MODULA Inc.

PREVENTIVE MAINTENANCE PROGRAM REFERENCE BOOK

LIFT1

LIFT2

V5.1 AUG 23

REFERENCE TABLE

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PREVENTIVE MAINTENANCE FAQ'S & TERMS

PM LEVELS **Summary of what is Required** **ALL PM LEVELS PERFORMED INCLUDE LEVEL 1 SERVICE**	• **LEVEL 1 = 15,000 missions or every 12 months** ***(Harsh environments may require more frequent)*** o LUBE, INSPECT, ADJUST as necessary per maintenance manual. o Pull all trays, back up files, upgrade SW & FW, calibrate laser if present. o Ensure all accessories are in good working order • **LEVEL 2 = 45,000 missions:** ***(Increased from 30k to 45k in 2021)*** **EXCTRACTOR RUNNING GEAR:** o Chains, Sprockets & Bearings, Chain Guides **AUTOMATIC DOOR SYSTEM:** *o* If a door is present, the door belts, switches & guides o SWITCHES are recommended to be replaced at 45k also because they're low cost and good insurance. (*You know they're fresh when you replace them!)* **EXTERNAL BAY SYSTEM*: (prior to 2021, this was LEVEL 3 service, but remains at 45k interval)*** *- BAY SLIDES – Replace the FULL SLIDE as an assembly, replacing belts is not acceptable.* *- EXTERNAL TIMING BELT* *- EXTERNAL IDLER / TENSIONING pulley assembly* *- BAY SLIDE DETECTION SWITCHES* • **LEVEL 3 = 60,000 missions:** ***(Increased from 45k to 60k in 2021)*** o VERTICAL WHEEL PIPES – The four corners of the extractors. *You need this tool to center the extractor: 80097842* o If performing the DS2 RETROFIT - ALL 4 must be replaced. OLD and NEW are not compatible • **LEVEL 4 = 135,000 missions – *(this is for 8~10M machine. TALL UNITS are less missions)*** o Vertical Belts o Vertical Belt Drive & Slave Pulleys o Motor / Gearboxes if excessive wear and/or leaking • **EVERY 300,000 missions:** INSPECT / REPLACE MOTORS & GEARBOXES as needed • **EVERY 10 YEARS (RECOMMENDED):** o TRAY RUNNERS - These are the (4) Corners of the tray. Commonly referred to as "tray blocks" o FALL PROTECTION ROPES - These are the "SAFETY ROPES" installed on the front side of the ladder frames and can fatigue over time. Routine inspections for damage or breakdown should be performed. o ELEVATOR SAFETY KIT - This is made up of the Elevator Safety Straps (usually orange) and the removable clamps. These can fatigue over time.
EAGLE BELT RETROFIT *(RRP14 to EAGLE)* **What does it mean?**	RPP14 = SLOTTED BELT - Production from JAN 2010 through SEP 2019 EAGLE = ANGLED TEETH - Production from OCT 2019 through CURRENT **IF EQUIPED WITH RPP14 - ANY HEIGHT MODIFICATION, MACHINE RELOCATION, or LEVEL 4 PM - REQUIRES CONVERSION!!**
TUV - NO TUV **What`s the difference?**	TUV = Technischer Überwachungs-Verein or "Technical Watch-Over Association" Modula made some mechanical & electrical modifications to production to meet TUV standards during the 2011 production year. Specific attention paid to the EXT BAY SLIDES: TUV = MICRO SWITCHES; NON-TUV = PROX
DS2 VS REER **What's the difference?**	The 3rd numerical designation in the Serial Number determines DS2/REER for SHAPE / HEIGHT DETECTION or LIFT NG /2.0 DS2 = DATALOGIC BRAND & DATASENSOR MODEL; REER = REER BRAND The "3-Wheel" Wheel Tubes require a special bracket for the DS2 Barrier and require the RETROFIT LEVEL 3 KIT 2A. Once the unit has been retrofitted, the STANDARD MAINTENANCE KIT 2A will be used
MEWP / PLE	MEWP = MOBILE ELEVATING WORK PLATFORM or more commonly referred to as SCISSOR LIFT This option was not available for LIFT 1.0 and is only an option for VERY TALL LIFT 2.0 vlms. "NO PLE" or "NO MEWP" refers to the use of the extractor as the installation platform using a very special installation process; spelled out in the INSTALLATION MANUAL

REFERENCE TABLE

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Serial Number Information:

Did you know that from the modula serial number you can retrieve a lot of information?

Example: **LIFT1 - MLD163001 = ML - D - 16 - 3 - 001 - US** **LIFT2 - MLD2150001US = ML - D - 21 - 5 - 0001 - US**

ML = The first 2 letters in the SN refer to the **machine model**.
(ML in the example)

D = If you have a **D** as the 3rd Digit, means that the machine in question is a **DEEP (857mm)** model
If there is **no D**, means that the machine is a **STD (654mm)** model.
(DEEP machine in example)

16 = The first 2 numerical digits are the **production year**
(LIFT1 Year 2016 in this example) - (LIFT2 Year 2021 in this example)

3 = The 3rd digit is always the **electrical panel version**
(version 3 in this example)

Electrical panel version that you can find:

- **0 = DS2 MACHINE**
  (Datalogic Safety Barriers, Slotted Belt (RRPP14), Flat REM I/O)
- **1 = DS2 MACHINE**
  (Datalogic Safety Barriers, Slotted Belt (RRPP14), Flat REM I/O)
- **2 = DS2 MACHINE**
  (Datalogic Safety Barriers, Slotted Belt (RRPP14), Vertical REM I/O)
- **3 = REER MACHINE**
  (REER Safety Barriers, Slotted Belt (RRPP14), Vertical REM I/O)
- **4 = REER S28 MACHINE (OCT 2019)**
  (REER Safety Barriers, Eagle Belt, S28 Safety Enhancement, Vertical REM I/O)
- **5 = LIFT NG (2.0) MACHINE - 2021 PRODUCTION START**
  (MICRON / REER Safety Barriers, Eagle Belt, S28 Safety Enhancement, Vertical REM I/O, ANTI-TAMPER circuit)

001 / **0001** = LIFT1: The last 3 (if D machine) or 4 (STD machine) digits are the serialized production Number for the specific model
LIFT2: The last 4 (if D machine) or 5 (STD machine) digits are the serialized production Number for the specific model

US = This designation indicates the machine was produced in the United States

PREVENTIVE MAINTENANCE FREQUENCY MATRIX

Mission #:	LVL1	LVL2	LVL3	LVL4	Performing Time: (ext. Bay machine)	Tech #:
15,000	X				4 / 6 Hrs.	1
30,000	X				4 / 6 Hrs.	1
45,000	X	X			16 / 20 Hrs.	2
60,000	X		X		16 / 20 Hrs.	2
75,000	X				4 / 6 Hrs.	1
90,000	X	X			16 / 20 Hrs.	2
105,000	X				4 / 6 Hrs.	1
120,000	X		X		16 / 20 Hrs.	2
135,000	X	X		X	32 / 40 Hrs.	2
150,000	X				4 / 6 Hrs.	1

LIFT 1.0 PREVENTIVE MAINTENANCE KIT CODES
TABLE 1.0
& MODULA AVERAGE PERFORMING TIME

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LEVEL 2		PM KIT_2B EXTRACTOR RUNNING GEAR			45,000 MISSIONS	PERFORMING TIME		
MODEL:		25*	50/75	1000	LIST PRICE:	Tech #	Hrs.	Total Hrs.
DEEP *(857mm)*		1M002957	1M002958	1M002945	$ 2,500.00	2	2	4
STD *(654mm)*		1M002846	1M002851	1M002944	$ 2,500.00			
DOOR		1M002847	1M002847	1M002847	$ 200.00	2	3	6

**ML25/ML25D Produced JUNE 2020 & later requires the 50/75 kit which is 5/8"*

LEVEL 2		PM KIT_3 EXTERNAL BAY SYSTEM TUV		45,000 MISSIONS	PERFORMING TIME		
MODEL:		25/50/75	1000	LIST PRICE:	Tech #	Hrs.	Total Hrs.
DUAL DELIVERY	DEEP *(857mm)*	1M002960	1M002949	$ 4,500.00	2	3	6
	STD *(654mm)*	1M002850	1M002947	$ 4,500.00			
SINGLE DELIVERY	DEEP *(857mm)*	1M002959	1M002948	$ 2,750.00	2	2	4
	STD *(654mm)*	1M002849	1M002946	$ 2,750.00			

LEVEL 2		PM KIT_3 EXTERNAL BAY SYSTEM *NON-TUV*		45,000 MISSIONS	PERFORMING TIME		
MODEL:		25/50/75	1000	LIST PRICE:	Tech #	Hrs.	Total Hrs.
DUAL DELIVERY	DEEP *(857mm)*	1U000077	N/A	$ 5,500.00	2	3	6
	STD *(654mm)*	1U000076	N/A	$ 5,500.00			
SINGLE DELIVERY	DEEP *(857mm)*	1U000074	N/A	$ 3,500.00	2	2	4
	STD *(654mm)*	1U000075	N/A	$ 3,500.00			

LEVEL 3	PM KIT_2A EXTRACTOR WHEEL TUBE SYSTEM			60,000 MISSIONS	PERFORMING TIME		
MODEL:	25/50	75	1000	LIST PRICE:	Tech #	Hrs.	Total Hrs.
STANDARD MAINT. KIT	D0900984600	D0900984700	D0900984700	$ 2,000.00	2	3	6
DS2 RETROFIT	D0900984800	D0900984900	N/A	$ 2,000.00			
REER RETROFIT	D0900985400	D0900985500	D0900985500	$ 2,000.00			

LEVEL 4	PM KIT_1 VERTICAL DRIVE PULLEYS, BELTS		135,000 MISSIONS	PERFORMING TIME		
MODEL:	25/50/75	1000	LIST PRICE:	Tech #	Hrs.	Total Hrs.
EAGLE PULLEY KIT	1M002961	1M002950	$ 2,000.00	2	6	12
RPP14 to EAGLE CONVERSION	1M002961	1M002950	$ 2,000.00	2	7	14
	1U000078	1U000078	$ 350.00			
EAGLE BELT	See Table 2.0 for P/N, Cost, and Length			included with pulley replacement		

LEVEL 4	PM KIT_1 EXTRACTOR CABLING / E-CHAIN		135,000 MISSIONS	PERFORMING TIME		
HEIGHT of MACH in mm:	25/50/75	1000	LIST PRICE:	Tech #	Hrs.	Total Hrs.
3300 - 6100	1U000084	1U000084				
6300 - 8100	1U000083	1U000083				
8300 - 10100	1U000082	1U000082	$ 700.00	2	2	4
10300 - 12100	1U000081	1U000081				
12300 - 14100	1U000080	1U000080				

LIFT 2.0 PREVENTIVE MAINTENANCE KIT CODES
TABLE 1.0
& MODULA AVERAGE PERFORMING TIME

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LEVEL 2		PM KIT_2B EXTRACTOR RUNNING GEAR			45,000 MISSIONS	PERFORMING TIME		
MODEL:		25*	50/75	1000	LIST PRICE:	Tech #	Hrs.	Total Hrs.
DEEP *(857mm)*		D0900985700	D0900985900	D0900986100	$ 2,500.00	2	2	4
STD *(654mm)*		D0900985800	D0900986000	D0900986200	$ 2,500.00			

**ML25/ML25D Producted JUNE 2020 & later requires the 50/75 kit which is 5/8"*

LEVEL 2		PM KIT_3 EXTERNAL BAY SYSTEM TUV		45,000 MISSIONS	PERFORMING TIME		
MODEL:		25/50/75	1000	LIST PRICE:	Tech #	Hrs.	Total Hrs.
DUAL DELIVERY	DEEP *(857mm)*	D0900986500	D0900986900	$ 4,500.00	2	3	6
	STD *(654mm)*	D0900986600	D0900987000	$ 4,500.00			
SINGLE DELIVERY	DEEP *(857mm)*	D0900986700	D0900987100	$ 2,750.00	2	2	4
	STD *(654mm)*	D0900986800	D0900987200	$ 2,750.00			

LEVEL 2	PM KIT_4 AUTOMATIC DOOR SYSTEM	45,000 MISSIONS	PERFORMING TIME		
MODEL:	25/50/75/1000	LIST PRICE:	Tech #	Hrs.	Total Hrs.
S DOOR	1M002847	$ 200.00	2	3	6
M DOOR	D0900986300	$ 200.00	2	3	6
XL DOOR	D0900986400	$ 200.00	2	3	6

LEVEL 3	PM KIT_2A EXTRACTOR WHEEL TUBE SYSTEM			60,000 MISSIONS	PERFORMING TIME		
MODEL:	25/50	75	1000	LIST PRICE:	Tech #	Hrs.	Total Hrs.
STANDARD MAINT. KIT	D0900984600	D0900984700	D0900984700	$ 2,000.00	2	3	6

LEVEL 4	PM KIT_1 VERTICAL DRIVE PULLEYS, BELTS		135,000 MISSIONS	PERFORMING TIME		
MODEL:	25/50/75	1000	LIST PRICE:	Tech #	Hrs.	Total Hrs.
EAGLE PULLEY KIT	D0900987300	D0900987500	$ 2,000.00	2	6	12
EAGLE PULLEY KIT *NO PLE*	D0900987400	N/A	$ 2,000.00	2	6	12
EAGLE BELT	See Table 2.0 for P/N, Cost, and Length			included with pulley replacement		
E-CHAIN	See Table 3.0 for P/N, Cost, and Length			2	2	4

LIFT 1.0 & 2.0
TABLE 2.0 EAGLE BELT CHART

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LVL 4 PM - LIFT / ONETON - ALL MODEL - EAGLE BELT - 135,000 MISSION

HEIGHT:	ALL MODELS	LENGTH (mm)	QTY	TOTAL LENGTH (mm)	LIST PRICE: ($60.00 per Meter)
3300	90007075	6552	2	13104	$ 786.24
3500		6944		13888	$ 833.28
3700		7350		14700	$ 882.00
3900		7742		15484	$ 929.04
4100		8148		16296	$ 977.76
4300		8554		17108	$ 1,026.48
4500		8946		17892	$ 1,073.52
4700		9352		18704	$ 1,122.24
4900		9744		19488	$ 1,169.28
5100		10150		20300	$ 1,218.00
5300		10542		21084	$ 1,265.04
5500		10948		21896	$ 1,313.76
5700		11354		22708	$ 1,362.48
5900		11746		23492	$ 1,409.52
6100		12152		24304	$ 1,458.24
6300		12544		25088	$ 1,505.28
6500		12950		25900	$ 1,554.00
6700		13342		26684	$ 1,601.04
6900		13748		27496	$ 1,649.76
7100		14154		28308	$ 1,698.48
7300		14546		29092	$ 1,745.52
7500		14952		29904	$ 1,794.24
7700		15344		30688	$ 1,841.28
7900		15750		31500	$ 1,890.00
8100		16142		32284	$ 1,937.04
8300		16548		33096	$ 1,985.76
8500		16954		33908	$ 2,034.48
8700		17346		34692	$ 2,081.52
8900		17752		35504	$ 2,130.24
9100		18144		36288	$ 2,177.28
9300		18550		37100	$ 2,226.00
9500		18942		37884	$ 2,273.04
9700		19348		38696	$ 2,321.76
9900		19754		39508	$ 2,370.48
10100		20146		40292	$ 2,417.52
10300		20552		41104	$ 2,466.24
10500		20944		41888	$ 2,513.28
10700		21350		42700	$ 2,562.00
10900		21742		43484	$ 2,609.04
11100		22148		44296	$ 2,657.76
11300		22554		45108	$ 2,706.48
11500		22946		45892	$ 2,753.52
11700		23352		46704	$ 2,802.24
11900		23744		47488	$ 2,849.28
12100		24150		48300	$ 2,898.00
12300		24542		49084	$ 2,945.04
12500		24948		49896	$ 2,993.76
12700		25354		50708	$ 3,042.48
12900		25746		51492	$ 3,089.52
13100		26152		52304	$ 3,138.24
13300		26544		53088	$ 3,185.28
13500		26950		53900	$ 3,234.00
13700		27342		54684	$ 3,281.04
13900		27748		55496	$ 3,329.76
14100		28154		56308	$ 3,378.48

LIFT 2.0 ONLY - 14300 ~ 16000
TABLE 2.0 EAGLE BELT CHART

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LVL 4 PM - LIFT / ONETON - ALL MODEL - EAGLE BELT - 135,000 MISSION

HEIGHT:	ALL MODELS	LENGTH (mm)	QTY	TOTAL LENGTH (mm)	LIST PRICE: ($60.00 per Meter)
14300	90007075	28560	2	57120	$ 3,427.20
14500		28966		57932	$ 3,475.92
14700		29372		58744	$ 3,524.64
14900		29778		59556	$ 3,573.36
15100		30184		60368	$ 3,622.08
15300		30590		61180	$ 3,670.80
15500		30996		61992	$ 3,719.52
15700		31402		62804	$ 3,768.24
15900		31808		63616	$ 3,816.96
16100		32214		64428	$ 3,865.68

LIFT 2.0 ONLY
TABLE 3.0 - E-CHAIN CHART

LEVEL 4	PM KIT_1 EXTRACTOR CABLING / E-CHAIN	135,000 MISSIONS
HEIGHT of VLM in mm:	25/50/75/1000	LIST PRICE:
3200 - 4100	70005973	$ 700.00
4300 - 5100	70005974	$ 700.00
5300 - 6100	70005975	$ 700.00
6300 - 7100	70005976	$ 700.00
7300 - 7700	70005977	$ 700.00
7900 - 8300	70005978	$ 700.00
8500 - 8900	70005979	$ 700.00
9100 - 9500	70005980	$ 700.00
9700 - 10100	70005981	$ 700.00
10300 - 10700	70005982	$ 700.00
10900 - 11300	70005983	$ 700.00
11500 - 11900	70005984	$ 700.00
12100 - 12500	70005985	$ 700.00
12700 - 13100	70005986	$ 700.00
13300 - 14100	70005987	$ 700.00
14300 - 15100	70005988	$ 700.00
15300 - 16100	70005989	$ 700.00

NOTES:
ALL E-CHAINS ARE PRE-LACED AND PREPARED FOR INSTALLATION FROM THE FACTORY

LIFT 1.0

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LEVEL 4	PM KIT_1 - EAGLE BELT CONVERSION & EAGLE BELT COMPONENTS	135,000 MISSIONS

1U000078	LVL 4 - LIFT1 ONLY - EAGLE BELT CONVERSION PARTS	
PART #:	DESCRIPTION:	QTY:
80038136	CLAMP FOR TENSION BELT E14 XHPL	2
80038140	CLAMP PLATE E14 XHPL	2
80054194	STEEL SHEET OF SUPPORT FOR EAGLE BELT	2

1M002961	LVL 4 - LIFT1 ONLY - EAGLE BELT PULLEY GROUP	
PART #:	DESCRIPTION:	QTY:
1M001928	GROUP EAGLE RIGHT PULLEY	2
1M001929	GROUP EAGLE LEFT PULLEY	2

1M002950	LVL 4 - LIFT1 ONETON ONLY - EAGLE BELT PULLEY GROUP	
PART #:	DESCRIPTION:	QTY:
1M001680	LEFT PULLEY GROUP ONE TON	2
1M001682	RIGHT PULLEY GROUP ONE TON	2

NOTES:

LIFT 2.0

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LEVEL 4	PM KIT_1 - EAGLE BELT & PULLEY COMPONENTS	135,000 MISSIONS

D0900987300	LVL 4 - LIFT2 ONLY - EAGLE BELT PULLEY GROUP	
PART #:	DESCRIPTION:	QTY:
1M004735	CANNED PULLEY RH PRC	1
1M004736	CANNED PULLEY LH 750 (PRC)	1
1M009961	PRC CAP RH PULLEY ASSEMBLY (313x197x150	1
1M009962	PRC CAP LH PULLEY ASSEMBLY (313x197x150	1

D0900987400	LVL 4 - LIFT2 ONLY - EAGLE BELT PULLEY GROUP **NO PLE**	
PART #:	DESCRIPTION:	QTY:
1M004735	CANNED PULLEY RH PRC	1
1M004736	CANNED PULLEY LH 750 (PRC)	1
1M006317	RH PULLEY GROUP TOP LIFT NO PLE MAINTENA	1
1M006337	LH PULLEY GROUP TOP LIFT NO PLE MAINTENA	1

D0900987500	LVL 4 - LIFT2 ONETON ONLY - EAGLE BELT PULLEY GROUP	
PART #:	DESCRIPTION:	QTY:
1M004712	CANNED PULLEY RH SKF	1
1M004711	CANNED PULLEY LH	1
1M009964	SKF CAP RH PULLEY ASSEMBLY (313x197x150	1
1M009965	SKF CAP LH PULLEY ASSEMBLY (313x197x150	1

NOTES:

LIFT 1.0 ONLY

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LEVEL 3	PM KIT_2A - WHEELTUBES KIT	60,000 MISSIONS

D0900984800 — **LVL 3 - LIFT1 ONLY - 25/50 - (250kg/500kg) - DS2 RETROFIT**

PART #:	DESCRIPTION:	QTY:
1M004840	RIGHT ELEVATOR ROLLING WHEEL SET (733x120x78)	2
1M004841	LEFT ELEVATOR ROLLING WHEEL SET (733x120x78)	2
1M005071	REGISTRATION KIT GRP	1
L9326508000	WASHER SERATED BEVEL M8 GALV	32
L9326008004	WASHER FLAT M8 DE 16 GALV UNI 6592	24
L9310080140	SCREW HEX HD M8X14 GALV FULLY THREADED	32
80069344	ELEV VERT GUIDE BRKT SPRING TYPE	4
1M004625	LIGHT CURTAIN SUPPORT	2

D0900984900 — **LVL 3 - 75 - (750KG) - DS2 RETROFIT**

PART #:	DESCRIPTION:	QTY:
1M011138	RIGHT ELEVATOR ROLLING WHEEL SET (733x120x78)	2
1M011137	LEFT ELEVATOR ROLLING WHEEL SET (733x120x78)	2
1M005071	REGISTRATION KIT GRP	1
L9326508000	WASHER SERATED BEVEL M8 GALV	32
L9326008004	WASHER FLAT M8 DE 16 GALV UNI 6592	24
L9310080140	SCREW HEX HD M8X14 GALV FULLY THREADED	32
80069344	ELEV VERT GUIDE BRKT SPRING TYPE	4
1M004625	LIGHT CURTAIN SUPPORT	2

NOTES:

1) This kit is to be used ONE TIME per machine to retrofit the DS2 equipped VLMs.

2) The differences are that this kit comes with BATWINGS and LIGHT CURTAIN BRACKETS to clear the newer style tube. 1M004625 is a KIT and includes (4) brackets & Associated hardware

D0900985400 — **LVL 3 - LIFT1 ONLY - 25/50 - (250kg/500kg) - REER RETROFIT**

PART #:	DESCRIPTION:	QTY:
1M004840	RIGHT ELEVATOR ROLLING WHEEL SET (733x120x78)	2
1M004841	LEFT ELEVATOR ROLLING WHEEL SET (733x120x78)	2
1M005071	REGISTRATION KIT GRP	1
L9326508000	WASHER SERATED BEVEL M8 GALV	32
L9326008004	WASHER FLAT M8 DE 16 GALV UNI 6592	24
L9310080140	SCREW HEX HD M8X14 GALV FULLY THREADED	32
80069344	ELEV VERT GUIDE BRKT SPRING TYPE	4

D0900985500 — **LVL 3 - 75/1000 - (750g/1000kg) - REER RETROFIT**

PART #:	DESCRIPTION:	QTY:
1M011138	RIGHT ELEVATOR ROLLING WHEEL SET (733x120x78)	2
1M011137	LEFT ELEVATOR ROLLING WHEEL SET (733x120x78)	2
1M005071	REGISTRATION KIT GRP	1
L9326508000	WASHER SERATED BEVEL M8 GALV	32
L9326008004	WASHER FLAT M8 DE 16 GALV UNI 6592	24
L9310080140	SCREW HEX HD M8X14 GALV FULLY THREADED	32
80069344	ELEV VERT GUIDE BRKT SPRING TYPE	4

NOTES:

1) This kit is to be used ONE TIME per machine to retrofit the REER equipped VLMs before the NEW STYLE WT was introduced

2) The differences between this kit and the DS2 KIT, is that the DS2 includes the LIGHT CURTAIN BRACKETS and this kit does not.

NOTES:

LIFT 1.0 & 2.0

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LEVEL 3	PM KIT_2A - WHEELTUBES KIT	60,000 MISSIONS

D0900984600 — **LVL 3 - 25/50 - (250kg/500kg) - STANDARD MAINTENANCE KIT**

PART #:	DESCRIPTION:	QTY:
1M004840	RIGHT ELEVATOR ROLLING WHEEL SET (733x120x78)	2
1M004841	LEFT ELEVATOR ROLLING WHEEL SET (733x120x78)	2
1M005071	REGISTRATION KIT GRP	1
L9326508000	WASHER SERATED BEVEL M8 GALV	32
L9326008004	WASHER FLAT M8 DE 16 GALV UNI 6592	24
L9310080140	SCREW HEX HD M8X14 GALV FULLY THREADED	32

D0900984700 — **LVL 3 - 75/100 - (750g/1000kg) - STANDARD MAINTENANCE KIT**

PART #:	DESCRIPTION:	QTY:
1M011138	RIGHT ELEVATOR ROLLING WHEEL SET (733x120x78)	2
1M011137	LEFT ELEVATOR ROLLING WHEEL SET (733x120x78)	2
1M005071	REGISTRATION KIT GRP	1
L9326508000	WASHER SERATED BEVEL M8 GALV	32
L9326008004	WASHER FLAT M8 DE 16 GALV UNI 6592	24
L9310080140	SCREW HEX HD M8X14 GALV FULLY THREADED	32

NOTES:

1) This kit is to be used for STANDARD MAINTENANCE intervals of 45,000 missions (LIFT1 & LIFT2)

2) DS2 machines need to have ALREADY been retrofitted to use this kit

3) 1M005071 - Is the Thumb Screws & Screw Alignment Kit

NOTES:

LIFT 1.0

V5.1 - AUG - 23

LEVEL 2	PM KIT_2B - CHAINS, PAWLS, SPROCKETS, DOOR components (if present)	45,000 MISSIONS

1M002957	LVL 2 - LIFT1 ONLY - 25D - (250kg - DEEP) *(MLD 250KG)*	
PART #:	DESCRIPTION:	QTY:
7774501171	POSITION MICRO SWITCH 1NA 2NC NFB110CH-SMK	2
1M007714	KIT PAWL REPLACEMENT 1/2" LIFT	4
3362586002	IDLER SPROCKET GROUP FOR 250Kg ELEVATOR	8
80107870	CHAIN 1/2" LD L 2336.8 D6.36	2
8125170800	TRACK CHAIN UPPER 1/2" LD 1066X21X19.4	2
8125170600	TRACK CHAIN LOWER 1/2" MD 996X36.7X20	2

1M002958	LVL 2 - LIFT1 ONLY - 50D/75D - (500kg/750kg - DEEP) *(MLD 250KG*	
PART #:	DESCRIPTION:	QTY:
7774501171	POSITION MICRO SWITCH 1NA 2NC NFB110CH-SMK	2
1M001111	KIT PAWL REPLACEMENT 5/8" LIFT	4
3362586003	IDLER SPROCKET GROUP FOR 500Kg /750kg	8
8149021900	EXTRACTOR CHAIN 5/8 LD 2381.25	2
8125170900	TRACK CHAIN UPPER 5/8" LD 1066X27.1X18.5	2
8125170700	TRACK CHAIN LOWER 5/8" MD 973X36.7X20	2

1M002945	LVL 2 - LIFT1 ONLY - 1000D - ONETON - (1000kg - DEEP)	
PART #:	DESCRIPTION:	QTY:
7774501171	POSITION MICRO SWITCH 1NA 2NC NFB110CH-SMK	2
1M001111	KIT PAWL REPLACEMENT 5/8" LIFT	4
1M001543	GEAR GRP ONE TON	8
8149021900	EXTRACTOR CHAIN 5/8 LD 2381.25	2
8125170900	TRACK CHAIN UPPER 5/8" LD 1066X27.1X18.5	2
8125170700	TRACK CHAIN LOWER 5/8" MD 973X36.7X20	2

1M002846	LVL 2 - LIFT1 ONLY - 25 - (250kg - STD) *(ML 250KG)*	
PART #:	DESCRIPTION:	QTY:
7774501171	TRAY IN BAY DETECTION SWITCH NFB110CH-SMK	2
1M007714	KIT PAWL REPLACEMENT 1/2" LIFT	4
3362586002	IDLER SPROCKET GROUP FOR 250Kg ELEVATOR	8
80107872	CHAIN 1/2" L 1930.4 D6.36	2
8125169900	TRACK CHAIN UPPER 1/2" L 863X21X19.4	2
8125169700	TRACK CHAIN LOWER 1/2" M 793X36.7X20	2

1M002851	LVL 2 - LIFT1 ONLY - 50/75 - (500kg/750kg - STD) *(ML 250KG)*	
PART #:	DESCRIPTION:	QTY:
7774501171	POSITION MICRO SWITCH 1NA 2NC NFB110CH-SMK	2
1M001111	KIT PAWL REPLACEMENT 5/8" LIFT	4
3362586003	IDLER SPROCKET GROUP FOR 500Kg /750kg	8
8149021800	EXTRACTOR CHAIN 5/8 L 1968.5	2
8125170000	TRACK CHAIN UPPER 5/8" L 863X27.1X18.5	2
8125169800	TRACK CHAIN LOWER 5/8" M 770X36.7X20	2

1M002944	LVL 2 - LIFT1 ONLY - 1000 - ONETON - (1000Kg - STD)	
PART #:	DESCRIPTION:	QTY:
7774501171	POSITION MICRO SWITCH 1NA 2NC NFB110CH-SMK	2
1M001111	KIT PAWL REPLACEMENT 5/8" LIFT	4
1M001543	GEAR GRP ONE TON	8
8149021800	EXTRACTOR CHAIN 5/8 L 1968.5	2
8125170000	TRACK CHAIN UPPER 5/8" L 863X27.1X18.5	2
8125169800	TRACK CHAIN LOWER 5/8" M 770X36.7X20	2

NOTES:

ML & MLD 250kg that were produced from JULY 2020 and later require the 500kg/750kg KIT 2B

This is because the ML/MLD 250kg extractor is so wide, that any deviation in chain stretching from left to right, placed too much stress on the 1/2" chain system, resulting in a failure.

The ML/MLD 250kg extractors produced from JULY 2020 & later use the 5/8" system.

This does not apply to the ME/MED MA/MAD MC/MCD MX/MXD 250kg machines. Those units still require the 1/2" kit

LIFT 2.0

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LEVEL 2	PM KIT_2B - CHAINS, PAWLS, SPROCKETS, DOOR components (if present)	45,000 MISSIONS

D0900985700	LVL 2 - LIFT2 ONLY - 25D - (250kg - DEEP) *(MLD 250KG)*	
PART #:	DESCRIPTION:	QTY:
70002857	POS. SWITCH NF B110BB-SMK PIZZATO	2
1M007714	KIT PAWL REPLACEMENT 1/2" LIFT	4
3362586002	IDLER SPROCKET GROUP FOR 250Kg ELEVATOR	8
80107870	CHAIN 1/2" LD L 2336.8 D6.36	2
8125170800	TRACK CHAIN UPPER 1/2" LD 1066X21X19.4	2
8125170600	TRACK CHAIN LOWER 1/2" MD 996X36.7X20	2

D0900985900	LVL 2 - LIFT2 ONLY - 50D/75D - (500kg/750kg - DEEP) *(MLD 250KG*	
PART #:	DESCRIPTION:	QTY:
70002857	POS. SWITCH NF B110BB-SMK PIZZATO	2
1M001111	KIT PAWL REPLACEMENT 5/8" LIFT	4
3362586003	IDLER SPROCKET GROUP FOR 500Kg /750kg	8
8149021900	EXTRACTOR CHAIN 5/8 LD 2381.25	2
8125170900	TRACK CHAIN UPPER 5/8" LD 1066X27.1X18.5	2
8125170700	TRACK CHAIN LOWER 5/8" MD 973X36.7X20	2

D0900986100	LVL 2 - LIFT2 ONLY - 1000D - ONETON - (1000kg - DEEP)	
PART #:	DESCRIPTION:	QTY:
70002857	POS. SWITCH NF B110BB-SMK PIZZATO	2
1M001111	KIT PAWL REPLACEMENT 5/8" LIFT	4
1M001543	GEAR GRP ONE TON	8
8149021900	EXTRACTOR CHAIN 5/8 LD 2381.25	2
8125170900	TRACK CHAIN UPPER 5/8" LD 1066X27.1X18.5	2
8125170700	TRACK CHAIN LOWER 5/8" MD 973X36.7X20	2

D0900985800	LVL 2 - LIFT2 ONLY - 25 - (250kg - STD) *(ML 250KG)*	
PART #:	DESCRIPTION:	QTY:
70002857	POS. SWITCH NF B110BB-SMK PIZZATO	2
1M007714	KIT PAWL REPLACEMENT 1/2" LIFT	4
3362586002	IDLER SPROCKET GROUP FOR 250Kg ELEVATOR	8
80107872	CHAIN 1/2" L 1930.4 D6.36	2
8125169900	TRACK CHAIN UPPER 1/2" L 863X21X19.4	2
8125169700	TRACK CHAIN LOWER 1/2" M 793X36.7X20	2

D0900986000	LVL 2 - LIFT2 ONLY - 50/75 - (500kg/750kg - STD) *(ML 250KG)*	
PART #:	DESCRIPTION:	QTY:
70002857	POS. SWITCH NF B110BB-SMK PIZZATO	2
1M001111	KIT PAWL REPLACEMENT 5/8" LIFT	4
3362586003	IDLER SPROCKET GROUP FOR 500Kg /750kg	8
8149021800	EXTRACTOR CHAIN 5/8 L 1968.5	2
8125170000	TRACK CHAIN UPPER 5/8" L 863X27.1X18.5	2
8125169800	TRACK CHAIN LOWER 5/8" M 770X36.7X20	2

D0900986200	LVL 2 - LIFT2 ONLY - 1000 - ONETON - (1000Kg - STD)	
PART #:	DESCRIPTION:	QTY:
70002857	POS. SWITCH NF B110BB-SMK PIZZATO	2
1M001111	KIT PAWL REPLACEMENT 5/8" LIFT	4
1M001543	GEAR GRP ONE TON	8
8149021800	EXTRACTOR CHAIN 5/8 L 1968.5	2
8125170000	TRACK CHAIN UPPER 5/8" L 863X27.1X18.5	2
8125169800	TRACK CHAIN LOWER 5/8" M 770X36.7X20	2

NOTES:

ML & MLD 250kg that were produced from JULY 2020 and later require the 500kg/750kg KIT 2B

This is because the ML/MLD 250kg extractor is so wide, that any deviation in chain stretching from left to right, placed too much stress on the 1/2" chain system, resulting in a failure.

The ML/MLD 250kg extractors produced from JULY 2020 & later use the 5/8" system.

This does not apply to the ME/MED MA/MAD MC/MCD MX/MXD 250kg machines. Those units still require the 1/2" kit

LIFT 1.0 ONLY

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LEVEL 2	PM KIT_3 - EXTERNAL BAY COMPONENTS: SLIDES, ADJUSTER/IDLER SPROCKET, EXTERNAL TIMING BELT, SWITCHES	45,000 MISSIONS

TUV - JAN 2011 AND BEYOND

1M002960 — LVL 2 - LIFT1 ONLY - 25/50/75 TUV - EXT BAY - DUAL - DEEP

PART #:	DESCRIPTION:	QTY:
3362524554	LH SIDE LOADING BAY ASSEMBLY GRP H850	2
3362524555	RH SIDE LOADING BAY ASSEMBLY GRP H850	2
9143981659	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000683	2ND LOADING BAY BELT TENSIONING PULLEY	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2

1M002850 — LVL 2 - LIFT1 ONLY - 25/50/75 TUV - EXT BAY - DUAL - STD

PART #:	DESCRIPTION:	QTY:
3362524550	LH SIDE LOADING BAY ASSEMBLY GRP H650	2
3362524551	RH SIDE LOADING BAY ASSEMBLY GRP H650	2
9143981659	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000683	2ND LOADING BAY BELT TENSIONING PULLEY	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2

1M002959 — LVL 2 - LIFT1 ONLY - 25/50/75 TUV - EXT BAY - SINGLE - DEEP

PART #:	DESCRIPTION:	QTY:
3362524554	LH SIDE LOADING BAY ASSEMBLY GRP H850	1
3362524555	RH SIDE LOADING BAY ASSEMBLY GRP H850	1
9143981659	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000683	2ND LOADING BAY BELT TENSIONING PULLEY	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2
1M000684	EXTERNAL BAY PULLEY ASSEMBLY LIFT1 ONLY -	2

1M002849 — LVL 2 - LIFT1 ONLY - 25/50/75 TUV - EXT BAY - SINGLE - STD

PART #:	DESCRIPTION:	QTY:
3362524550	LH SIDE LOADING BAY ASSEMBLY GRP H650	1
3362524551	RH SIDE LOADING BAY ASSEMBLY GRP H650	1
9143981659	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000683	2ND LOADING BAY BELT TENSIONING PULLEY	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2
1M000684	EXTERNAL BAY PULLEY ASSEMBLY LIFT1 ONLY -	2

1M002949 — LVL 2 - ONETON TUV - EXT BAY - DUAL - DEEP

PART #:	DESCRIPTION:	QTY:
1M000777	BAY GRP BC SIDES LH OT - 850	2
1M000778	BAY GRP BC SIDES RH OT - 850	2
9143981659	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000780	BAY GRP BE IDLER PULLEY UPPER OT	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2

1M002947 — LVL 2 - ONETON TUV - EXT BAY - DUAL - STD

PART #:	DESCRIPTION:	QTY:
1M000775	BAY GRP BC SIDES LH OT - 650	2
1M000776	BAY GRP BC SIDES RH OT - 650	2
9143981659	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000780	BAY GRP BE IDLER PULLEY UPPER OT	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2

1M002948 — LVL 2 - ONETON TUV - EXT BAY - SINGLE - DEEP

PART #:	DESCRIPTION:	QTY:
1M000777	BAY GRP BC SIDES LH OT - 850	1
1M000778	BAY GRP BC SIDES RH OT - 850	1
9143981659	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000780	BAY GRP BE IDLER PULLEY UPPER OT	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2
1M000781	BAY GRP BE PULLEY OT	2

1M002946 — LVL 2 - ONETON TUV - EXT BAY - SINGLE - STD

PART #:	DESCRIPTION:	QTY:
1M000775	BAY GRP BC SIDES LH OT - 650	1
1M000776	BAY GRP BC SIDES RH OT - 650	1
9143981659	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000780	BAY GRP BE IDLER PULLEY UPPER OT	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2
1M000781	BAY GRP BE PULLEY OT	2

NO TUV - PRIOR TO LATE JAN 2011

1U000077 — LVL 2 - LIFT1 ONLY - LIFT1 ONLY - 25/50/75 NO TUV - EXT BAY - DUAL

PART #:	DESCRIPTION:	QTY:
3362522034	GR. B.C. LATO SX 850 MOD.08	2
3362522036	GR. B.C. LATO DX 850 MOD.08	2
9143981659	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000683	2ND LOADING BAY BELT TENSIONING PULLEY	2

1U000076 — LVL 2 - LIFT1 ONLY - 25/50/75 NO TUV - EXT BAY - DUAL - STD

PART #:	DESCRIPTION:	QTY:
3362522033	GR. B.C. LATO SX 650 MOD.08	2
3362522035	GR. B.C. LATO SX 650 MOD.08	2
9143981659	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000683	2ND LOADING BAY BELT TENSIONING PULLEY	2

1U000074 — LVL 2 - LIFT1 ONLY - 25/50/75 NO TUV - EXT BAY - SINGLE - DEEP

PART #:	DESCRIPTION:	QTY:
3362522034	GR. B.C. LATO SX 850 MOD.08	1
3362522036	GR. B.C. LATO DX 850 MOD.08	1
9143981659	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000683	2ND LOADING BAY BELT TENSIONING PULLEY	2
1M000684	EXTERNAL BAY PULLEY ASSEMBLY	2

1U000075 — LVL 2 - LIFT1 ONLY - 25/50/75 NO TUV - EXT BAY - SINGLE - STD

PART #:	DESCRIPTION:	QTY:
3362522033	GR. B.C. LATO SX 650 MOD.08	1
3362522035	GR. B.C. LATO SX 650 MOD.08	1
9143981659	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000683	2ND LOADING BAY BELT TENSIONING PULLEY A	2
1M000684	EXTERNAL BAY PULLEY ASSEMBLY	2

NOTES:

LIFT 2.0

V5.1 - AUG - 23

LEVEL 2	PM KIT_3 - EXTERNAL BAY COMPONENTS: SLIDES, IDLER SPROCKET, EXT TIMING BELT, SWITCHES	45,000 MISSIONS

D0900986500	LVL 2 - LIFT2 ONLY - 25/50/75 - EXT BAY - DUAL - DEEP	
PART #:	DESCRIPTION:	QTY:
3362524554	LH SIDE LOADING BAY ASSEMBLY GRP H850	2
3362524555	RH SIDE LOADING BAY ASSEMBLY GRP H850	2
90013539	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000683	2ND LOADING BAY BELT TENSIONING PULLEY	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2

D0900986600	LVL 2 - LIFT2 ONLY - 25/50/75 - EXT BAY - DUAL - STD	
PART #:	DESCRIPTION:	QTY:
3362524550	LH SIDE LOADING BAY ASSEMBLY GRP H650	2
3362524551	RH SIDE LOADING BAY ASSEMBLY GRP H650	2
90013539	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000683	2ND LOADING BAY BELT TENSIONING PULLEY	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2

D0900986700	LVL 2 - LIFT2 ONLY - 25/50/75 - EXT BAY - SINGLE - DEEP	
PART #:	DESCRIPTION:	QTY:
3362524554	LH SIDE LOADING BAY ASSEMBLY GRP H850	1
3362524555	RH SIDE LOADING BAY ASSEMBLY GRP H850	1
90013539	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000683	2ND LOADING BAY BELT TENSIONING PULLEY	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2
1M000684	EXTERNAL BAY PULLEY ASSEMBLY LIFT	2

D0900986800	LVL 2 - LIFT2 ONLY - 25/50/75 - EXT BAY - SINGLE - STD	
PART #:	DESCRIPTION:	QTY:
3362524550	LH SIDE LOADING BAY ASSEMBLY GRP H650	1
3362524551	RH SIDE LOADING BAY ASSEMBLY GRP H650	1
90013539	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000683	2ND LOADING BAY BELT TENSIONING PULLEY	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2
1M000684	EXTERNAL BAY PULLEY ASSEMBLY LIFT	2

D0900986900	LVL 2 - LIFT2 ONLY - 1000 - EXT BAY - DUAL - DEEP	
PART #:	DESCRIPTION:	QTY:
1M000777	BAY GRP BC SIDES LH OT - 850	2
1M000778	BAY GRP BC SIDES RH OT - 850	2
90013539	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000780	BAY GRP BE IDLER PULLEY UPPER OT	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2

D0900987000	LVL 2 - LIFT2 ONLY - 1000 - EXT BAY - DUAL - STD	
PART #:	DESCRIPTION:	QTY:
1M000775	BAY GRP BC SIDES LH OT - 650	2
1M000776	BAY GRP BC SIDES RH OT - 650	2
90013539	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000780	BAY GRP BE IDLER PULLEY UPPER OT	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2

D0900987100	LVL 2 - LIFT2 ONLY - 1000 - EXT BAY - SINGLE - DEEP	
PART #:	DESCRIPTION:	QTY:
1M000777	BAY GRP BC SIDES LH OT - 850	1
1M000778	BAY GRP BC SIDES RH OT - 850	1
90013539	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000780	BAY GRP BE IDLER PULLEY UPPER OT	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2
1M000781	BAY GRP BE PULLEY OT	2

D0900987200	LVL 2 - LIFT2 ONLY - 1000 - EXT BAY - SINGLE - STD	
PART #:	DESCRIPTION:	QTY:
1M000775	BAY GRP BC SIDES LH OT - 650	1
1M000776	BAY GRP BC SIDES RH OT - 650	1
90013539	BELT TIMING AT10 25W 1600L DOUBLE	2
1M000780	BAY GRP BE IDLER PULLEY UPPER OT	2
7774501170	POS. MICRO SWITCH NFB210CH-SMK PIZZATO	2
1M000781	BAY GRP BE PULLEY OT	2

NOTES:

LIFT 1.0

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LEVEL 2	PM KIT_4 - AUTOMATIC DOOR COMPONENTS	45,000 MISSIONS

1M002847	LVL 2 - LIFT1 & LIFT2 - ALL MODEL - DOOR - S	
PART #:	DESCRIPTION:	QTY:
70002941	POSITION MICRO SWITCH NFB110BB-DMK	2
9143981799	BELT TIMING T5 25W	3M
8125169400	BAY DOOR GUIDE PROFILE HABASIT LK20	2

NOTES:
LIFT 1.0 Only has the "S" door which is 695mm tall
The "S" door is the same for LIFT1 & LIFT2

NOTES:

LIFT 2.0

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LEVEL 2	PM KIT_4 - AUTOMATIC DOOR COMPONENTS	45,000 MISSIONS

1M002847	LVL 2 - LIFT1 & LIFT2 - ALL MODEL - DOOR - S	
PART #:	DESCRIPTION:	QTY:
70002941	POSITION MICRO SWITCH NFB110BB-DMK	2
9143981799	BELT TIMING T5 25W	3M
8125169400	BAY DOOR GUIDE PROFILE HABASIT LK20	2

D0900986300	LVL 2 - LIFT2 ONLY - ALL MODEL - DOOR - M	
PART #:	DESCRIPTION:	QTY:
70002941	POSITION MICRO SWITCH NFB110BB-DMK	2
9143981799	BELT TIMING T5 25W	4M
80033941	GUIDE PROFILE FOR HABASIT SLIDE DOOR LK2	2

D0900986400	LVL 2 - LIFT2 ONLY - ALL MODEL - DOOR - XL	
PART #:	DESCRIPTION:	QTY:
70002941	POSITION MICRO SWITCH NFB110BB-DMK	2
9143981799	BELT TIMING T5 25W	5M
80057360	GUIDE PROFILE FOR SLIDING DOTT HABASIT L	2

NOTES: