

# **MY-SAVER User Manual**





# Model : <u>MY-SAVER MEGA</u>

# Model : <u>MY-SAVER</u>

## SAING EI CORP.

https://www.mytorqtools.com

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### 1. Product specification introduction

Model	MY-SAVER	MY-SAVER MEGA	
Input Voltage	AC 115	V / 230V	
Input Frequency	50 - (	60Hz	
Input Current	6.3	3A	
Input Voltage	DC	40V	
Output Current	Мах	x 9A	
Output Power	360W		
Function Period	1s ON / 3s OFF		
Size	241 x 185 x 127(mm)		
Weight	3.4Kg		
	MY-SAVER3/5/7series		
DC screwdriver model:	MY-SAVER3 MINI series	MY-SAVER12 series	
	MY-SAVER3/5/7RA series		

#### 2. Appearance introduction

#### 2.1 Panel

- 1. OK signal LED
- 2. NG signal LED
- 3. OKALL signal LED
- 4. Four-digit-seven-segment display for torque value
- 5. ESC button (Return/Leave/Enter setting mode)
- 6. Up 
   Down 
   Left 
   Right buttons

- 7. Start signal LED
- 8. Reverse signal LED
- 9. Disable signal LED
- 10. 16X4 LCM display setting function
- 11. Enter button (Select/Confirm)



Notice:

Bar code scanner: There will be a waiting time of 20 seconds when the controller is turned on, the controller has no scanner function during this time

### 2.2 Bottom



#### 2.3 Upper case



#### 2.4 LCM display function introduction



### **3** System setting method introduction

#### 3.1 Hot key function introduction

1.Left button: Press 3 seconds to return to the first job sequence after beep sound.
2.Down button: Press 3 seconds to return to the last job sequence after beep sound.
3.Up button: Press up and down button and release to view tool setting.
4.Right button: Press for 3 seconds to go to the next job sequence.

#### **3.2 Enter setting function page**

- 1. Press "ESC" button for 3 seconds to enter settings after beep sound
- 2. Input password and press Enter to enter settings
- 3. Follow below image to enter Control setting 
   Program setting 
   Screw setting 
   File
  management •

#### management ;

Press  $\mathbb{F}$  ESC  $_{\square}$  and back to status display page. Choose one of program

and press **Fenter** to the next page.





## 4. Control setting

Name	Set Up Time	Function Description	Default setting
	and Value		
Operation mode	STD/ADV	Connection mode. STD: Standalone mode. ADV: KL-AMS network system. (STD/ADV) connection mode.	STD
Device ID	001~250	Equipment No.	01
Tool Start Mode	Both/Push/Lever	Choose tool start mode.	Lever
Tool LED Mode	START/ON/OFF	Set tool LED on or off.	OFF
Edit Job's Seq	J: 01~50 JS: 01~50 TP: 00~99 TR: 00~99	Setup screw sequence and repeat. time in job project, save up to 50 projects. JS: display job sequence. TP: display tightening program. TR: display repeat times.	Job : 00 JS : 01 TP : 00 TR : 00
	Reverse button : CW/CCW Force level:0~9 RPM :	Remove the screw button settings: Forward (CW) and reverse (CCW) can be set Force Level : Number of force segments Force0(disable) \ 1~9(10%~100%) RPM : set to remove the screw speed	Reverse button setting : 1. Direction: CCW 2. Force Level:5 3. RPM : the lowest rpm (please
			of screwdriver)
Call Job	01~50	Select program	00
Factory Default	N/Y	Return to default status and remove all memory data.	Ν
Torque Unit	Kgf.cm/N.m /kgf.m /lbf.in	Set up torque display unit.	Kgf.cm
Gate Mode	None/Once/Twice	None: Function off. Once: Workpiece in position (Short signal.) Twice: Workpiece in/out position (Open signal).	None
OKALL Signal	ONCE/EACH	OKALL signal output method Once: Output OKALL signal after all sequences completed. OKALL signal output time depends on At setting. Each: Output OKALL signal after each sequence completed. OKALL signal output time depends on At setting.	ONCE
Save Job Barcode	1~50	"Scan job barcode "will show after pressing. After using scanner to scan barcode, it will save barcode into controller automatically. Setup sequence 1 to 50, it will switch to barcode sequence. Barcode length should not exceed 54 bits.	01
Barcode Setting	01~50 From : 01~54 Count : 01~54	Below steps will show you how to use certain section of a barcode to select/switch Job. Step 1. Determine the initial point of the section (01-20) Step 2. Determine section size (01-20) Step 3. Assign selected section to Job (01-50)	01 From : 01 Count : 01
Datch Mode	Decrease/Increase	Select count up or count down	Decrease



Controller Time	YYYY/MM/DD	Set up controller time	2018/01/01
	HH : MM : SS	Year/Month/Day/Hour/Minute	01:01:01
		/Second.	
Product Serial Number	S/N	Display device product serial number.	S/N
Change Password	0000~9999	Set up password lock	0000
Output Select	WIFI/LAN/RS-	Select data output from offline	RS-232
	232	to online	
Buzzer Mode	ON/OFF	Setup buzzer.	ON
Language Select	Chinese/	Select language	English
	English		_
Barcode Enable	OFF/ON	Turn on the barcode enable function and scan the	OFF
		barcode before starting to work or turn off the	
		function to start work without scan barcode.	
IP Address	LAN	STATIC: User can set a static IP address manually.	LAN : STATIC
	(STATIC/DHCP)	DHCP: An IP address assigned by network server	IP: 192.168.0.7
	IP	via router automatically.	Mask: 255,255,255,0
	Mask		Gateway '
	Gateway	Select manual setting and fill out an available IP	102 168 0 1
		address.	192.108.0.1
		IP : IP address	
		Mask : Subnet mask	
		Gateway : Default Gateway	
Start Signal Mode	Motor/Trigger	Duration of start signal when screwdriver is	Motor
		stopped.	
		Motor: The start signal disappears when	
		screwdriver is stopped.	
		Start signal : When the driver is stopped, the start	
		switch (press lever plate/ push down/ external	
		signal) is released. The start signal disappears	
		Motor : The start signal disappears when screwdriver is stopped. Start signal : When the driver is stopped, the start switch (press lever plate/ push down/ external signal) is released. The start signal disappears.	

## 5. Program setting

Name	Set Up Value	Function Description	Default setting
Tightening Step	001~250	Step can set the speed, target value (torque / time / number of turns)	01
Step Name	****	Setup program name, it can choose number	****
RPM		Setup rotation speed (According to screwdriver type	Please refer to the specification of screwdrivers
Option	Q/C	Setup tightening target	Force
Direction	CW/CCW	Setup rotation direction	CW
Delay Time	0.0~9.9	Setup interval time between screws	0.8
Target Thread	000.1~999.9	Setup target no. of thread	005.0
Target Torque		Setup target torque	Please refer to the specification of screwdrivers
Hi Torque	000.01~499.99	Setup max. torque value	Please refer to the specification of screwdrivers
Lo Torque	000.00~499.98	Setup min. torque value	000.00
Hi Thread	000.1~999.9	Setup max. thread value	999.9
Lo Thread	000.0~999.8	Setup min. thread value	000.0



## 6. Screw setting

Name	Set Up	Function Description	Default
INAIIIC	Value	Function Description	setting
Tightening Program	01~99	Setup screw parameter.	01
Screw Name	*****	Setup screw parameter name. It can choose	*****
		number <ul> <li>capitals and lower case letters  <ul> <li>number.</li> </ul> </li> </ul>	
Step 1	001~250	Setup 1 <sup>st</sup> sequence	01
Step 2	000~250	Setup 2 <sup>nd</sup> sequence	00
Step 3	000~250	Setup 3 <sup>rd</sup> sequence	00
Step 4	000~250	Setup 4 <sup>th</sup> sequence	00
Step 5	000~250	Setup 5 <sup>th</sup> sequence	00
OKALL Alarm Time	0.0~9.9	AT : OKALL signal holding time	1.0
OK Time	0.0~9.9	OT : OK signal holding time	9.9
NG Stop	OFF	Disable screwdriver when error occurred.	OFF
-	1~9		
		1~9	
		Setting value "1" means the screwdriver will be locked	
		when an error occurs.	
		Setting value "2" means when two consecutive errors	
		occurs will lock the screwdriver.	
		Setting value "3" means when three consecutive errors	
		occurs will lock the screwdriverand so on. If the	
		tightening status is OK once, it will be recalculated •	
		ON: when malfunction signal " NS _ happens, it will	
		disable screwdriver immediately ; User need to press	
		<sup>I</sup> ENTER J button to deactivate rotation(For I/O part.	
		But screwdriver can reverse.)	
		OFF: When malfunction <sup>®</sup> NG happen screwdriver	
		will not stop : it will not affect next activation. It will	
		provide a warning	
OKALL Stop	OFF/ON	Disable screwdriver when batch completed	OFF
OIG IEE Stop		Disable serewariver when batch completed	011
		ON: Stop screwdriver after batch completed. Users need	
		to press <sup>F</sup> ENTER [ (For I/O part. it is confirm signal)	
		· · · · · · · · · · · · · · · · · · ·	
		OFF: Screwdriver is normal after batch completed.	

#### 7. Extra function

Name	Function Description
Export to SD Card	Export to controller internal setting value(Controller setting
Calibrate Tool	Calibration mode

## 8. CONFIRM mode

Code	Description	<b>Disable method</b>
C1	Once external confirmation "GATE"	External GATE Signal
		External GATE Signal
C2	Twice external confirmation "GATE"	Trigger twice
~~	When <sup>r</sup> OKALL disable screwdriver <sub>r</sub> function is on, LCM	Panel Enter button/
C3	will display <sup>[C3]</sup> after a batch completed.	External CONFIRM
-	When $\[ \] OKALL disable screwdriver \[ \] \& \[ \] Sate mode trigger once \]$	External GATE Signal
C4	functions are on LCM will display $\[ C4 \]$ after a batch completed.	Trigger once +Panel Enter
		/External CONFIRM
C5	When $\operatorname{\mathbb{C}}$ OKALL disable screwdriver $\operatorname{\mathbb{C}} \operatorname{\mathbb{C}}^{\mathbb{C}}$ Gate Mode_trigger twice $\operatorname{\mathbb{C}}$ functions	Trigger twice +Panel
05	are on ; LCM will display $\[ C5 \]$ after a batch completed.	Enter/External CONFIRM
NS	When error occurs I CM will display <sup>[]</sup> NS .	Panel Enter button/
115		External CONFIRM
BS	When turn on the Barcode Enable, "BS" will be displayed before the job is	Barcode scan function
OK	When screwdriver shut off LCM will display OK	NA
OKALI	When a batch is completed , LCM will display "OK ALL.	NA
	NG-F : Sequence incomplete	1 1/2 1
	NS-F: Press Confirm/Enter for next action.	
	NGO: When output torque isn't inside set torque range. Output torque could be	
NG	lower than "LQ" or higher than "HQ"	NA
110	NGC: When number of output shaft rotation isn't inside set range. No. of	
	rotation could be lower than "LC" or higher than "HC".	
	2NG-E means sequence 2 is not completed properly, and so on	
	Voltage-drop protection : When the voltage of the electric screwdriver drops	
E2	instantly, the electric screwdriver will be stopped, and the LCM displays this	NIA
E3	symbol, representing that the screwdriver is currently under low-voltage	NA
	protection.	
	Over-temperature protection : When the internal temperature of the electric	
E4	screwdriver is too high, the electric screwdriver will be stopped, and the LCM displays E4 representing that the screwdriver is currently under over	NA
	temperature protection.	
	Stall protection : When the startup of the electric screwdriver motor is	
F5	abnormal, the electric screwdriver will be stopped, and the LCM displays E5,	NA
12	representing that	
	the screwdriver is currently under motor stall protection.	
E7	screwdriver it will stop the actions of the screwdriver and display F7 symbol	NA
E,	on the LCM.	1 1/2 1
	Temp cooling down state: When the screwdriver enters the temperature	
E8	protection, it will stop the action of the screwdriver and display E8 symbol on	NA
	the LCM.	
EO	Abnormal operation: When the screwdriver runs continuously for more than 20	NIA
E9	LCM.	NA
Б	GATE function abnormal : When the GATE function is on and function	Please confirm GATE phase
Er	abnormal, the buzzer will alarm, and LCM displays this Er.	and setting mode
	Screwdriver end communication error : When the electric	
ES	screwdriver communication error occurs, the	NA
22	electric screwdriver will be stopped, and the LCM displays this ES.	

EOC	Calibration is required when EOC is stated on LCM display. [Note]: When numbers of tightening are reached one million time, the EOC warning comes up on display panel each time as machine turning on.	NA
ELS	When LCM displays the word ELS, it indicates that the SD card capacity is less than 100MB, and it will stop the operation of the screwdriver. Which need to press the Enter key to release the screwdriver freeze state.	NA
EPC	ADV MODE communication abnormal °	NA

### 9. External output control function description

Connector No	Symbol Definition	Function Description
CN 1	START	RUN FWD: When the screwdriver is on,CN1 、 2 short.
CN 2	СОМ	When it short, CN1+CN2 short. When it open, CN1+CN2 open.
CN 3	-	
CN 4	-	
CN 5	REVERSE	RUN BWD: When the screwdriver reverse, CN5 、 6 short.
CN 6	СОМ	When it short, CN5+CN6 short. When it open, CN5+CN6 open.
CN 7	ок	OK: When a screw is fastened, CN7    8 short.
CN 8	СОМ	When it short, CN7+CN8 short. When it open, CN7+CN8 open.
CN 9	NG	NOK: When there is malfunction, CN9 > 10 short
CN 10	СОМ	When it short, CN9+CN10 short. When it open, CN9+CN10 open.
CN 11	OKALL	OK SEQUNECE: When it completed sequence setting screw,CN11 \ 12 short.
CN 12	СОМ	When it short, CN11+CN12 short. When it open, CN11+CN12 open.
CN 13	Vdc	Controller output voltage: DC+12V/100mA or +24V/50mA Default value: +24V/50mA (+12V/100mA can be customized).
CN 14	GND	Output voltage GND







#### 10. External input control function description

Connector No	Symbol Definition	Function Description
	External start	1. When CN1+CN2 short (CLOSE), screwdriver
CN 1	signal input	start functioning.
	START_IN	
CN 2	GND	2. When CN1+CN2 open (OPEN), screwdriver stop
	GILD	functioning.
	- 1	1.When external reverse signal CN3+CN4 short
	External reverses	(CLOSE) first and activate signal CN1+CN2 short (CLOSE),
CN 3	signal input	screwdriver start reversing.
	KEVEKSE	2 When outernal reverse signal CN2+CN4 ener (ODEN) first
		2. when external reverse signal CN3+CN4 open (OFEN) first and activate signal CN1+CN2 short (CLOSE) screwdriver
CN 4	GND	start forwarding
	External disable	1. When CN5+CN6 short (CLOSE), screwdriver cannot be
CN 5	signal input	activated.
	DISABLE	
CNG	CND	2.When CN5+CN6 open (OPEN), screwdriver can be
	GND	activated.
	External confirm	1. When system requests to press confirm button, we can short
CN 7	signal input	CN7+CN8 (CLOSE) instead.
	CONFIRM	2. After CONFIRM is executed, the NG signal is also cleared.
CN 8	GND	
CNO	External clear	1. To clear sequence/program, it can be activated by shorting
CN 9	signal input	CN9+CN10(CLOSE)
CN 10	GND	-
		1 By inputting a confirm signal, it makes machine to judge it
CN 11	External sensor switch	effective value.
	UALL	2.Sensor switch : Switch in process can be
CN 12	GND	one or two.
	External confirm	
CN 13	SEQUENCE	When we need to clean sequence, it can be activated by
	CLEARED	shorting CN13+CN14 (CLOSE).
CN 14	GND	





### 11. MY-SAVER Data transmission description and flow control suggestion

VER:2020060201

1. Controller power on and time synchronization

After controller is power on, it will send data {REQ100...} each second to inform

external device such as computer  $\ PLC \ AMS$ . The external device needs to reply {CMD100, ....} that to sync the external device time to the controller.

If the controller does not receive {CMD100, ....},{REQ100, ....} will be sent again after 10 seconds.

- 2. When controller received barcode information, it will send scanned data and data format as {REQ101, ...} to external device for control judgement or record saving. External device needs to reply {CMD100, ....}.
- **3.** After controller is power on and screwdriver shut off, brake signal format as {DATA100, ....} will be send. Every shut off will cause column 14 (no. of total tightening on controller) to increase by 1. External device needs to reply {CMD100, ....}, if not replying CMD100,the controller will keep on sending DATA100(only update date time) and column 14 (no. of total tightening on controller) value will remain unchanged.
- **4.** Shut off data will be sent after each shut off. Use the column 14 (no. of tightening on controller) to judge if there it is a new shut off data or not.
- **5.** When controller receive feedback and format as {CMD100, ....} from external device, controller will resume to automatically send {REQ100, ...} and be able to configure controller time.
- 6. Recommended software control flow as below:P.S: The content of [CMD100] in flow as the below:

### {CMD100,YEAR,MONTH,DAY,HOUR,MINUTE,SECOND,0000,0000,0,1}

Str2 0001~9999 YEAR Str3 01~12 MONTH Str4 01~31 DAY Str5 00~23 HOUR Str6 00~59 MINUTE Str7 00~59 SECOND Str8 0000-9999 Check Sum (YEAR+MONTH+DAY+HOUR+MINUTE+SECOND = Check Sum) Str9 0000-9999 Key Code (Check Sum + 5438 = Key Code) Str10 (default: 0) Str11 Instruction number (Same as the Instruction number of REQ100)

7. When the screwdriver is running, it will start transmitting {DATA101, ....}
 until the screwdriver status (for example: NG,OK...) is generated.
 PS:WIFI and Ethernet will not output {DATA101, ...} data.





	Get Torque values during fastening process	
Controller	Controller send to external device DATA101(Tool is busy now and keeps sending Data 101 until the tool gets new status)	External device
MY-SAVER (Master)	Controller send to external device DATA100(After Data101, check column 14 of Data 100 to judge if it is any new data)	PC/AMS/PLC (Slave)
	External device response to controller	

	MY-SA	/ER Basic Data Outr	out Proto	ocol Descrip	tion			
COMPORT Setting:Baud rate : Serial communication Mode -A	115200/9600(CTDS 1.7X ASCII (American Standard	), Data bit : 8 , Stop bit : 1, Pa d Code for Information Inter	arity bit :NON change)	N		(Ver1.0_20210701_01)		
There are three basic data outp	out formats send from de	evice (MY-SAVER) to externa	l system (DA	S/AMS/Other Sy	stem) via 1	the buildin RS232 port on the device :		
1.Command {REQ100} : Send fr 2.Command {REQ101} : Send fr	rom Device to Host (Ser rom Device to Host (Ser	nd device status to host per s nd barcode data to host imm	econd after ediately afte	device startup re er barcode scaneo	ady) d a data)			
3.Command {DATA100} : Send	from Device to Host (Se	end last shutoff data to host	immediately	y and repeat per	second aft	er screwdriver shutoff )		
4.Command (CMD100) : Send (	from Host to Device (Ho	ost respond system time to d	levice ) podiatoly wh	on the scrowdriv	or ic runni	20		
ps : 1.Device will change outp	but data from {DATA100}	to {REQ100} after read {CM	D100} from	external system		ng)		
2.The character position in	n the string does not con	tain a comma						
1 (PEO100) Data format/ovample	(PEO100 2010 11 26 13 30 57 2	165 7603 0 0 003 TMP0005 MV-SAVE	P-TEST 1 1 10 10	1 10 4 1 1 008 1 09 1				
	{KEQ100,2013,11,20,13,33,37,2	105,7005,0,0,005,110F0005,10F5AVE	N-1E31,1,1,10,10	,1,10,4,1,1.008,1.03,1,	0,99,99,100,	<b>.</b> :		
Field	Parameter Header+CMD	Value (REQ100	Data Type String	7 Byte	Position 1-7	Description		
2	Year	0001~9999	String	4 Byte	9-12	Year		
3	Month	01~12	String	2 Byte	14-15	Month		
5	Hour	00~23	String	2 Byte	20-21	Hour(24 hours)		
6	Minute	00~59	String	2 Byte	23-24	Minute		
/	Check Sum	0000~9999	String	2 Byte 4 Byte	26-27	Second		
9	Key Code	0000~9999	String	4 Byte	34-37	Key Code		
10 11	unused unused	0	String String	1 Byte 1 Byte	39 41	unused		
11		001~250	Suniy Ctrine	2 Duto	71 12 /12	Device index number arranged in the same		
12		001~2JU	Sung	o byte	43-45	assembly line (or workstation)		
13	Device SN	20 Bytes	String	20 Byte 20 Byte	47-66 68-87	Device serial no.		
		10.000.000.000.0000.0000.0000.0000.000	ataa aa ahaa ahaa ahaa ahaa ahaa ahaa a	annon ann an Ariann a		Mode :		
15	Device Operation Mode	0~3	String	1 Byte	89	0 : ADV (Connection mode), 1 : STD (Standalone Mode), 2 : ALI (Alignment mode) ,		
						3 : SEI (Setting mode) 0 : Sequence control mode		
16	Sequence Control Mode	0~1	String	T Byte	91	1 : Skip sequence mode		
17	Job	01~50	String	2 Byte	93-94	Selected Job		
18	Select Tool	01~50	String	2 Byte 1 Byte	96-97	Selected Sequence		
20	Program Unit	01~99	String	2 Byte	101-102	Selected Unit Program		
21	Device Type	4	String	1 Byte	104	Device type (4:MY-SAVER)		
22	Tool Connect	0~1	String	1 Byte	106	Screwdriver connection status (1: Connect, 0:		
23	Device Version	0.000~9.999	Strina	5 Byte	108-112	Device firmware version		
24	Tool Version	0.00~9.99	String	4 Byte	114-117	Screwdriver firmware version		
25	Tool Enable/Disable Status	0~1	String	1 Byte	119	Screwdriver status (0: Disable, 1: Enable)		
26	Tool Stop Status	0~9,A~L	String	1 Byte	121	Tool Stop Status (0: None , 1:NS, 2:AS, 3:E3, 4:E4, 5:E5, 7:E7, 8:E8, 9:E9, A:EPC, B:ESC, C:ES, D:Er, E:C1 F:C2, G:C4, H:C5, I:EOC, J:BS, K:Confirm, L:Clear)		
27	Screw count	00~99/00~99	String	5 Byte	123-127	The numbers of remaining screws / Total screws		
28	Instruction number	1~255	String	3Byte	129-131	Instruction number		
29	Tail	}	String	1 Byte	133	Tail		
						ASCII code CF		
			{REQ1	.00, }Total:133 Byte,2	9 Field			
Remark	Item 1 to 29 are separated by	"," (ASCII 0x2c)	<u>.</u>					
2. {REQ101} Barcode format/example	{REQ101,2019,11,26,15,56,48,2	175,7613,OPID0000001,TMP0005,M	Y-SAVER-TEST,10	00,}				
Field	Parameter	Value	Data Type	String Length	Position	Description		
1	Header+CMD Year	{KEQ101 0001~9999	String String	7 Byte 4 Byte	1-7 9-12	Header+Command code Year		
3	Month	01~12	String	2 Byte	14-15	Month		
4	Date	01~31 00~23	String	2 Byte	17-18	Date		
6	Minute	00~59	String	2 Byte	23-24	Minute		
7	Second	00~59	String	2 Byte	26-27	Second		
8	Check Sum	0000-9999	String	4 Byte	29-32	Key Code		
9	Rey Code	0000-9999 1~54 Byte	String	4 Byte 54 Byte	34-37	Rarcode data		
10	Tool SN	20 Bytes	String	20 Byte	94-113	Screwdriver serial no.		
12	Device SN	20 Bytes	String	20 Byte	115-134	Device serial no.		
13	Instruction number	1~255	String	3 Byte	136-138	Instruction number		
14 1c	lail	}	String	1 Byte	140	I all ASCII code LE		
15			-			ASCII code CR		
		REQ101, )Total: 140 Byte,14 Field						
Remark	Item 1 to 14 are separated by	"," (ASCII 0x2c)			·····			
	{DATA100,2019,11,26,16,24,48	,2144,7582,4,003,TMP0005	_,MY- <mark>SAVER-</mark>		1	ē		
	TEST,0000000001,01	.,01,01,******,01,0000.0000,0,0000.47	20,0003.0000,9	9/99,1,1NG-F,0,}	D. III			
Field	Parameter	Value	Data Type	String Length	Position	Description		
2	Year	0001~9999	String	4 Byte	10-13	Year		
3	Month	01~12	String	2 Byte	15-16	Month		
4	Hour	00~23	String	∠ Byte 2 Byte	21-22	Hour(24 hours)		
6	Minute	00~59	String	2 Byte	24-25	Minute		
7	Second	00~59	String	2 Byte	27-28	Second		

14

4 Byte

4 Byte

1 Byte

3 Byte

20 Byte

20 Byte

10 Byte

2 Byte

2 Byte

String

String

String

String

String

String

String

String

String

30-33

35-38

40 42-44

46-65

67-86

88-97

99-100

Key Code

Selected Job

102-103 Selected Sequence

Key Code Device type (4:MY-SAVER) Device index number arranged in the same assembly line (or workstation) Screwdriver serial no. Less than 20 Bytes fill the underline"\_". Device serial no. Less than 20 Bytes fill the underline"\_". Device accumulated shutoff count after poweron Selected Iob

8 Check Sum

9 Key Code

11 Device ID

12 Tool SN

13 Device SN

16 Sequence

15 Job

14 Device Count

10 Device Type

0000-9999

0000-9999

001~250

20 Bytes

20 Bytes

01~50

01~50

000000001~9999999999

4

18	Trogramume	01~99	String	2 Byte	105-106	Selected Unit Program
	Program Name	1~6 Bvtes	Strina	6 Bvte	108-113	Setup program name, it can choose number setup program name, it can choose number for
-		,	y	,		program name.
19	Select Tool	01~09	String	2 Byte	115-116	Selected Tool (Current activated screwdriver)
20	Torque	screwdrivers	String	9 Byte	118-126	Shutoff troque(example:0000.0000)
21	Torque unit	0~3	String	1 Byte	128	Torque unit(0: kgf.cm, 1: N.m, 2: lbf.in, 3: kgf.m)
22	Fastening time	0000.0000~0009.9990	String	9 Byte	130-138	Fastening time(ms)
23	Fastening thread	0000.0000~9999.9999	String	9 Byte	140-148	Fastening thread
24	Screw count	00~99/00~99	String	5 Byte	150-154	The numbers of remaining screws / Total screws
	INC/DEC	0~1	Sung	1 byte	130	Fastening status
26	Status	OK,NGQ,NGC,OKALL,NG-F,NS-F	String	5 Byte	158-162	OKEach time when the fastening is complete. NGQ: stop torque is less than L/more than H. NGC: stop number of turns is less than L/more than H. OKALL:Each time when a batch is complete. NG-F : Sequence incomplete 1(Number represents step,5 step) NS-F : Press Confirm/Enter for next action. 1(Number represents step,5 step) Less than 5 Bytes fill the underline" ".
27	Tool Stop Status	0~9,A~H	String	1 Byte	164	Tool Stop Status(0: None , 1:NS, 2:AS, 3:E3, 4:E4, 5:E5, 7:E7, 8:E8, 9:E9, A:EPC, B:ESC, C:ES, D:Er, E:C1, F:C2, G:C4, H:C5)
28	Tail	}	String	1 Byte	166	Tail
29						ASCII code LF
30						ASCII code CR
			(DATA1	00, }Total:166 Byte	28 Field	
Remark	Item 1 to 28 are separated by	"," (ASCII 0x2c)				
	(CMD100 2010 14 20 40 5	0 01 44 7500 0 100 0				
4. (CMD100) Data format/example	{CMD100,2019,11,26,16,24,4	8,2144,7582,0,100,}				
Field	Parameter	Value	Data Type	String Length	Position	Description
1	Header+CMD	{CMD100	String	7 Byte	1-7	Header+Command code
2	Year	0001~9999	String	4 Byte	9-12	Year
3	Month	01~12	String	2 Byte	14-15	Month
4	Date	01~31	String	2 Byte	17-18	Date
5	Hour	00~23	String	2 Byte	20-21	Hour(24 hours)
6	Minute	00~59	String	2 Byte	23-24	Minute
	Second	00~59	String	2 Byte	26-27	Second
8	Check Sum	0000-9999	String	4 Byte	29-32	TEAR+MONTH+DAT+HOUR+MINUTE+SECON
G	Key Code	0000-9999	String	4 Bvte	34-37	Check Sum+5438=Kev Code
10	Device Name	0~1	String	1 Byte	39	Device Name(0: AMS, 1: DAS)
11	Instruction number	1~255	String	3 Byte	41-43	Instruction number
12	Tail	}	String	1 Byte	45	Tail
13						ASCII code LF
14						ASCII code CR
			{CMD1	00, }Total: 45Byte,1	2 Filed	
Remark	1. Item 1 to 12 are separated b	y "," (ASCII 0x2c)				
	2.Reply to CMD100 when the	time is inconsistent of repeat (DATA)	100}			
5. {DATA101} Data format/example	{DATA101,00.612,000.25}					
Field	Parameter	Value	Data Type	String Length	Position	Description
1	Header+CMD	{DATA101	String	8 Byte	1-8	
-		<u></u>	e	<b>CD</b> .	40.45	Header+Command code
2	Fastening time	00.000~99.999	String	6Byte	10-15	Header+Command code Fastening time
3	Fastening time Torque	00.000~99.999 Please refer tothe specification of s	String String	6Byte 7Byte	10-15 17-23	Header+Command code Fastening time Torque(Torque value varies according to the torque unit)+Tail
3	Fastening time Torque	00.000~99.999 Please refer tothe specification of s	String String	6Byte 7Byte	10-15 17-23	Header+Command code Fastening time Torque(Torque value varies according to the torque unit)+Tail ASCII code LE
3	Fastening time Torque	00.000~99.999 Please refer tothe specification of s	String String	6Byte 7Byte	10-15 17-23	Header+Command code Fastening time Torque(Torque value varies according to the torque unit)+Tail ASCII code LF ASCII code CR
3	Fastening time Torque	00.000-99.999 Please refer tothe specification of s (DATA101	String String , }Total: 23B	6Byte 7Byte yte,3 Filed	10-15 17-23	Header+Command code Fastening time Torque(Torque value varies according to the torque unit)+Tail ASCII code LF ASCII code CR
2 3 	Fastening time Torque 1.Item 1 to 3 are separated by	00.000-99.999 Please refer tothe specification of s (DATA101 "," (ASCII 0x2c)	String String , }Total: 23B	6Byte 7Byte yte,3 Filed	10-15 17-23	Header+Command code Fastening time Torque(Torque value varies according to the torque unit)+Tail ASCII code LF ASCII code CR
2 3 	Fastening time Torque 1.Item 1 to 3 are separated by 2.WIFI and Ethernet will not o	00.000-99.999 Please refer tothe specification of s (DATA101 "," (ASCII 0x2c) utput (DATA101,) data.	String String , }Total: 23B	6Byte 7Byte yte,3 Filed	10-15 17-23	Header+Command code Fastening time Torque(Torque value varies according to the torque unit)+Tail ASCII code LF ASCII code CR
2 3 3 4 5 	Fastening time Torque 1.Item 1 to 3 are separated by 2.WIFI and Ethernet will not o RS-232C 9 Pin Female (	00.000-99.999 Please refer tothe specification of s (DATA101 "," (ASCII 0x2c) utput (DATA101,) data. DCF) to PC or PLC (DTF)	String String , )Total: 23B	6Byte 7Byte yte,3 Filed	10-15 17-23	Header+Command code Fastening time Torque(Torque value varies according to the torque unit)+Tail ASCII code LF ASCII code CR
2 3 4 5 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Fastening time Torque 1.Item 1 to 3 are separated by 2.WIFI and Ethernet will not o RS-232C 9 Pin Female (	00.000-99.999 Please refer tothe specification of s (DATA101 "," (ASCII 0x2c) utput (DATA101,) data. DCE) to PC or PLC (DTE) USB	String String ,)Total: 23B	6Byte 7Byte yte,3 Filed WIFI	10-15	Header+Command code Fastening time Torque(Torque value varies according to the torque unit)+Tail ASCII code LF ASCII code CR
Communication interface : Connection :	Fastening time Torque 1.Item 1 to 3 are separated by 2.WIFI and Ethernet will not o RS-232C 9 Pin Female ( 1.Barc	00.000-99.999 Please refer tothe specification of s (DATA101 "," (ASCII 0x2c) utput (DATA101) data. DCE) to PC or PLC (DTE) USB ode scanner	String String	6Byte 7Byte yte,3 Filed WIFI 1.WIFI module	10-15 17-23	Header+Command code Fastening time Torque(Torque value varies according to the torque unit)+Tail ASCII code LF ASCII code CR
a a a a a a a a a a a a a a a a a a a	Torque         1.Item 1 to 3 are separated by         2.WiFl and Ethernet will not o         RS-232C 9 Pin Female (         1.Barc         2.Conne         2.Conne	00.000-99.999 Please refer tothe specification of s (DATA101 *," (ASCII 0x2c) utput (DATA101_) data. DCE) to PC or PLC (DTE) USB ode scanner	String String )Total: 23B	6Byte 7Byte yte,3 Filed WIFI 1.WIFI module		Header + Command code Fastening time Torque(Torque value varies according to the torque unit)+Tail ASCII code LF ASCII code CR



MY-SAVER-N

No.	PARTS NO.	PARTS NAME-E	PARTS NAME-C	Q'ty	No.	PARTS NO.	PARTS NAME-E	PARTS NAME-C	Q'ty
1	AA50002	America Plug	美式電源線	1	23	CBB00014-2	Housing-Underside	下蓋	1
	AA50002-1	Australia Plug	澳式電源線	1	24	CH20537	Srew M3*5L	螺絲 圓頭 M3*5L	4
	AA50002-2	Europe Plug	歐式電源線	1	25	CH30226-1	Srew M3*6	螺絲 M3*6	8
	AA50002-3	British Plug	英式電源線	1	26	CH20103-3	Rubber Shim	腳墊	4
	AA50002-6	India Plug	印式電源線	1	27	CH30226-1	Srew M3*6	螺絲 M3*6	9
2	P11307	USB Converter	USB 轉換器	1	28	C50228-3	Side housing	側蓋	1
3	EC30004-1	Plastic frame	塑膠框	1	29	CAD00003-3	Housing-Front Side	前蓋	1
4	YTM0178-2	Sticker-Model	麥拉貼紙	1	30	EG31550B	PCB-IO	機板成品 IO背板	1
5	CAB00014-2	Housung-Upside	上蓋	1	31	CH20505-6	Srew M3*5mm	螺絲 圓頭 M3*5	4
6	CH20102-5	Srew TP3*6	螺絲 TP3*6	6	32	P11403-2	Selector switch	電壓選擇開關	1
7	CC28028-16	Button	手按鍵開關鈕 黑色	6	33	X10068	Bolt	螺帽	1
8	C50226-1	Button Fixture	按鍵開關蓋 黑色	6	34	X10067	Washer	墊片	2
9	EG31545-4	P.C.B-LCD	機板成品 控制LCD面板	1	35	PZ50165-32	Connector	插座半成品	1
10	CH20505-6	Srew M3*5mm	螺絲 圓頭 M3*5	8	36	CH30226-1	Srew M3*6	螺絲 M3*6	2
11	C50229-3	Plastic frame	防護蓋	1	37	CH20102-33	Srew	六角螺絲 M4	2
12	CH20401	Bolt	螺帽	5	38	E31801-1	Plug fixer	扣環 U型	1
13	CH20301	Washer	華司	8	39	P11400	Socket (with fuse)	搖擺開闢加IEC公座	1
14	CH20302	Washer	外齒型華司	4	40	E31501-19	FUSE (10A)	保險絲 (10A)	1
15	CH20535	Srew M4*38L	螺絲 M4*38L	1	41	CH20513	Srew M3*12LT-NI	螺絲 傘頭 M3*12LT-NI	2
16	CH30226-1	Srew M3*6	螺絲 M3*6	2	42	C50216-2	Fixture	保護蓋	1
17	E31502-5	Fuse	保險絲座	1	43	CH50696-7	Grounding Means-350mm	接地線-350mm	1
18	E31501-21	FUSE (15A)	保險絲 (15A)	1	44	E31315	Grounding Means	電感含接地線 3.3mH PVC UL1007#/18AWG(綠滾黃)	1
19	CBD00003-3	Housing-backside	後蓋	1	45	E31711-2	4Pin Plug	4P 雙頭排插含線 220mm 間距3.96mm TCC/TCS用	1
20	CH30226-1	Srew M3*6	螺絲 M3*6	9	46	E31726-4	24Pin Plug	24P 雙排插頭含線 220mm	1
21	C50228-3	Side housing	側蓋	1	47	CJ20015-2	Fixed Plate	固定板	1
22	EG50101-35	РСВ	機板成品 AO1160M-40C3A	1	48	CH20519-4	Srew M4*6	螺絲 M4*6	4



MY-SAVER MEGA

No.	PARTS NO.	PARTS NAME-E	PARTS NAME-C	Q'ty	No.	PARTS NO.	PARTS NAME-E	PARTS NAME-C	Q'ty
1	AA50002	America Plug	美式電源線	1	22	EG50101-35	PCB	機板成品 AO1160M-40C3A	1
	AA50002-1	Australia Plug	澳式電源線	1	23	CBB00014-2	Housing-Underside	下蓋	1
	AA50002-2	Europe Plug	歐式電源線	1	24	CH20537	Srew M3*5L	螺絲 圓頭 M3*5L	4
	AA50002-3	British Plug	英式電源線	1	25	CH30226-1	Srew M3*6	螺絲 M3*6	8
	AA50002-6	India Plug	印式電源線	1	26	CH20103-3	Rubber Shim	腳墊	4
2	P11307	USB Converter	USB 轉換器	1	27	CH30226-1	Srew M3*6	螺絲 M3*6	9
3	EC30004-1	Plastic frame	塑膠框	1	28	C50228-3	Side housing	側蓋	1
4	YTM0178-9	Sticker-Model	麥拉貼紙	1	29	CAD00003-6	Housing-Front Side	前蓋	1
5	CAB00014-2	Housung-Upside	上蓋	1	30	EG31550B	PCB-IO	機板成品 IO背板	1
6	CH20102-5	Srew TP3*6	螺絲 TP3*6	6	31	CH20505-6	Srew M3*5mm	螺絲 圓頭 M3*5	4
7	CC28028-16	Button	手按鍵開關鈕 黑色	6	32	P11403-2	Selector switch	電壓選擇開關	1
8	C50226-1	Button Fixture	按鍵開關蓋 黑色	6	33	PZ50165-33	Connector	插座半成品	1
9	EG31545-4	P.C.B-LCD	機板成品 控制LCD面板	1	34	CH30226-1	Srew M3*6	螺絲 M3*6	2
10	CH20505-6	Srew M3*5mm	螺絲 圓頭 M3*5	8	35	CH20102-33	Srew	六角螺絲 M4	2
11	C50229-3	Plastic frame	防護蓋	1	36	E31801-1	Plug fixer	扣環 U型	1
12	CH20401	Bolt	螺帽	5	37	P11400	Socket (with fuse)	搖擺開闢加IEC公座	1
13	CH20301	Washer	華司	8	38	E31501-19	FUSE (10A)	保險絲 (10A)	1
14	CH20302	Washer	外齒型華司	4	39	CH20513	Srew M3*12LT-NI	螺絲 傘頭 M3*12LT-NI	2
15	CH20535	Srew M4*38L	螺絲 M4*38L	1	40	C50216-2	Fixture	保護蓋	1
16	CH30226-1	Srew M3*6	螺絲 M3*6	2	41	CH50696-7	Grounding Means-350mm	接地線-350mm	1
17	E31502-5	Fuse	保險絲座	1	42	E31315	Grounding Means	電感含接地線 3.3mH PVC UL1007#/18AWG(綠滾黃)	1
18	E31501-21	FUSE (15A)	保險絲 (15A)	1	43	E31711-2	4Pin Plug	4P 雙頭排插含線 220mm 間距3.96mm TCC/TCS用	1
19	CBD00003-3	Housing-backside	後蓋	1	44	E31726-4	24Pin Plug	24P 雙排插頭含線 220mm	1
20	CH30226-1	Srew M3*6	螺絲 M3*6	9	45	CJ20015-2	Fixed Plate	固定板	1
21	C50228-3	Side housing	側蓋	1	46	CH20519-4	Srew M4*6	螺絲 M4*6	4



Our company reserves the right to modify the product without prior notice.