

L0099901 Emergency Kit Samsung Nextmove Drive Repair

Operating procedures and instructions for the emergency repair kit for Samsung / Nextmove machines


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Goal

This kit is to simplify the process of identifying and repairing drive and motor problems on site on older obsolete systems. It uses the spare service exchange stock harvested from refurbishments, rebuild and drive upgrades. This kit solves the following problems

- Attempting to successfully diagnose a faulty problem on phone support
- Successfully identifying the correct stock items
- Sending an engineer without the correct parts
- Reducing cost to customer where the root cause of a problem is not clear
- Improve first time fix, as all potential parts are on site to test
- Move the drive programming function to the engineer on site by sending a drive programming unit

 ...The drive programmers are extremely rare so must be treated with care and must be returned

Warranty

These parts are offered as second and emergency repair item only and **are not offered with a warranty**

Machines Covered














This kit is only suitable for the following machine types, using a Nextmove control system.
Does not apply to machines that have been upgraded to the Beckhoff control system

Machine Type
Flowline
Saw
ZX3 / 4
Microline

Process

Team	Trigger	Task
Service Support	Customer reports a drive / servo problem	Attempt phone and online diagnostics. If parts are needed request L0099901 Liaise with parts team to book engineer to meet crate on site (PO from customer needed)
Parts	Customer / service request for quote	Quote for L0099901
Parts	Wait for customer PO	Process Sales Order Arrange pick up / returns form - add to crate
Stores	Sales order requested	Dispatch crate for next day delivery
Stores	Crate received back to Stuga	Replenish missing stock items Update the free text works order with parts identified

Parts

R0099901 Box Contents of L0099901 Emergency Kit for Samsung Next		
	1	C0000151X !! Samsung Servo Motor (X, Y, Z, Saw) SX Service Exch CSMT_08BB1ANT3 ZA00F4
	1	C0000153SX !! Servo Motor: Samsung CSMH (R Axis) ZF02A3
	2	C0000155SX !! Servo Drive: Samsung Fara 1kW Service Exchange ZF01C1
	1	C0000157SX Servo Drive: Samsung Fara Breakout Panel Service Exch ZF00C1
	1	C0000190-SX 11 Amp Drive for V Y & Z Axis DM110 ZF00D2
	1	C0000280SX Stepper Enclosure: SA46/XO40 3 Axis + PSU (ZX) ZF00A2
	1	C0000342-SX !! Nextmove E100 NXE100-1608SB (Service Exc.) ZF00D4
	1	C0000384-SX !! Nextmove ESB-2 with Open Collector Outputs NSB20 ZF00D4
	5	E0000259 Connector: 4Way, Female Housing, 4.2mm Pitch (Mate-483-8663) ZA05A3 Samsung Servo Cable Power Plug
	5	E0000261 Connector: 9Way, Female Housing, 4.2mm Pitch (Mate-483-8685) ZA05A4 Samsung Feedback Cable Plug Housing
	25	E0000262 Connector: Female Pin for E0000261, 22AWG (Mate-N-274-2251) ZA05A4 Samsung Feedback Cable Pins
	25	E0000284 Connector: Male Pin for E0000285, 22AWG (Mate-N-Lo 274-2223) ZA05A4
	5	E0000285 Connector: 9Way, Male Housing, 4.2mm Pitch (Mate-N-483-8607) ZA05A3

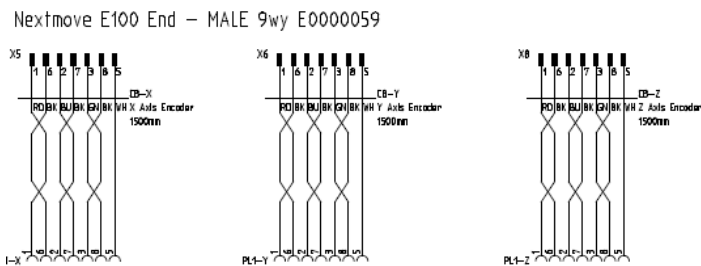
Drive Parameter Settings

Parameter		Router			Eco		Standalone Saw		Flowline / ZX / Microline								
		X Axis	X Axis (Sml mtr)		Std Hand	Opp Hand	Saw		X Axis		Y Axis		Z Axis	R Axis	R Axis	Saw Pusher	
			Std Hand	Opp Hand	Std Hand	Opp Hand	SH	OH		OH Zx		CSMH	RSMH	SH	OH		
1	Rpm per Volt	500	500	500	500	500	500	500	500	500	500		500	500	500	500	500
2	P Gain	60	277	277	125	125	65	65	110				250	40	40	65	65
3	I Gain	46	356	356	45	45	25	25	50				160	33	33	25	25
4	Pos P Gain	50	15	15	50	50	23	23	23				23	23	23	23	23
6	T Cut Off Freq	250	879	879	500	500	600	600	500				750	750	750	600	600
34	Pos FF Gain	50	50	50	50	50	0	0	0				0	0	0	0	0
36	Gear Num	2048	2048	2048	2048	2048	1024	1024	1024				1024	2048	2048	1024	1024
37	Gear Denom	400	8192	8192	400	400	2048	2048	2048				2048	1024	1024	2048	2048
40	Speed cutof freq	200	251	251	200	200	0	0	0				0	0	0	0	0
41	Control Mode	0	0	0	1	1	1	1	1				1	0	0	1	1

44		10	0	0	0	1000	0	1000	1000	0	1000	0	0	1000	0
44-1	Stop Method	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44-2	After Stop	1	0	0	0	0	0	0	0	0	0	0	0	0	0
44-3	Emergency Stop	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44-4	Encoder O/p dir	0	0	0	0	1	0	1	1	0	1	0	0	1	0
45		0	0	0	0	1000	0	1000	1000	0	1000	1000	1000	1000	0
45-1	Zero Clamp	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45-2	Trapez / Scurve	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45-3	Torque filter	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45-4	Fwd / Reverse	0	0	0	0	1	0	1	1	0	1	1	1	1	0
45-5	Pulse O/p cct	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46		40008	40008	40008	40000	40000	40008	40008	40008		40008	40008	40008	40008	40008
46-1	Pulse Form	8	8	8	0	0	8	8	8		8	8	8	8	8
46-2	Select Set 01 Unit	0	0	0	0	0	0	0	0		0	0	0	0	0
46-3	Reserved	0	0	0	0	0	0	0	0		0	0	0	0	0
46-4	Function of CN1 10pin	0	0	0	0	0	0	0	0		0	0	0	0	0
46-5	Function of CN1 15pin	4	4	4	4	4	4	4	4		4	4	4	4	4
51	Encoder Type	1	1	1	1	1	1	1	1		1	100	107	1	1
52	Motor Type	1012	1012	1012	1012	1012	1012	1012	1012		1012	2322	2422	1012	1012
53	Motor Capacity	80	100	100	80	80	80	80	80		80	100	100	80	80

Drawings

Encoder Cables to Nextmove



Drive end use FEMALE 9wy E0000046

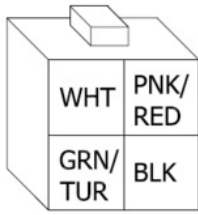
For BALDOR drive add E0000135 Gender Changer

Motor Cable Plugs

Samsung Plug For Motors

R9537, R3906, R3907,
R3908, R3909,

Power

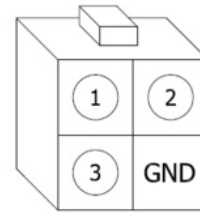


(E288 4 WAY PLUG
E284 PINS)

Viewed From
Behind

Samsung Sockets on Leads

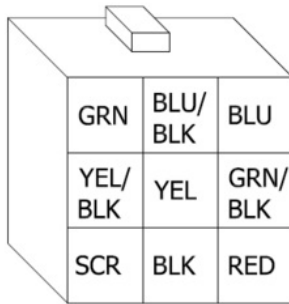
Power



(E259 4 WAY SOCKET
E262 SOCKETS)

Viewed From
Behind

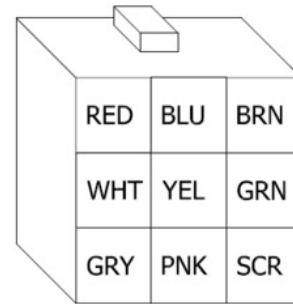
Resolver



(E285 9 WAY PLUG
E284 PINS)

Viewed From
Behind

Resolver



(E261 9 WAY SOCKET
E262 SOCKETS)

Viewed From
Behind