

Stannah Stairiser SX Maintenance Schedule

Issue 12.07.10

The intention of this schedule is to provide information for the correct servicing procedure of the Stannah Stairiser to ensure that the product runs safely, smoothly and efficiently. Owing to our policy of continual product development, we reserve the right to alter or amend any of the contents at any time without prior notice.

Stannah Stairiser maintenance schedule

The following schedule, details the recommended periodic maintenance programme of the Stannah stairiser. This schedule has been designed for use by your Stannah approved engineers/technicians who have completed the recognised product training course.

Safety

The stairiser must be isolated from the mains electricity supply before the removal of any covers prior to commencing the maintenance programme.

Lubrication

The maintenance schedule indicates where lubrication must be applied to maintain the performance of the Stairiser. Stannah Lifts recommend the following products that are available from our spares department.

Product	Part Number
Superlube Grease	630087
Superlube Spray	630083

Cleaning

It is recommend that an anti-static foam cleaner (Part Number 630017) be used for cleaning the external surfaces only of the Stairiser. This must not be used on the internally lubricated components and assemblies.

Components

Any components found to be damaged, leaking, unduly worn, or outside of specification during routine servicing or maintenance must be replaced with new parts.

All replacement components can be purchased from Stannah Lifts Parts Department. Refer to illustrated assembly drawings included within this manual.

Torque settings

All fixings are tightened at the factory during assembly. Any fixing removed should be re-tightened to the same torque setting. The table below gives specific settings for three assemblies which must be adhered to.

Fixing Assembly	Part Number	Torque setting value
Motor & gearbox assembly-	915069	36Nm
Bolted to Carriage frame welded assembly	4000440	
Rear skate assembly-	4000404	36Nm
Bolted to Carriage frame welded assembly	4000440	
Rack-	4000058	34Nm
Bolted to extruded aluminium rail	4000000	

Warning

Failure to re-tighten the above fixings to the correct torque could compromise the safety of the Stairiser user.

Key to corrective action:

* Check/adjust/tighten if required

R Replace components, if worn, damaged, leaking or is outside of specification.

L Lubricate or grease as required using recommended products (see page 1)

CL Clean using recommended product (see page 1)

1. Rail Maintenance

Item	Check	Work Method	Nominal Settings/values	Corrective Action
1	Rail supports & rail	Check rail is secured to wall or supports & supports are secured to floor/staircase		*
2	Rack	<ul style="list-style-type: none"> Check rack is secured to aluminium rail with all fixings in place. Inspect for wear/damage & lubricate with superlube grease over entire length. 	See torque setting values.	* R,L
3	Floor Zone/Ultimate limit ramps	Check ramps are tightly secured to lower rail and are in correct relative positions for operation of switches.	Adjust and tighten if required	*
4	Trailing cables and energy chain.	Check for cuts/abrasions, kinked or twisted cables, and free movement of energy chain.		R
5	Debri and dirt	Check within the rail for any loose debri and dust and dirt build-up.		CL
6	Rail cover and end caps	Inspect for damage, and check that cover and end caps are secure.		*
7	Overall Condition	Inspect and report the overall condition of the rail and attached components		* CL

2. Platform Maintenance

Item	Check	Work Method	Nominal Settings/values	Corrective Action
1	Platform end ramps and underpan safety edge switches	Test for correct operation of safety switches and that the Stairiser cannot operate in the appropriate direction of travel when safety switch is operated.		*
2	Ramp operation	Check the hinging movement of the ramps is free moving and that the safety edge feature works correctly, in both directions		* L
3	Push/pull cable connection	Check the push/pull connection to the end ramps is secure.	Adjust and tighten if required	* L
4	Connecting cable between platform & carriage	Check for cuts/abrasions, kinked or twisted cable.		* R
5	Debri and dirt	Check within the underpan for any loose debri and dust and dirt build-up.		CL
6	Overall Condition	Check and report the overall condition of the platform.		* CL

Key to corrective action:

- * Check/adjust/tighten if required
- R** Replace components, if worn, damaged, leaking or is outside of specification.
- L** Lubricate or grease as required using recommended products (see page 1)
- CL** Clean using recommended product (see page 1)

3. Main Carriage assembly

Item	Check	Work Method	Nominal Setings/values	Corrective Action
1	Motor/Gearbox assembly	Inspect for oil leaks and check for noise or vibration during operation.	Motor to carriage fixing bolts. See torque settings	Remove carriage from rail. R , or *
2	Motor Brake Unit	Loaded with the operator, measure the maximum brake slide in both directions upon application of brake.	Maximum brake slide is 20.0mm	* R
3	Handwinding	Check handwinding boss on top of motor is secured, and check operation of handwinding function.		*
4	Platform knuckle and pivot pin joints.	Check operation of knuckle joint and lubricate platform pivot pin joint with superlube grease. Check manual release operation of platform.		R L
5	Actuators	Check actuators are secure and listen for noise or vibration during operation.		* R
6	Gas Strut	Check for gas leaks and that fixings are secure		* R
7	Barrier arms	Check the operation and alignment barrier arms lubricate shaft and associated moving parts, and adjust limit switches and safety switch if required. Check manual release operation & lubricate between plates, & barrier arm shaft.		* R & L
8	Carriage Fixings	Check all fixings are secure particularly main securing bolts.	Back Carriage to main carriage frame. See torque settings	*
9	Switches	Check operation of platform fold/unfold limit switches.		*
10	Wiring looms	Inspect wiring and connections for signs of wear/damage.		R
11	Debris and dirt	Check within the carriage for any loose debri and dust and dirt build-up.		CL
12	Overall Condition	Check and report the overall condition of the carriage.		* CL

Key to corrective action:

* Check/adjust/tighten if required

R Replace components, if worn, damaged, leaking or is outside of specification.

L Lubricate or grease as required using recommended products (see page 1)

CL Clean using recommended product (see page 1)

5. Electrical Maintenance Testing

Item	Check	Work Method	Nominal Settings/values	Corrective Action
1	Mains Electricity supply	Check neon indicator on the PSU PCB. Check correct fuse is fitted	FS1 5A	* R
2	Control Voltage	Check control voltage on the 7 way trailer connector between PL7-26 & 27	Specification 24V dc min. - 30V dc max.	*
3	Running Current	Using an AC clamp meter around the 240V ac live input to the unit, measure the AC current drawn during an up and down journey with no load.	Up Specification 0.5A min.- 1A max. Down specification 1A min.-2A max.	*
4	Earth Continuity	Measure the earth continuity from the supply to the metalwork of the unit and the rail	Specification 0.5 ohms max.	*
5	Landing Controls (Wireless control)	Check the operation of the landing controls. Always replace 9V battery in landing controls on every service visit.		* R
6	Carriage Controls	Check the operation of the carriage controls including the stop switch and the alarm button		* R
7	Trailer Cables	Check the condition of the trailer cables.		* R
8	Overall Condition	Check and report the overall condition of all wiring and connectors.		* R

Recommended Spares

Description	Part No.
Knuckle Joint Block	4000151
Switch	908011
Limit Switch	910357
Limit switch	912164
PSU Board	9300/24
PCB Controller Board	9300/14
PCB Fuses	901060
Platform Actuator	502234
Barrier Arm Actuator	502233
Spirol Pin – 6.0mm dia.	502241
Spirol Pin – 5.0mm dia.	502242

Stannah Lifts Stairiser Maintenance Schedule Check List

Stairiser Contract No.

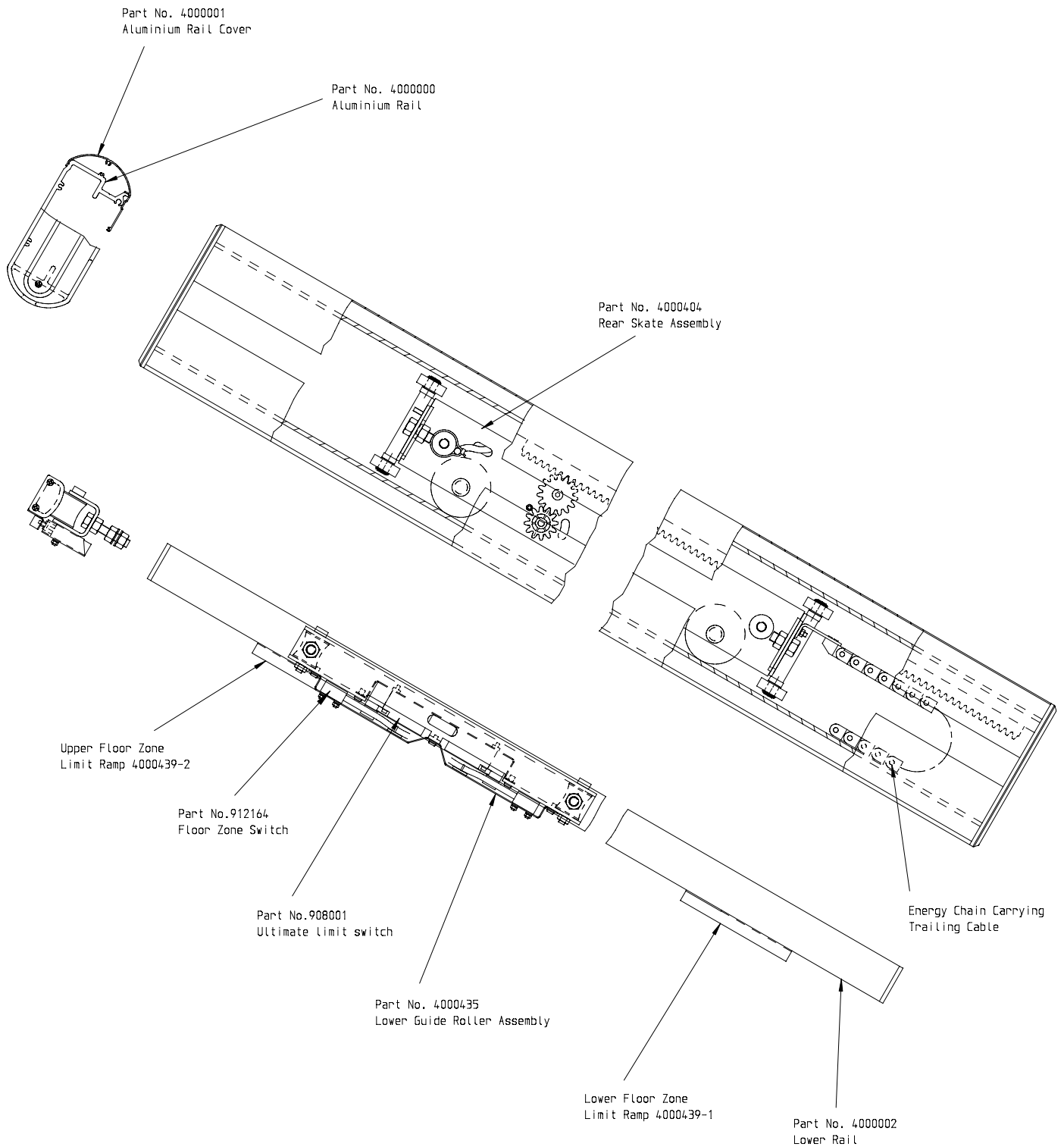
Customer Name & Address

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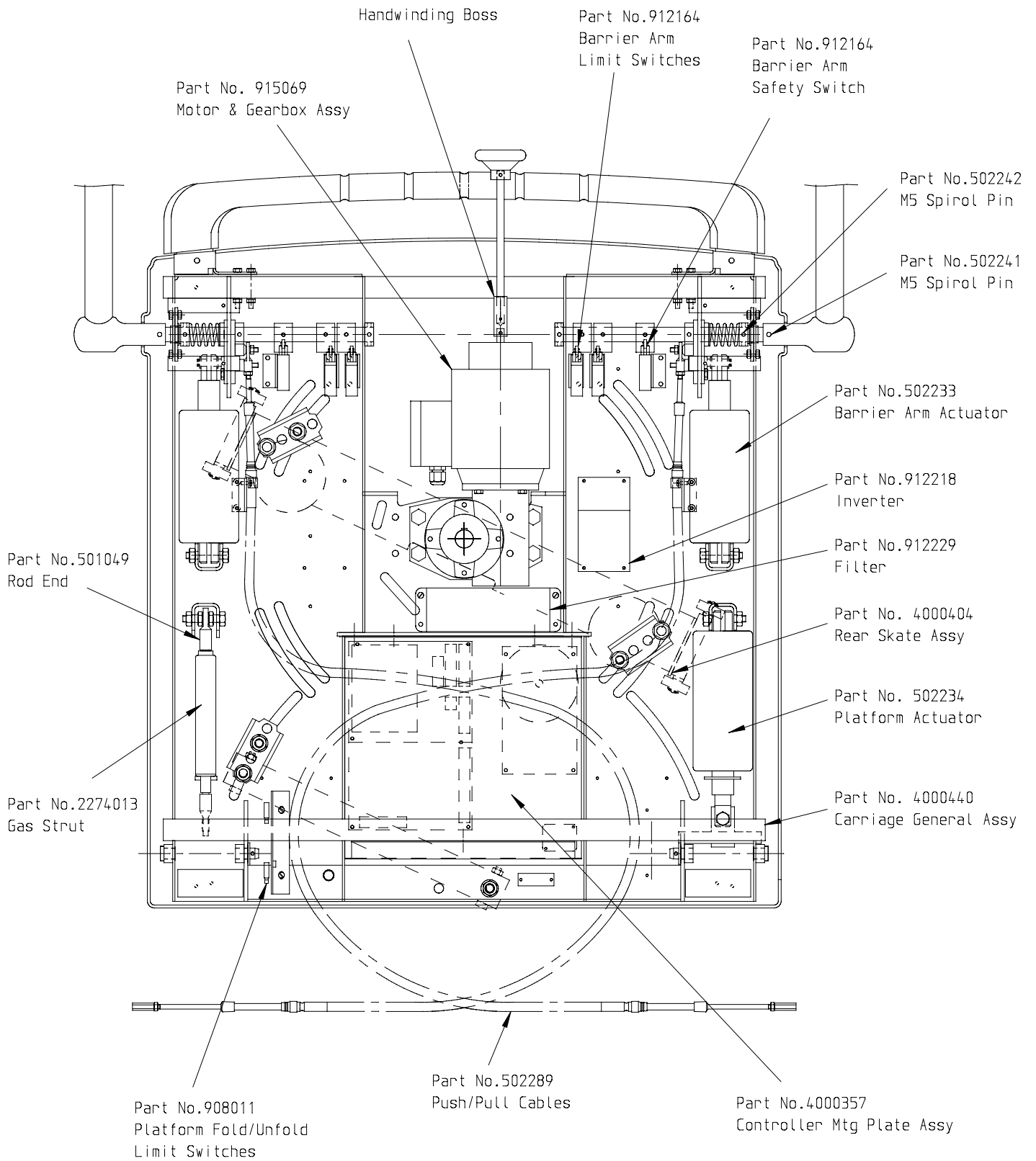
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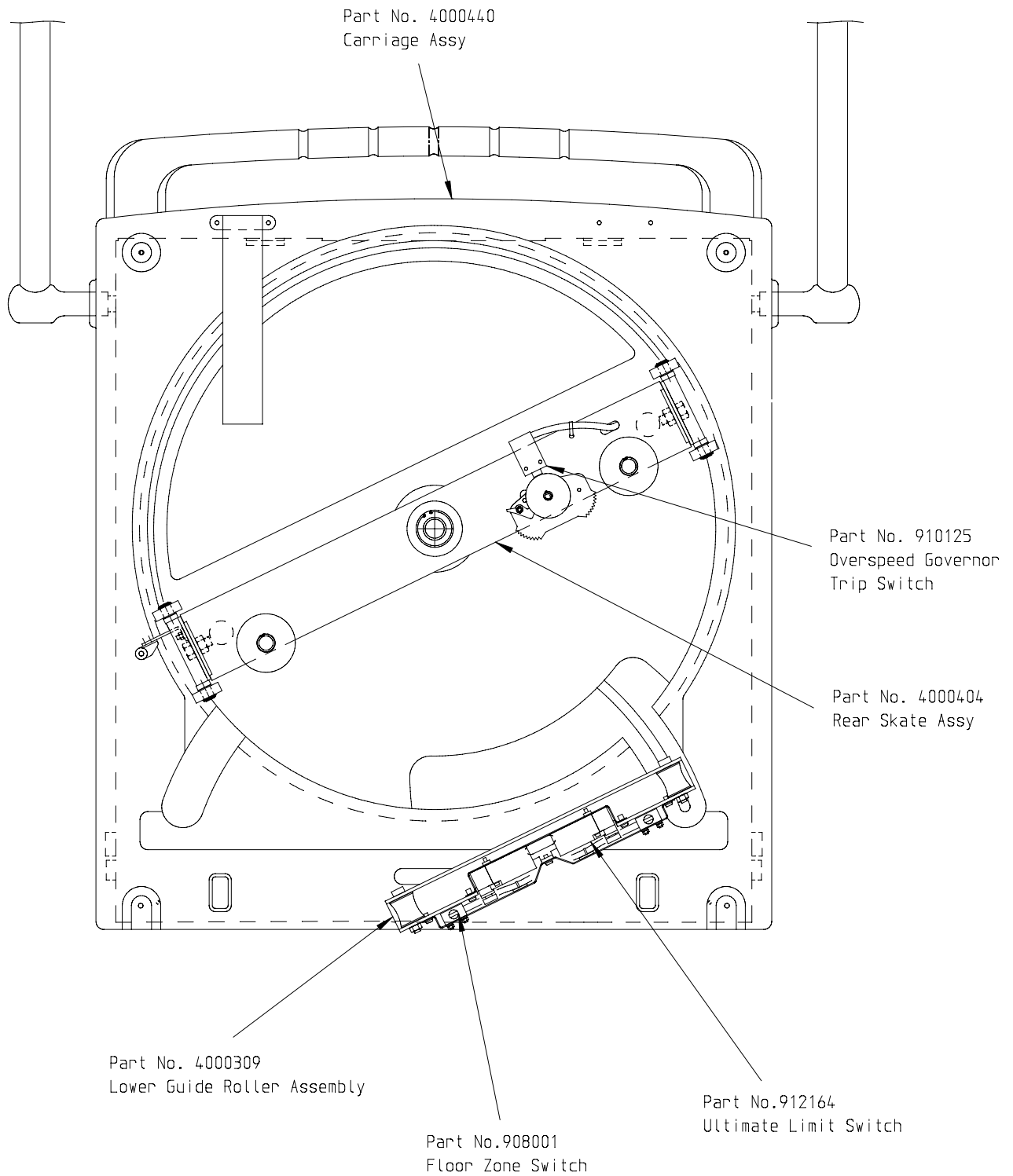
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Check	Completed	Parts Replaced	Corrective Action / Comments
Rail <ul style="list-style-type: none"> • Supports • Joint (if applicable) • Rack • Floor Zone Limit ramp • Ultimate Limit Ramps • Trailer Cables & Energy Chain • Overall Condition 			
Platform <ul style="list-style-type: none"> • End Ramps & Safety switches • Underpan Safety Switches • Push/Pull Cable • Overall Condition 			
Carriage <ul style="list-style-type: none"> • Motor/Gearbox • Motor Break Unit • Handwinding • Overspeed Governor • Platform pivot Points • Platform Knuckle Joint • Actuators • Gas Strut • Barrier Arm Alignment • Barrier Arm Switches • Platform fold/Unfold Switches • Carriage Fixings • Wiring • Overall Condition 			
Electrical Testing <ul style="list-style-type: none"> • Mains Electricity Supply • Control Voltage • Running Current Up • Running Current Down • Earth Continuity • Landing Controls • Carriage Controls • Trailing Cables • Overall Condition 			



Servicing Schedule
4000288 Issue D
Date: December 2005

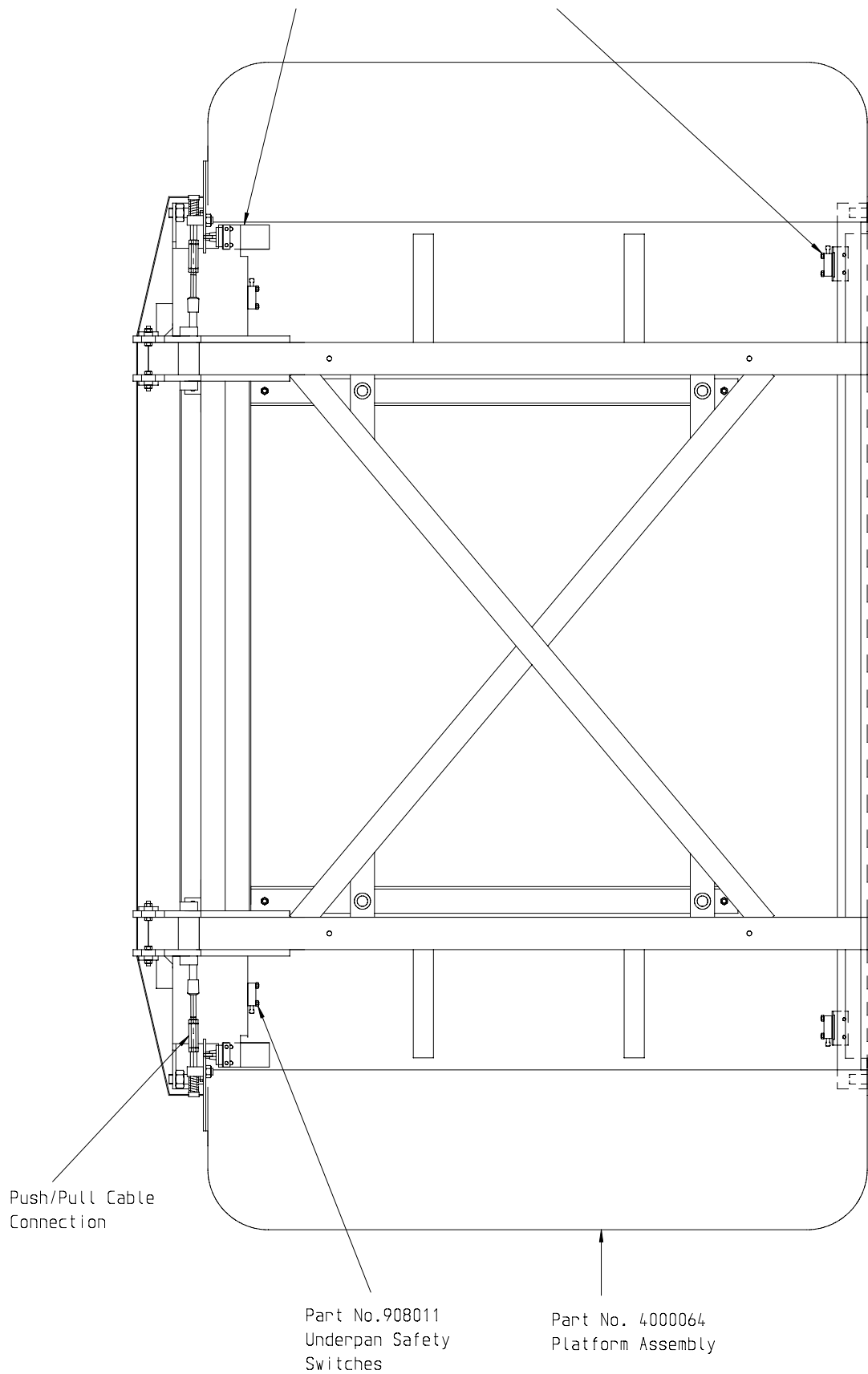






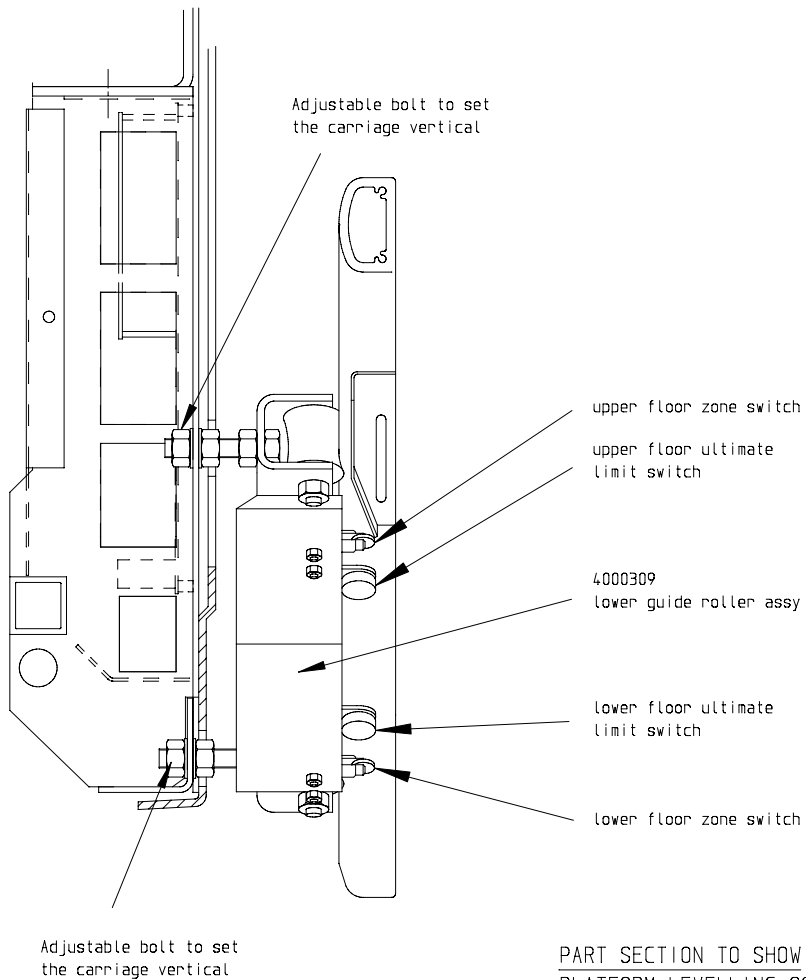
Part No.910357
Platform Ramp
Safety Switch

Part No.908011
Underpan Safety
Switches

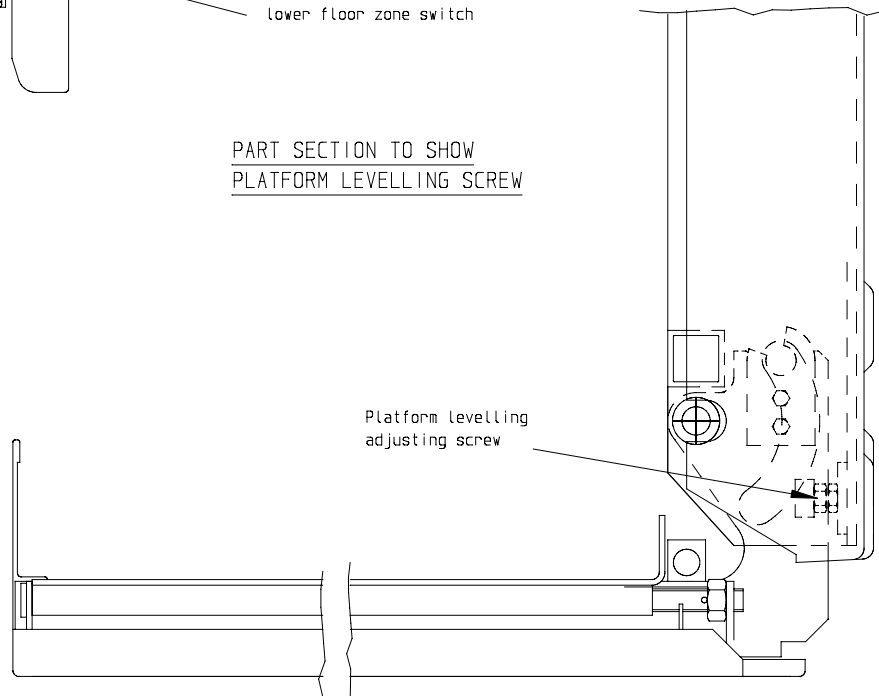


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4000291 Issue C
Date: December 2005

PART SECTION TO SHOW
CARRIAGE ADJUSTMENT



PART SECTION TO SHOW
PLATFORM LEVELLING SCREW



Overspeed governor site testing

Using a long, thin, flat bladed screwdriver through the slot and into the hole in the cam plate, pull the plate up to trip the overspeed governor. This is to be done when the carriage is being hand wound in the down direction. Having checked the operation the carriage can be hand wound back up the rail, the overspeed governor will reset itself.

