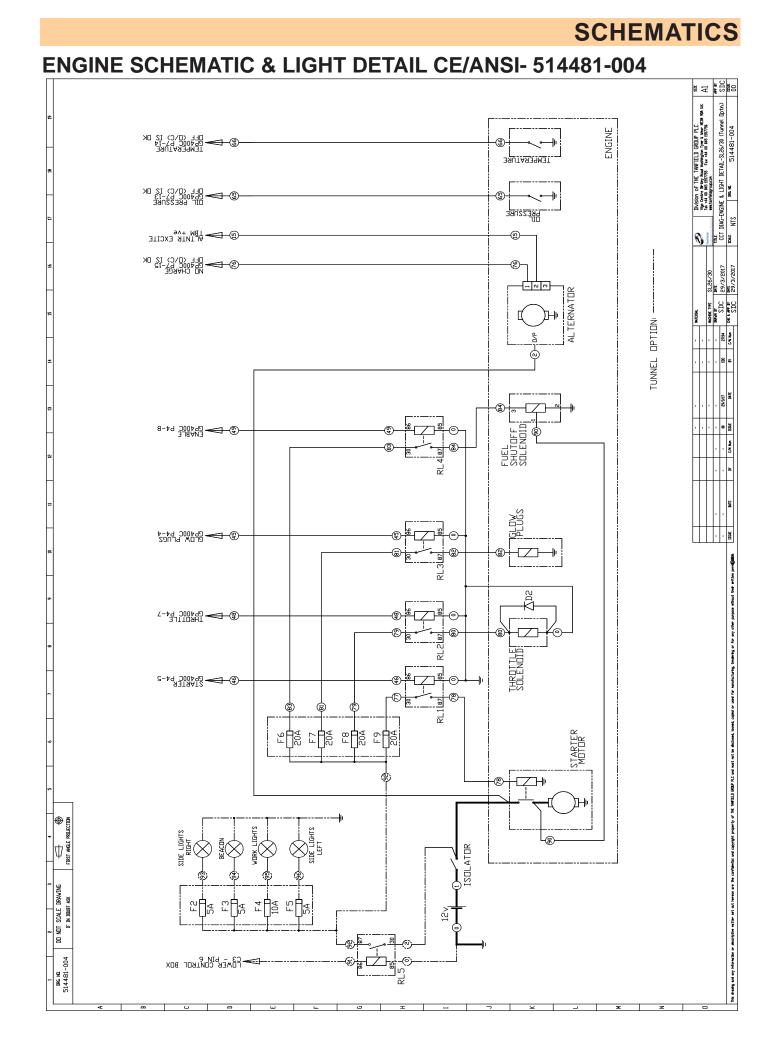


Figure 9: Control module assembly of SL26/30SL

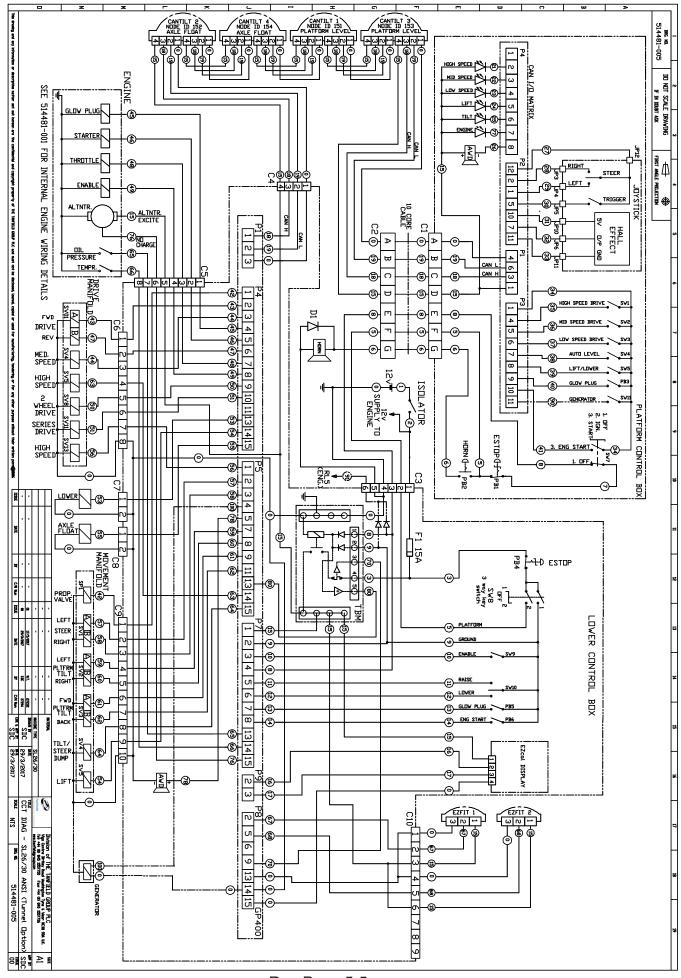
SCHEMATICS

SCHEMATIC CE(Tunnel Option) - 514481-003



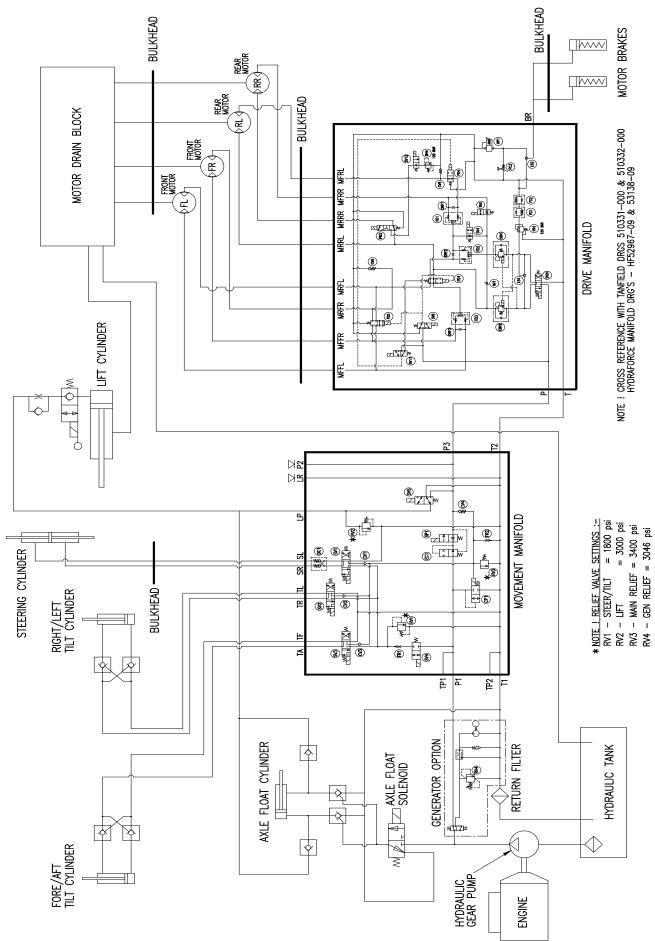


SCHEMATICS SCHEMATIC ANSI(Tunnel Option) - 514481-005



SCHEMATICS

HYDRAULIC HOSE SCHEMATIC



NOTES

ILLUSTRATED PARTS LIST

HYDRAULIC HOSE ASSEMBLY - FITTINGS

PART	DESCRIPTION	QTY
	Bonded seal	
058298-000	1/8 bonded seal, self center- ing	2
057124-000	1/4 bonded seal, self center- ing	35
057125-000	3/8 bonded seal, self center- ing	17
057376-000	1/2 bonded seal, self center- ing	16
057352-000	3/4 bonded seal, self center- ing	8
	Adaptors and fittings	
057358-000	Adapter male - male, 1/4 BSP	17
057122-000	Adapter male - male, 3/8 BSP	1
057377-000	Adapter male - male, 1/2 BSP	14
058350-000	Adapter male - male, 3/4 BSP	3
509543-000	Adapter male - male, 1/8 BSP - 1/4 BSP	2
057121-000	Adapter male - male, 1/4 BSP - 3/8 BSP	7
057123-000	Adapter male - male, 3/8 BSP - 1/2 BSP	1
503169-000	Adapter male - male, 1/2 BSP - 3/4 BSP	4

DADT	DESCRIPTION	OTV
PART 510692-000	Adapter male - male, 3/4 BSP - 1 BSP	QTY 1
058707-000	Plug, 3/8 BSP	3
057352-000	Plug, 1/2 BSP	2
510685-000	Plug, 1/4 BSP	4
508307-000	Banjo bolt, 1/4 BSP	5
510686-000	Test point - minimess, 1/4 BSP	2
510687-000	Bulkhead adapter M-M, 1/4 BSP	12
510688-000	Bulkhead adapter M-M, 1/2 BSP	8
510673-000	45 degrees positional elbow M-M, 1/2 BSP	4
510689-000	90 degrees block elbow M-F, 1 BSP	1
510336-000	2.0 mm 50 bar screw in free flow - flow restrictor, 3/8 BSP	1
510690-000	Run TEE 1/4, 1/4 BSP female, BSP male	1
510691-000	Run TEE 1/2, 1/2 BSP female, BSP male	1
510823-000	Run TEE 3/8 male, 3/8 BSP fe- male, 1/4 BSP male branch	1
510824-000	Run TEE 3/4 male, 3/4 BSP fe- male, 1/4 BSP male branch	1

ILLUSTRATED PARTS LIST

HYDRAULIC HOSE ASSEMBLY

ITEM	PART	DESCRIPTION	QTY	ITEM	PART	DESCRIPTION	QTY
1	510380-000	LHF motor drain to BH	1	22	510401-000	Movement manifold to lift	1
2	510381-000	LHF BH to return manifold	1			cylinder	Ļ
3	510382-000	RHF motor drain to BH	1	*23	515281-000	Pump to movement mani- fold with spiral guard	1
4	510383-000	RHF BH to return manifold	1	23	510405-000	Pump to movement mani-	1
5	510384-000	LHR motor drain to BH	1	20	010400-000	fold	'
6	510385-000	LHR BH to return manifold	1	24	510403-000	Drive manifold to return	1
7	510386-000	RHR motor drain to BH	1			filter	ļ
8	510387-000	RHR BH to return manifold	1	25	510404-000	Drive manifold MFFL to BH	1
9	510388-000	Lift cylinder to return manifold	1	26	510405-000	Drive manifold MRFL to	1
10	510389-000	Brake port to LHR BH TEE	1	07	E10406.000	BH Duive menifold MEED to	
11	510390-000	LHR BH to LH brake	1	27	510406-000	Drive manifold MFFR to BH	1
12 13	510391-000 510392-000	LHR BH TEE to RHR BH RHR BH to RH brake	1	28	510407-000	Drive manifold MRFR to BH	1
			·	29	510408-000	Drive manifold MFRL to BH	1
14	510393-000	Movement manifold to tilt cylinder	4	30	510409-000	Drive manifold MRRL to BH	1
15	510394-000	Steer cylinder to LHF BH	1	31	510410-000	BH to RL motor	2
16	510395-000	LHF BH to movement manifold (SL)	1	32	510411-000	Drive manifold MFRR to BH	1
17	510396-000	Steer cylinder to RHF BH	1	33	510412-000	Drive manifold MRRR to	1
18	510397-000	RHF BH to movement manifold (SR)	1	34	510413-000	BH BH to RR motor	2
19	510398-000	Run TEE to axle float	1			Diricitation	
20	510399-000	Axle float to tank	1				ļ
21	510400-000	Return manifold to tank	1	35	510414-000	Movement to drive mani- fold press	1
' Tunn	el Option Pa	arts		36	510415-000	Movement to drive mani- fold return	1
				37	510416-000	BH to RHF motor	2
				38	510417-000	BH to LHF motor	2
				39	510418-000	Return filter to tank	1
				40	510419-000	Tank to pump suction	1
				41	510826-000	Lift TEE to axle float cyl- inder	2
				*42	515186-000	Pressure port P1 - to Ht- drostatic Pump	1
				*42	515277-000	Pressure port P1 - to Ht- drostatic Pump with spiral guard	1
				*43	515185-000	Tank port Generator to Tank port manifold	1
							1

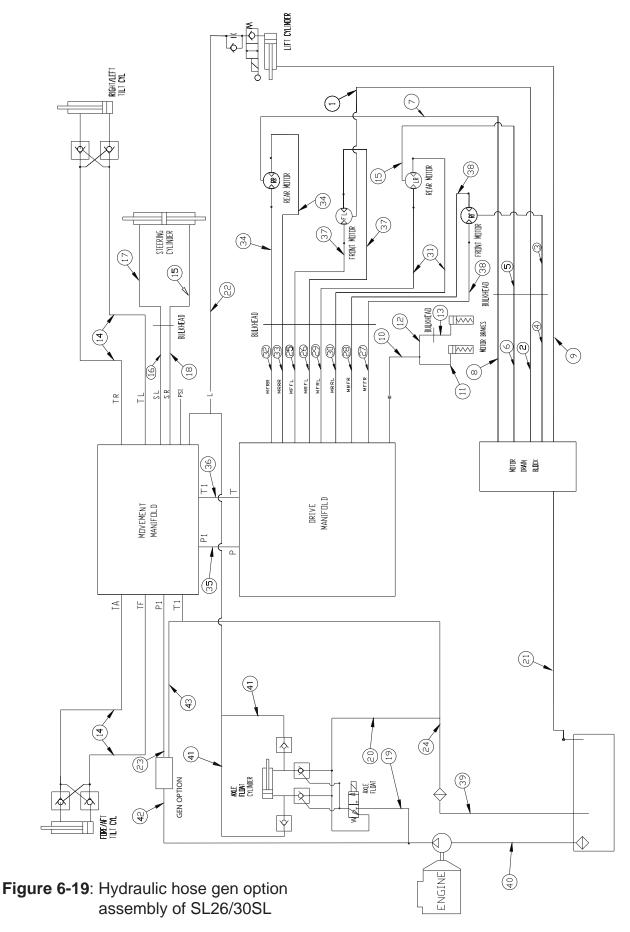
*43

515278-000

Tank port Generator to

Tank port manifold with Spiral Guard 1

HYDRAULIC HOSE ASSEMBLY





Local Distributor / Lokaler Vertiebshändler / Distributeur local El Distribuidor local / Il Distributore locale

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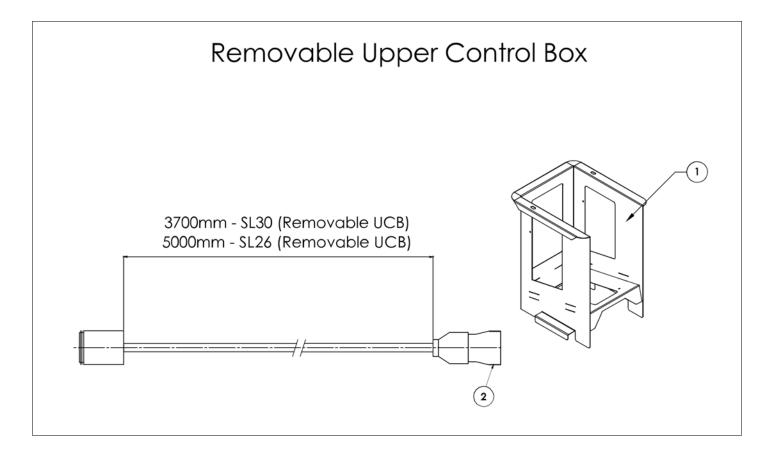
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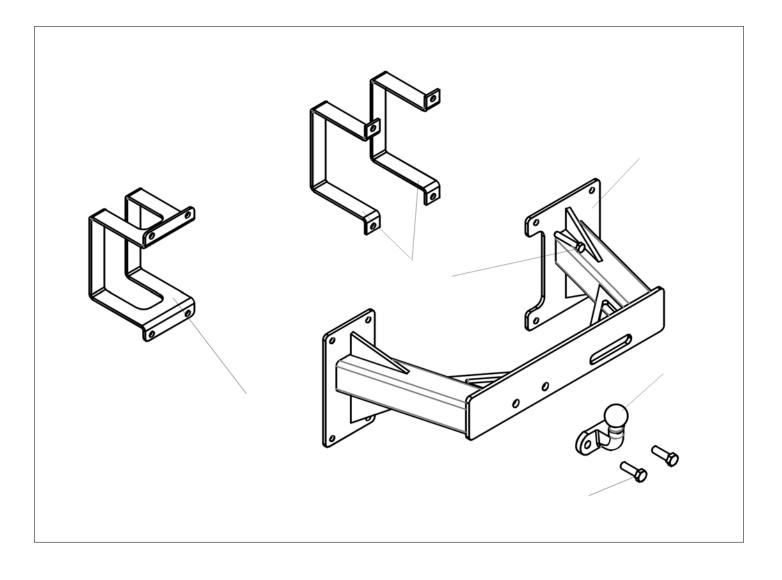


OPTIONS



アイテム	部品番号	名前	数量	UOM
1	515443 000	UPPER CONTROL BOX MOUNT SL26 (REPLACES 514938 000)	1	EA
2	515442 000	UPPER CONTROL BOX MOUNT SL30 (REPLACES 514521 000)	1	EA
3	514608 002	PLATFORM EXTENSION CABLE 5M SL26 (REPLACES 514608 000)	1	EA
4	514608 003	PLATFORM EXTENSION CABLE 3.7M SL30 (REPLACES 514608 001)	1	EA
5	302544	Pin & Lock	4	EA

OPTIONS



アイテム	部品番号	名前	数量	UOM
1	515480 000	Tow Hitch Weldment	1	EA
2	515481 000	Towball	1	EA
3	515480 008	Clamp Bracket	2	EA
4	515480 009	Clamp Bracket	1	EA
7	057052 070	Hex Hd Bolt M12 x 70 Dacromet	8	EA
8	514163 012	Nyloc Nut M12 Dacromet	8	EA
9	505087 012	Hardened washer, M12	8	EA
10	058480 050	Hex Hd Bolt M16 x 50 Dacromet	2	EA
11	500281 000	WSHR M16 HARDEND STL DIN 6016 PLTD	2	EA
12	514163 016	Nyloc Nut M16 Dacromet	2	EA

OPTIONS



アイテム	部品番号	名前	数量	UOM
Not Shown	515257 005	BLOCK HEATER KIT CE	1	EA
1	515311 000	CABLE,MINIPLUG POWER SUPPLY CE	1	EA
2	515310 000	CABLE, MINIPLUG INLET CABLE CE	1	EA
3	515259 000	BLOCK HEATER FOR SUPER MINI CE	1	EA
Not Shown	515912 000 850	BLOCK HEATER KIT ANSI	1	EA
4	515910 000	DEFA mini plug power supply cable 120v/60Hz ANSI	1	EA
5	515909 000	DEFA mini plug inlet cable 120v/60Hz ANSI	1	EA
6	515911 000	DEFA 120v D902 block heater ANSI	1	EA

А

BLOCKHEATER
CABLE HARNESS SCHEMATIC2-21
CHASSIS ASSY SL26/30SL 2-6
CONTROL MODULE ASSEMBLY 2-9
DECAL KIT SL26SL - ENGLISH 2-29
DECAL KIT SL30SL - ENGLISH 2-30
ELECTRICAL ASSEMBLY 2-19
ELEVATING ASSEMBLY SL26SL 2-16
ELEVATING ASSEMBLY SL30SL 2-17
ENGINE ASSEMBLY - KUBOTA D902 2-10
ENGINE CABINET ASSEMBLY 2-11
FUEL TANK ASSEMBLY - DIESEL2-12
GENERAL ASSEMBLY SL26SL 2-2
GENERAL ASSEMBLY SL30SL 2-1
HYDRAULIC CYLINDER ASSEMBLY - MAIN
LIFT
HYDRAULIC HOSE ASSEMBLY . 2-3, 2-4, 2-5
HYDRAULIC OIL TANK ASSEMBLY 2-15
HYDRAULIC VALVE BLOCK DRIVE 2-14
HYDRAULIC VALVE BLOCK MOVEMENT
2-13
INTRODUCTION 1-1
LOWER CONTROL PANEL ASSEMBLY -
ANSI
LOWER CONTROL PANEL ASSEMBLY - CE
2-7
OPERATIONS & SPECIFICATIONS1-2
PLATFORM ASSEMBLY - SL30SL 2-22
PLATFORM ASSEMBLY - SLIDE OUT
SECTION
PLATFORM ASSEMBLY SL26SL2-23
Removable Upper Control Box SL 5-2
SCHEMATICS 4-1

SERVICE & REPAIR
STEER, AXLE FLOAT & TILT CYLINDER2-8
TOW HITCH
TROUBLESHOOTING 1-3
TUNNEL OPTION5-1
UPPER CONTROL PANEL ASSEMBLY - ANSI . 2-26
UPPER CONTROL PANEL ASSEMBLY - CE 2-25
UPPER CONTROL PANEL ASSEMBLY SL26 -
ADDITIONS
UPPER CONTROL PANEL ASSEMBLY SL30-
ADDITIONS

В	026554-002
***	027898-001
003570-001 2-24	027931-057
003570-005 2-22, 2-23	056021-008
010076-000 2-22, 2-23	056060-050 2-9, 2-15
010076-901 2-29, 2-30	056064-010 2-9, 2-15
010148-003 2-11	056064-012
011238-005	056066-004 2-7, 2-20, 2-25, 2-26
011238-008	056066-005
011240-002 2-24	056066-006 2-9, 2-15
011240-004 2-24	056066-008
011240-006 2-24	056069-004 2-7, 2-20, 2-25, 2-26
011248-004 2-24	056069-005
011248-006 2-16, 2-17, 2-24	056069-006
011248-016 2-16, 2-16, 2-17, 2-17	056069-010
011252-006 2-24	056069-012
011252-014 2-24	057052-050
011252-016 2-24	057052-070
011254-008 2-24	057052-130
011254-010 2-24	057430-002
011254-018 2-24	058480-050
011254-020 2-24	058490-025
011254-024 2-16, 2-17	058491-016
011254-032 2-24	058491-020
011256-014	058492-020
011257-014	058492-025 2-9, 2-10
011257-024	058500-025 2-25, 2-26
011754-012 2-6, 2-6	058501-016 2-25, 2-26
011782-001	058501-025 2-25, 2-26
013336-001 2-16, 2-17	058531-000
014918-048 2-16, 2-17	058819-000
014918-056 2-16, 2-17	062299-002
026553-002 2-24	062642-001
026553-008 2-24	062642-030

062642-0322-6	064298-005
062649-010 2-16, 2-17, 2-18	064320-001
062649-020 2-16, 2-17	064331-001
063727-000 2-24	064336-000
063904-010 2-18	064339-001
063904-101 2-16, 2-17, 2-18	064343-001
063905-010	064345-010
063905-101	064345-100
063927-001	064346-010
063990-003	064346-100
064040-000	064347-000
064046-000 2-22, 2-23	064349-000
064060-003 2-16	064350-000
064070-002 2-16, 2-17	064354-000
064078-002	064356-000
064084-001	064374-000
064087-000	064383-000
064089-000 2-16, 2-17	064383-001
064090-000	064383-002
064093-000 2-16, 2-17	064384-000
064094-000	064425-000
064095-000 2-16, 2-17	064447-000
064100-011	064448-000
064111-001 2-16, 2-23	064450-000
064111-002 2-17, 2-22	064451-000
064233-000	064521-000
064234-000	064530-000
064235-000 2-24	064531-001
064240-001 2-24	064536-000
064247-000 2-24	064538-000
064249-000 2-24	064540-011
064256-000	064542-000
064267-000	064617-002
064294-004	064688-001
20.22.2.000.000.000.000.000.000.000.000	······································

064688-002 2-22, 2-23, 2-24	067822-001
064695-000 2-23	067883-000 2-22, 2-23
064696-000 2-22	068635-001 2-29, 2-30
064697-000 2-23	069129-000
064698-000 2-22	069129-001
064700-000 2-22, 2-23	069129-002
064702-001 2-22, 2-23	069129-003
064702-002 2-22, 2-23	069129-010
064761-000 2-24	069129-011
064763-000	100338-013 2-7, 2-20, 2-25, 2-26
064769-001 2-24	101210-000
064769-002 2-24	101251-001
064773-000	11430-1
064774-000	11430-5
064775-000	11470
064776-000	11470-1
064778-000	11487
064785-000	11558
064795-000	11558-1
064811-000	11558-2
064812-000	11558-8
066526-004	11679
066550-005	11680
066550-006	12638
066551-002	12716-13 2-9, 2-11
066551-003 2-24, 2-29, 2-30	12938-1
066551-225	12944
066554-000	13-2367
066555-000	13023
066556-900	13086-03
066563-000	13086-04
067695-000 2-22, 2-23, 2-24	13086-05
067712-000	13086-06
067764-001	13095

13098
13099-1
13106-1
13106-2A 2-11
13106-2a 2-12
13108-04
13109 2-12
13164
13485-01 2-7, 2-20
13485-03 2-7, 2-20
13553-40
13806
13869-01
13869-02
13888 2-25, 2-26
13904 2-10
13905 2-10
13986
13987
14002 2-27, 2-28
14004 2-10, 2-10
14020
15-0489
1650-010
26500012-10
26900042-10
300840 2-9
302-0049
302544 2-27, 2-28, 5-2
302950 2-29, 2-30
3030169 2-25, 2-26
304-0174
3040269
3049862 2-25, 2-26

3087803	2-7, 2-20
3602-06	
3602-08	2-10
3603-04	
3603-05	
3603-06	2-10, 2-11
3603-08	2-10, 2-11
3603-10	2-10, 2-11
3604-04035	2-11
3604-05012	2-11
3605-08	2-10, 2-11
3610-06016	2-11
3610-06020	2-10, 2-11
3610-06025	2-11
3610-08020	2-10, 2-11
3610-08030	2-10, 2-11
3610-08040	2-10
3610-08100	2-11
3610-10025	2-10
3610-10050	2-11
3611-04	2-11
3611-05	2-11
3611-06	2-10, 2-11
3611-08	2-10, 2-11
3611-10	2-10, 2-11
3617-10020	2-10
3617-10025	2-10
3618-11	2-12, 2-15
3618-26	
3618-32	2-9, 2-15
446086	
452756	
500281-000	
501251-016	2-7, 2-20

502197-000	509462-000
502588-000 2-7, 2-20, 2-25, 2-26	509463-000
503789-002	509523-000
503995-0002-6	509535-000
504559-000 2-16, 2-17	509740-000 2-11
504560-000 2-16, 2-17	509740-002 2-7, 2-20
505046-000	509741-000
505082-014 2-7, 2-20	509743-000 2-7, 2-20
505087-0122-22, 2-23, 5-3	509744-000
505201-000	509750-000
505202-000	509755-000 2-7, 2-20, 2-25, 2-26
505500-000	510154-000
505501-000 2-1, 2-2, 2-6	510155-000
505502-000	510156-000
505503-000 2-2, 2-22	510157-000
505504-000 2-1, 2-2	510280-000
505505-000	510333-000
505515-000 2-1, 2-2	510379-000
505564-000	510380-000 2-3, 2-4
505573-001	510381-000 2-3, 2-4
505600-000	510382-000 2-3, 2-4
505602-000 2-1, 2-16	510383-000 2-3, 2-4
505603-000 2-1, 2-23	510384-000 2-3, 2-4
508020-000	510385-000 2-3, 2-4
508021-000	510386-000 2-3, 2-4
508047-000	510387-000 2-3, 2-4
508047-001	510388-000 2-3, 2-4, 2-5
508078-000	510389-000 2-3, 2-4
508078-001	510390-000
508078-002	510391-000
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508494-000	510393-000 2-3, 2-4, 2-5
508875-000	510394-000
509445-000	510395-000

510396-000 2-3, 2-4	510524-000
510397-000 2-3, 2-4	510542-000 2-7, 2-20, 2-25, 2-26
510398-000 2-3, 2-4, 2-5	510567-025
510399-000 2-3, 2-4, 2-5	510588-006
510400-000 2-3, 2-4, 2-5	510588-008
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510402-000 2-3, 2-4, 2-5	510593-012
510403-000 2-3, 2-4	510677-000
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510414-000 2-3, 2-4, 2-5	510751-000
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510416-000 2-3, 2-4	510753-000
510417-000 2-3, 2-4	510754-000
510418-000 2-3, 2-4, 2-5	510755-000
510419-000 2-3, 2-4, 2-5	510756-000
510460-000 2-29, 2-30	510757-000
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510472-000 2-25, 2-26	510759-000
510477-000	510760-000
510497-000	510762-000
510501-000	510763-000
510502-000 2-22, 2-23	510764-000
510505-000	510765-000
510521-000 2-7, 2-20, 2-25, 2-26	510766-000
510522-000 2-7, 2-20	510767-000

510768-000	512969-000
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510773-000	513237-000
510774-000	513247-000
510775-000	513255-000
510778-000	513278-000
510779-000	513285-000
510780-000 2-14	513288-000 2-16
510781-000 2-14	513289-000 2-16
510782-000 2-14	513347-000
510783-000 2-14	513392-000
510784-000 2-14	514132-000 2-7, 2-20, 2-25, 2-26
510785-000 2-14	514163-012
510786-000 2-14	514163-016
510787-000 2-29, 2-30	514360-000 2-29, 2-30
510826-000 2-3, 2-4, 2-5	514482-001
510876-000 2-30	514482-002
510885-000 2-29, 2-30	514482-003
511066-000 2-29, 2-30	514482-004
511087-000	514483-000
511088-000 2-30	514483-001
511104-000 2-29, 2-30	514484-000 2-25, 2-26
512309-001 2-29	514485-000 2-25, 2-26
512318-000	514486-000 2-25, 2-26
512347-000 2-11	514487-000 2-7, 2-9
512366-000 2-7, 2-20	514487-001 2-9, 2-20
512543-000 2-7, 2-20	514488-000 2-7, 2-20
512817-000 2-7, 2-20	514489-000 2-7, 2-20
512934-0002-7, 2-25, 2-26	514490-000 2-25, 2-26
512935-000 2-25, 2-26	514491-000 2-25, 2-26
512968-000	514496-000 2-7, 2-20

514502-000	515321-000
514521-000	515346-000
514521-001	515347-000
514521-002	515348-000
514521-003	515377-000
514604-000 2-25, 2-26	515377-001
514605-000 2-25, 2-26	515419-000
514608-002	515421-000
514608-003	515422-000
514612-000 2-11	515423-000
514622-000 2-7, 2-20	515424-000
514624-000 2-7, 2-20	515425-000
514626-000 2-7, 2-20	515426-000
514627-000 2-7, 2-20	515427-000
514629-000 2-7, 2-20	515428-000
514720-000 2-9, 2-13	515429-000
514721-000 2-9, 2-14	515430-000
514722-000	515431-000
514743-000 2-22, 2-23	515433-000
514868-000 2-13, 2-14	515434-000
514869-000 2-13, 2-14	515435-000
514878-000	515436-000
514938-000	515442-000
514938-001	515443-000
514942-000	515453-000
514943-000 2-4, 2-5	515480-000
514945-000 2-25, 2-26	515480-008
515257-005	515480-009
515259-000	515481-000
515285-000	515531-000
515293-000	515549-000
515310-000	515555-000
515311-000	515611-000
515320-000	515659-000

515780-000
515824-000
515825-000
515826-000
515827-000
515909-000
515910-000
515911-000
515912-000-850 5-4
515952-000 2-10
516251-000
516251-001
5560179 2-9, 2-11, 2-15
5563048
60017-007
60017-010
60021-008
60030-0492-10
605246
605256 2-12, 2-15
65004-008
76302082-10
76311922-11
8342416 2-9, 2-11
967309
98300-9 2-6
Contact product support 2-18, 2-18, 2-18, 2-18,
2-18, 2-18, 2-18, 2-18
PCA015 2-9, 2-11
SL26/30SL - Kubota D902 2-11