PROGRAMMING (Ver:1.0x)
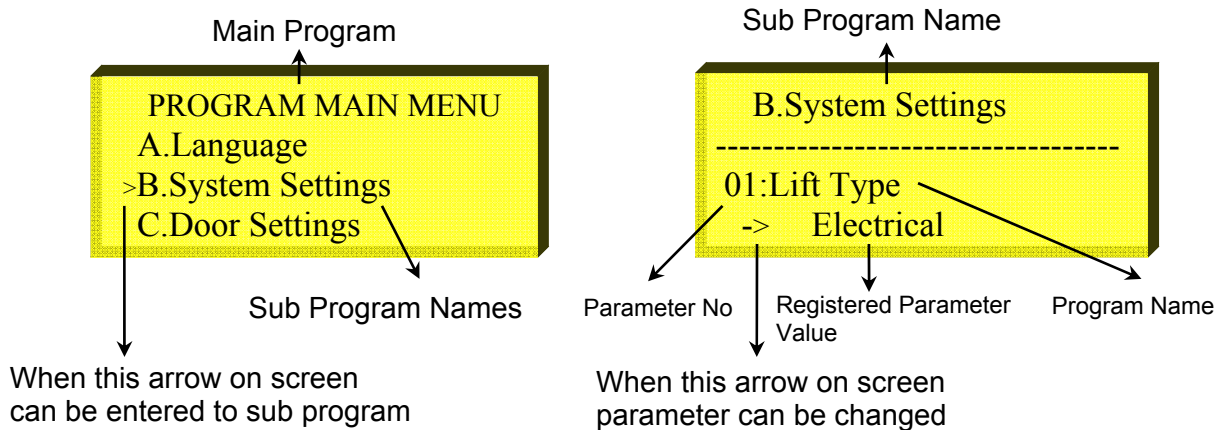
- When the lift is stand by position, by pressing ENTER button for 2 seconds, programming mode starts.

Main Program

Sub Program Name

```
 PROGRAM MAIN MENU
  A.Language
 >B.System Settings
  C.Door Settings
```

Sub Program Names

```
    B.System Settings
 -------------------------------------
  01:Lift Type
    ->    Electrical
```

Parameter No   Registered Parameter   Program Name
                Value

When this arrow on screen
can be entered to sub program

When this arrow on screen
parameter can be changed

- You can choose sub program by using UP and DOWN buttons.
- To exit the programming mode ESC button in the main menu is used, "ENTER to ExitProgram" is displayed on LCD screen. Press ENTER button and exit the programming mode; to return the main menu again press ESC button.
- When ENTER button in the main menu is pressed, the sub program which has arrow on the screen starts. And you can select the sub program with ENTER button again.
- If the program has parameter, an arrow appears at the beginning of the fourth line of LCD screen. You can change the parameter value by using UP and DOWN buttons. To store the value, press the ENTER button and return the menu. By pressing the ESC button the registered value is valid and you can return the sub menu.

PARAMETERS

Program	Factory Set	Parameters / Explanations
A.Language		
A.Language	Turkce	Turkce, English, Pусскnñ
B.System Settings		
01:Lift Type	Electrical	Electrical Hydraulic Gearless
02:Command Type	OneBt.TwoWayColl.	OneBt.OneWayColl. *(There is one button on the floors in this command type. If this button connected to which direction, floor calls are collective at that direction. Car calls are collective in both directions)* OneBt.TwoWayColl. *(There is one button on the floors in this command type. If this button connected to which direction, floor calls are collective in both directions. Car calls are collective in both directions)* SelectiveCollect *(Car calls are collective in both directions, floor down calls are collective in down direction, floor up calls are collective in up direction)*

03:Number Of Floor	16	2-32
04:Car Lamp Time	5 seconds	1-20 seconds *(The duration of car lamp ON)*
05:Lock Wait Time	15 seconds	5-25 seconds *(After CAM energized waiting time for lock signal)*
06:Maximum HighSpeed	15 seconds	10-100 seconds *(Max moving time at high speed between two floors)*
07:Maximum Low Speed	10 seconds	5-100 seconds *(Max moving time at low speed)*
08:Parking Time	30 seconds	10-100 seconds *(On stand-by, time of moving to park floor)*
09:Park Floor	Passive	Passive, 0,1,..31 *(On stand-by, park floor to go)*
10:Fire Floor	Passive	Passive, 0,1,..31 *(Target floor when detecting fire warning signal)*
11:Stop Delete Calls	Passive	Passive, Active *(When pressed the stop button if the parameter value is passive, car calls are kept in the memory and vice versa)*
12:Group ID Select	Passive	Passive A Panel B Panel C Panel D Panel
13:R-S-T Phase Ctrl	Without Sequence	Passive Without Sequence Sequential (50Hz) Sequential (60Hz)
14:Motor PTC Control	Active	Passive, Active
15:Phase AcceptLevel	50	0-100 *(It can be controlled phase level sensitivity, when the parameter value is increased it can be accepted existing phases if their voltage levels are low)*
16:RX Delay Time	Passive	Passive, 10-5000 ms *(In speed control systems, when limit switch is on, selection of stripping distance)*
17:Inspect.Move Type	To Limit Switch	To Limit Switch *(In inspection mode, car is moved to up and down limit switches)* To Exact Floor *(In inspection mode, car is moved to up and down floor levels)*
18:Star-TriangleTime	400 ms	Passive, 10-5000 ms *(Selection of star-triangle relay (RT) convert time for hydraulic lifts)*
19:Motor-Valve Time	400 ms	Passive, 10-5000 ms *(Motor run time after the valves closed for hydraulic lifts)*
20:Hyd. Re-levelling	Passive	Passive, Active *(If this parameter selected active, it is allowed re-levelling for hydraulic lifts)*
21:Position Reset	Passive	Passive, Active *(After the power off, when the card is energized, the car is moved to floor which has down limit bi-stable switch)*

22:Maximum Car Calls	8	1-24 *(Maximum car calls accepted in the cabin)*
23:Stop Function	Only Stop	Only Stop *(When stop (120) signal is cut, only lift is stopped; no operation is done about the car calls. End of the floor wait time, back to the normal working position)* Hold Calls *(When stop (120) signal is cut, all car calls are registered and lift is stopped. After the stop signal, wait for any car call. After the car call, registered calls and the new call is collated and back to the normal working position)*
24:Top Less Floor	Passive	Passive, 1,2,..5 *(In doublex working, up direction missing floor number of one of the lifts)*
25:Lower Less Floor	Passive	Passive, 1,2,..5 *(In doublex working, down direction missing floor number of one of the lifts)*
26:Gray Binary Start	0	0,1,..5 *(At the up missing floor lifts, selection of the starting number of gray-code or binary output)*
27:Car Call Cancel	Passive	Passive, Active *(If this parameter is selected active, accepted call by pressing the button inside the car is canceled by pressing this button once again)*
28:Car Card Select	KABIN-R & KABIN-K	KABIN-R & KABIN-K SERI65 & INT65 *(Selection of car communication cards)*
29:Floor Detection	Active	M0 Pulse 2 Magnet M0 Pulse 4 Magnet M0/M1 Pulse Encoder
30:OSG/Brake Control	Passive	Passive, Active Cancel A3 (Puk:000000) *(At geary machine systems, over speed governor selenoid control card MLA3 must be used. <u>If it is used for the lifts that is not suitable to En81-1/2 + A3 standards,</u> to do this parameter "passive", ML70S user must declear to our firm with writings and must accept the responsibility)*
31:Elect. Re-levell.	Passive	Passive, Active *(If needed re-levelling, this parameter is chosen active and MLKR1 door bridging card must be used)*
32:Evacuation Floor	Passive	Passive, Active *(If panic input detected, floor that the car will be parked)*
	C.Door Settings	
01:A DoorTypeSetting	Floor 00 CarDoor	*(For each floor, A side door type can be set one by one and can be set at the same time)*
02:B DoorTypeSetting	Floor 00 NoDoor	*(For each floor, B side door type can be set one by one and can be set at the same time)*
03:Door A Limit Type	Without Limit	With Limit, Without Limit *(Limit type selection of A side door mechanism)*
04:Door B Limit Type	Without Limit	With Limit, Without Limit *(Limit type selection of B side door mechanism)*
05:Door A Relay Set	MLKABINR RA/RK	ML70S RA/RK, MLKABIN-R RA/RK, MLKABIN-R ER2/ER1 *(Selection of A side door open/close signals that will be connected to which relays)*

06:Door B Relay Set	MLKABIN-R ER2/ER1	ML70S RA/RK, MLKABIN-R RA/RK, MLKABIN-R ER2/ER1 *(Selection of B side door open/close signals that will be connected to which relays)*
07:Wait AtFloor Time	5 seconds	1-99 seconds *(At full automatic door systems, stay opened time of automatic door; at only indoor systems, if the door doesn't open after the car stopped, selection the time of the next call)*
08:PhotocellBlockT.	Passive	Passive, 1,2,..99 seconds *(Selection the time of cutting photocell signal and starting the nudging signal)*
09:DoorOpenInsp.Time	180 seconds	10-180 seconds *(When the door stayed open, selection the time of warning)*
10:CloseButton Delay	2 seconds	Passive, 1,2,..20 seconds *(Delay time of close buton detection)*
11:Advanced DoorOpen	Passive	Passive, Active
12:Dir.-OpenD. Style	Passive	Passive, Active *(If parameter value is passive, when the direction arrows are on, the same floor call is not imported. If parameter value is active, when the direction arrows are on and if the same floor call is come, the automatic door is opened)*
13:Auto.DoorWaitOpen	Passive	Passive, Active (Puk:000000) *(At full automatic door lifts, selection of waiting the door opened. <u>This situation is not suitable to En81-1/2 + A3 standards.</u> To do this parameter active, ML70S user must declear to our firm with writings and must accept the responsibility)*

D.Display Settings

01:FloorDisplay Sets	Floor 00 Disp 0	Floor 00-23 Disp 0-19,1A,1b,1c,1d *(Display datas that will be screened on floors are changed)*
02:Dir. Arrow Type	Type 1	Type 1 Type 2 Type 3 Type 4 *(Selection of direction arrow types on MLKAT-D card)*
03:Dir.ArrowShiftSp.	Normal	Normal Slow Very Slow No Shift Very Fast Fast *(Selection of direction arrow shift speed on MLKAT-D card)*
04:ArticleShiftSpeed	Normal	Normal Slow Very Slow Very Fast Fast *(Selection of article shift speed on MLKAT-D card)*
05:OUTofSERVICE Apx.	No Appendix	No Appendix … (FLOOR =1) … (FAULT – 2) *(Selection of appendix that will added to (OUT OF SERVICE) article end on MLKAT-D card)*
06:Floor Display Set	Passive	Passive, Active

E.PrgrammableInputs

(Programmable Inputs Sub Section)

	Factory Settings for Electrical Lifts	*Factory Settings for Hydraulic Lifts*
01:ML70S-EIN1	MLKS10-EXO1	Not Used
02:ML70S-EIN2	MLKS10-EXO2	Not Used
03:ML70S-EIN3	Down Re-levelling	Not Used
04:ML70S-EIN4	Up Re-levelling	Not Used
05:ML70S-EIN5	Not Used	141 (Fixed)
06:ML70S-EIN6	Fire	Fire
07:ML70S-EIN7	Earthquake	Earthquake
08:ML70S-EIN8	Not Used	Not Used
09:ML70S-EIN9	Not Used	Not Used
10:ML70S-EIN10	142 Floor Stopper	142 (Fixed)
11:ML70S-EIN11	M0 Pulse	M0 Pulse
12:ML70S-EIN12	M1 Pulse	M1 Pulse
13:MLKABIN-R-EIN1	K16 Open Limit-A	K16 Open Limit-A
14:MLKABIN-R-EIN2	K19 Close Limit-A	K19 Close Limit-A
15:MLKABIN-R-EIN3	Down Re-levelling	Not Used
16:MLKABIN-R-EIN4	Up Re-levelling	Not Used
17:MLKABIN-R-EIN5	Full Load	Full Load
18:MLKABIN-A1-EIN1	Not Used	Not Used
19:MLKABIN-A1-EIN2	Not Used	Not Used
20:MLKABIN-A2-EIN1	Not Used	Not Used
21:MLKABIN-A2-EIN2	Not Used	Not Used
22:MLKABIN-B1-EIN1	Not Used	Not Used
23:MLKABIN-B2-EIN2	Not Used	Not Used
24:MLKABIN-B2-EIN1	Not Used	Not Used
25:MLKABIN-B2-EIN2	Not Used	Not Used
26..57:MLKATD0..31-A-EIN	Not Used	Not Used
58..89:MLKATD0..31-B-EIN	Not Used	Not Used

Assignable Functions

1- MLKS10-EXO1 (MLKS10 communication input 1)
2- MLKS10-EXO2 (MLKS10 communication input 2)
3- Down Re-levelling (Down re-levelling input)
4- Up Re-levelling (Up re-levelling input)
5- Fire (Fire input)
6- Earthquake (Earthquake input)
7- Driver Fault (Inverter fault input at UPS evacuation)
8- Change Direction (Change direction input at UPS evacuation)
9- StarTriangleStart (Star-Triangle starting input)
10- 819 Limit Switch
11- 820 Limit Switch
12- Overload (Overload contact)
13- Full Load (Full load contact)
14- Fireman (Fireman key input)
15- Panic (Panic button input)
16- Vatman (Vatman key input)
17- K16 Open Limit-A (A door open limit input)
18- K19 Close Limit-A (A door close limit input)
19- Open-B (B door open limit input)
20- Close-B (B door close limit input)
21- K16 Open Limit-B (B door open limit input)
22- K19 Close Limit-B (A door close limit input)
23- Photocell-A (A door photocell input)
24- Photocell-B (B door photocell input)
25- M0 Pulse
26- M1 Pulse
27- JF Levelling Sw.

F.Programm. Outputs
(Programmable Outputs Sub Section)

	Factory Settings for Electrical Lifts	Factory Settings for Hydraulic Lifts
01:ML70S-RY	Re-levellingSpeed	Not Assigned (Motor-Valve Auxiliary Relay)
02:ML70S-RT	Inspection (It can be set at KS10 rescue)	Not Assigned (Star-Triangle Relay)
03:ML70S-RB	Ups Contactor	Not Assigned (When ML65X-EIN4 input is selected Star-Triangle start, relay that is dropped while there is this input)
04:ML70S-RLIR	Lirpomp	Lirpomp
05:ML70S-OUT1	Gong	Gong
06:ML70S-OUT2	Middle Speed 1	Hyd.Re-lev. Motor
07:ML70S-RA	Not Used	Not Used
08:ML70S-RK	Not Used	Not Used
09:MLKABIN-R-EO1	Nudging	Nudging
10:MLKABIN-R-RA	Fixed !	Fixed !
11:MLKABIN-R-RK	Fixed !	Fixed !
12:MLKABIN-R-RE1	Fixed !	Fixed !
13:MLKABIN-R-RE2	Fixed !	Fixed !
14:MLKABIN-K-A1-EO1	Gray-Code M0	Gray-Code M0
15:MLKABIN-K-A1-EO2	Gray-Code M1	Gray-Code M1
16:MLKABIN-K-A1-EO3	Gray-Code M2	Gray-Code M2
17:MLKABIN-K-A1-EO4	Gray-Code M3	Gray-Code M3
18:MLKABIN-K-A1-EO5	Overload	Overload
19:MLKABIN-K-A1-EO6	Inspection	Inspection
20:MLKABIN-K-A1-EO7	Down Arrow	Down Arrow
21:MLKABIN-K-A1-EO8	Up Arrow	Up Arrow
22..29: MLKABIN-K-A2-EO1..8	Not Used	Not Used
29..37: MLKABIN-K-B1-EO1..8	Not Used	Not Used
38..45: MLKABIN-K-B2-EO1..8	Not Used	Not Used
45..77:MLKAT-D0..31-A-EO	Not Used	Not Used
78..A9:MLKAT-D0..31-B-EO	Not Used	Not Used
B0:MLSERI65-GCx	Gray-Code	Gray-Code

Assignable Functions

1- Inspection
2- Car Lamp
3- Re-levellingSpeed (Re-levelling speed output at electrical lifts)
4- Ups Contactor (UPS-Inverter contactor at UPS rescue)
5- Gong
6- Hyd.Re-lev. Motor (Lower power motor output at re-levelling in hydraulic lifts)
7- Middle Speed (Output when the target floor is the nearest floor at electrical lifts)
8- Gray-Code M0
9- Gray-Code M1
10- Gray-Code M2
11- Gray-Code M3
12- Gray-Code M4
13- Binary M0
14- Binary M1
15- Binary M2
16- Binary M3
17- Binary M4
18- Nudging (At full automatic door lifts, output at the end of photocell blocking time)
19- At Floor Signal
20- Up Arrow
21- Down Arrow
22- Fault (Inverse) (At normal position, there is always output; at fault position, output is cut off)
23- Overload
24- Out Of Service
25- Lirpomp
26- Middle Speed 2

G.Maintenance Sets

01:Next Maintenance	01.01.2013	*(Setting of next maintenance date)*
02:At Maint.Date End	Only Warn	Only Warn Block The Lift
03:Reset Run Number	No	Yes, No *(After the maintenance, total run is reset)*
04:Delete Faults ?	No	Yes, No

H.Evacuation Sets

01:Evacuation Type	Evacuate WithKS10	Evacuate WithKS10 Evacuate With UPS Gearless WithVVVF *(At gearless machine systems, rescue operation with VVVF motor control)* GearlessWithBrake *(At gearless machine systems, rescue operation with openning brake only)*
02:Evacuation Delay	5 seconds	1-15 seconds *(After the detection of main power is cut, selection of waiting time to start the rescue operation)*
03:EvacuationMaxTime	40 seconds	10-200 seconds *(Selection of maximum movement time at rescue)*
04:Evacu.JF MoveTime	Passive	Passive, 0,1-10,0 seconds *(At rescue operation, after the detection of JF, selection of needed time to re-levelling)*

I.Shaft Learning

01:Learn Shaft	No	Yes, No *(If this parameter is chosen "Yes", shaft learning procedure is started)*
02:Hi.SpeedSlowDist.	120 cm	10-500 cm *(Starting distance selection of passing from the high speed to slow speed to the exact floor)*
03:Mid.Spd.SlowDist.	80 cm	10-500 cm *(Starting distance selection of passing from the high speed to slow speed when going to the nearest floor at high speed lifts)*
04:LowSpeedStopDist.	70 mm	1-200 mm *(While approaching to the target floor, selection of cutting distance of low speed signal)*
05:Dist.ToMidd.Speed	60 cm	1-500 cm *(To give the high speed signal, selection of the nearest floor minimum distance)*
06:Reader Lenght	30 cm	
07:817 Position	Between 0-1 Floor	Between 0-1 Floor Between 1-2 Floor *(Selection position of 817 lower limit switch)*
08:Up Level Correct	Floor 01 00mm	Floor 01-31, For All -99, 0, 99mm *(Selection of precision levelling adjustment for each floor on up direction)*
09:DownLevel Correct	Floor 00 00mm	Floor 00-30, For All -99, 0, 99mm *(Selection of precision levelling adjustment for each floor on down direction)*

10:Floor Heights	Floor 00= 0mm	Floor 00-15, -99, 0, 99mm *(After the shaft learning, tracing the floor heights that measured)*
11:CalculateDistance	Passive	Passive, Active *(For explanation, please look user manual)*
12:SlowingDistance3	50 cm	50-200 cm *(For explanation, please look user manual)*
13:Correction Mode	Passive	Floor 00-15, -99, 0, 99mm *(For explanation, please look user manual)*

J.General Settings

01:Factory Sets ?	No	Yes, No *(All parameter values are changed into factory settings)*
02:Clock Setting	00:00	*(Setting the clock)*
03:Date Setting	01.01.2013	*(Setting the date)*
04:Auto Tuning	No	Yes, No *(If this parameter selected YES, at UP and DOWN direction first movement in inspection mode, OSG/Brake Control input is not watched during 180 seconds.)*
05:DeleteMLKR1Error?	No	Yes, No *(Stored faults info is deleted about MLKR1 card)*
06:Delete UCM Error?	No	Yes, No *(Stored faults info as a result of UCM is deleted)*
07:UCM Up Test	No	Yes, No
08:UCM Down Test	No	Yes, No
09:ResetTotalRunNum.	No	Yes, No
10:Change Password	0000	*(Changing password)*
11:Cancel Password ?	No	Yes, No *(Password is cancelled, new value is 0000)*
12:SaveToDatakey	No	Yes, No
13:Read Datakey	No	Yes, No
99:Version	1.01.00/01.01.2013	

K.Gong Settings

01:Car Gong	Passive	Passive, Active *(Selection of gong outputs on top of the car card passive or active)*
02:Floor Card Gongs	Passive	Passive, Active *(Selection of gong outputs on floor card passive or active)*
03:Gong Type	Single Sound	Single Sound (Single sound on up and down direction) Double Sound (Double sound on up and down direction) UpSingle,DownDbl. (Up direction single sound, down direction double sound) UpDbl.,DownSingle (Up direction double sound, down direction single sound) *(Selection of gong type on floor cards)*
04:Gong Ringing Time	When Car Stopped	When Car Stopped *(Gong signal when the car stopped)* While Car Slowing *(Gong signal when the car is slowing for the next floor)*