



TLB-PS61C and TLB-PS801C Power Supplies

- Read these instructions for the proper use of the tool.
- After having read these instructions, keep them in a convenient place so you or the operator can refer to them whenever necessary.

PLEASE NOTE: When repairing or replacing tools or components on any TLB Series purchased in 2016 or prior, please contact ASG representative

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Overview

Thank you very much for selecting the TLB-PS61C or TLB-PS801C Counting Power Supply

⚠ WARNING Read this manual before placing tool in service or operation. Save these instructions for future reference. It is the responsibility of the employer to place the information in this manual into the hands of the operator. Failure to observe the following warnings could result in injury. When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury.

Note: ASG is not responsible for customer modification of tools for applications on which ASG was not consulted.



General Safety Rules

Electrical Safety

- Keep work area clean and well lit.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which ignite the dust or fumes.
- Keep out of reach of children and untrained personnel. Electric screwdrivers are dangerous in the hands of untrained personnel.
- Electric screwdriver plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) electric screwdrivers. These precautions will reduce the risk of electric shock.
- Avoid body contact during tool use with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose the electric screwdriver to rain or wet conditions as this will increase the risk of electric shock.
- Never use the cord to carry, pull, or unplug the electric screwdriver. Keep cord away from heat, oil, sharp edges, or moving parts. Damaged or entangled cords increase the risk of electric shock.
- Take proper precautions when operating a power tool outdoors. Use an extension cord suitable for outdoor use. Use of cord suitable for outdoor use reduces the risk of electric shock.

Personal Safety

- Stay alert and pay attention to your surroundings when operating an electric screwdriver. Do not use the electric screwdriver while you are tired or under the influence of drugs, alcohol, or medication, as this could result in serious personal injury.
- Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

- Ensure the switch is in the off position before plugging in to avoid accidental starting.
- Remove any adjusting keys or wrench before turning the power tool on. A wrench or a key that is left attached to a rotating part of the power tool may result in personal injury.
- Keep proper footing and balance at all times.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

Power Tool Use and Care

- Use the correct electric screwdriver and power supply for your application.
- Do not use the electric screwdriver or power supply if any switch is broken. Any electric screwdriver or power supply that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Keep out of reach of children and untrained personnel. Electric screwdrivers are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the operation of the power tool. If damaged, contact ASG to have the power tool repaired before use.
- Use the power tools, accessories, and tool bits etc. in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations differently than intended could result in a hazardous situation.



General Safety Rules (Continued)

Service

- Have your electric screwdriver serviced by ASG. This will ensure that the safety and quality of the electric screwdriver is maintained.

Operating Instructions

- **PLEASE NOTE: When repairing or replacing tools or components on any TLB Series purchased in 2016 or prior, please contact an ASG representative.**
- Read the operating manual thoroughly and comply with safety regulation to operate this power supply.
- Always grasp the plug of the power cord when plugging in/unplugging.
- Always secure the power supply to avoid movement.
- Do not store near oil, chemical materials, or heated objects. Do not damage the power cord by sharp object.
- If the power supply overheats or is overloaded with maximum current rating, the high-speed fuse will cut off the power. If this situation continues, stop operation immediately and contact ASG for repair.
- Do not disassemble the electric screwdriver or try to repair it yourself. Please contact ASG for repair.
- When power supply is not in use, please turn the main power switch OFF and unplug the power supply.
- The electric frequency will be lower when the voltage is adjusted to Lo or below 32V, so the torque of the electric screwdrivers will only work at the torque scale rating below 4.

Operating Instructions (Continued)



- WARNING**
- Be sure to use correct power supply with corresponding driver
 - For use with TLB series electric screwdrivers. If operator uses non ASG TLB Series electric screwdrivers, parts, or accessories, it may cause the controller malfunction. As a result, all warranties will be void.
 - Do not move Forward/Reverse switch or HI/LO button while tool is running.
 - Turn power off before plugging in and unplugging power supply.



Main Technical Parameters

Model Number	68632 (TLB-PS61-C)	68639 (TLB-PS801-C)
Input Voltage	AC 100-240V 50 / 60Hz	AC 115/230V 50 / 60HZ
Output Voltage	DC 32V/ 24V	DC 40V/ 32V/ 24V
Power Consumption	60W	360W
Counting Numbers	1 - 99	
Counting Method	Forward as / Count down	
Connecting Sensor	ON / OFF	
Sensing Switch Mode	ON (2 Sensor) / OFF (1 Sensor)	
Slow-Start Time Adj.	0.0-9.9 seconds	
Slow-Start Speed Adj.	L0:100% 30%-90% L1~L9 Rated speed	
Start Detecting Time	0.01-9.99 seconds	
Stop Detecting Time	0.1-9.9 seconds	
Detecting Alarm	ON/ OFF/ FF/ EF with LED and buzzer	
Auto-Response/Manual Response	ON / OFF	
External Connection Input	Forward / Reversion / Prohibit operation / Sensor Switch / resuming Switch / Confirm Switch	
External Connection Output	OK/ NG/ OK ALL	
Electric Screwdriver Speed Control	HI / LO; Slow Start	
Size	7.9 x 5.1 x 3.9 in. (200 x 130 x 100 mm)	9.7 x 5.1 x 3.9 in. (247 x 130 x 100 mm)
Weight	3.4 lb (1.53 kg)	5.3 lb (2.4 kg)
Applicable Screwdrivers	68689 (TLB-C203LS), 68608 (TLB-C210L), 68609 (TLB-412L), 68610 (TLB-C412PH), 68621 (TLB-C419L), 68622 (TLB-C419P), 68670 (TLB-C203L-ESD), 68671 (TLB-C419L-ESD), 68672 (TLB-C419ESD)	
	68673 (TLB-C630L), 68674 (TLB-C630P), 68686 (TLB-C960PG), 68687 (TLB-C990PG), 68682 (TLB-C990L), 68683 (TLB-C990P), 68684 (TLB-C9120L), 68685 (TLB-C9120P), 68688 (TLB-C9180PGW), 68691 (TLB-C9180PW), 68692 (TLB-C9180LW)	
Accessories	Power cord, key	

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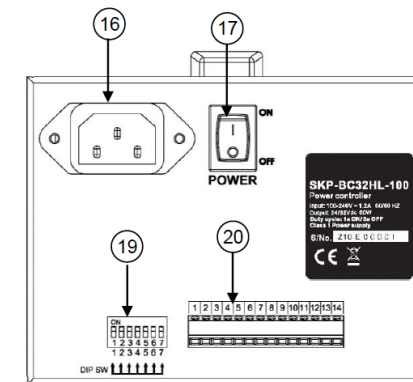
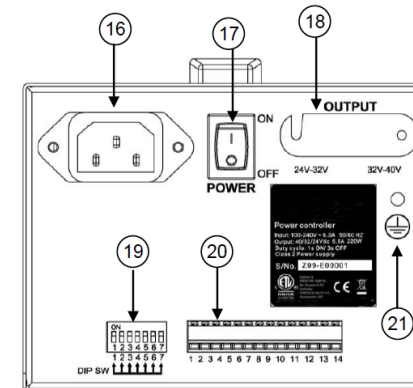
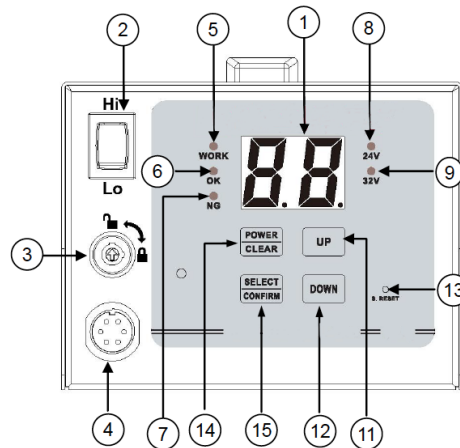
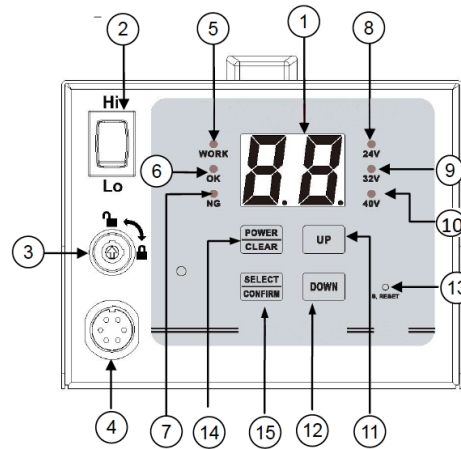
ASG, Division of Jergens, Inc.

15700 S. Waterloo Road | Cleveland, OH 44110-3898 | Phone: (888) 486-6163 | Fax: (216) 481-4519 | Email: asginfo@asg-jergens.com | Web: www.asg-jergens.com | Revision Date: 01/03/18



Control Panel Specifications

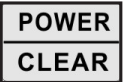



#	Description
1	LED Indicator
2	HI/LO Speed Switch
3	Key setting lock
4	6 Pin Connector
5	Work Light
6	OK Light
7	NG Light
8	24V Light
9	32V Light
10	40V Light
11	Up-Selecting Key
12	Down-Selecting Key
13	System Build-In Reset Key
14	POWER/CLEAR key
15	Functional Selection/Confirm Key
16	Power Point
17	Power Switch
18	Output Voltage
19	I/O Inserting Hole Instruction
20	Functional Dip Switch
21	GND





Control Panel Specifications (Continued)
















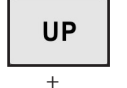

























Functions of Keys on Panel

Key	Description of Function	Notes
	<p>POWER: Power Switch</p> <ol style="list-style-type: none"> When power is on and has not started the counting operation <ul style="list-style-type: none"> Hold POWER/CLEAR for 6 seconds: this will turn off counting function NOTE: When the counting function is off, the LED screen is off When power is on and the counting function is off: <ul style="list-style-type: none"> Hold POWER/CLEAR for 3 seconds to turn back on the counting function <p>CLEAR: Clear Switch</p> <ol style="list-style-type: none"> When the screwdriver starts the counting function: <ul style="list-style-type: none"> Hold POWER/CLEAR for 1 second to return to the original setting for the number of screws. It will beep once. Hold for 3 seconds: Back to U1(No. 1 Setting Number) and beep 2 times 	When there is NG signal, press CLEAR button to clear the NG signal
	<p>SELECT: Press and hold the SELECT button for 3 seconds to enter system setting menu: SL---SC---At---RC---SP---Ht---Lt---L---NS---rt---rr---rS</p> <p>When entering the setting menu, press and hold S button to show the function (ex: SL or SC...etc.) and with beep sound. Release the "S" button to show the setting value</p> <p>CONFIRM: When DIP SW3 is ON and the user finished fastening a unit of screws, the counter requires the user to press the CONFIRM button to start the next unit</p>	1. Refer to CONFIRM mode: When there is NG signal output. Press "CONFIRM" button to stop the NG signal output.
	<p>UP: In system menu, press the UP key to increase the number. This key will point out user set-up number and unit during the process: U1: No.1 setting number U2: No.2 setting number. U3: No.3 setting number U4: No.4 setting number. U5: No.5 setting number</p>	When holding the UP button to show the unit number, the tool will not run.
	<p>DOWN: In system menu, press the DOWN key to decrease the number. This key will point out user set-up number and group during the process: U1: No.1 setting number U2: No.2 setting number U3: No.3 setting number U4: No.4 setting number U5: No.5 setting number</p>	When holding the DOWN button to show the unit number, the tool will not run.



Control Panel Specifications (Continued)


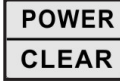





Functions of Keys on Panel (Continued)

Key	Description of Function	Notes										
 + 	<p>Up+Down: Select the following modes.</p> <table border="1"> <tr> <td></td> <td>The buzzer will sound when screw is fastened, when set is complete, and if there is a mistake in the operation</td> <td></td> <td>The beep will sound when the set is complete and if there is an error in the operation</td> </tr> <tr> <td></td> <td>The beep will sound only if there is a mistake in the operation</td> <td></td> <td>The buzzer will sound when screw is fastened and set is complete. The buzzer will not sound if there was an error in operation.</td> </tr> </table>		The buzzer will sound when screw is fastened, when set is complete, and if there is a mistake in the operation		The beep will sound when the set is complete and if there is an error in the operation		The beep will sound only if there is a mistake in the operation		The buzzer will sound when screw is fastened and set is complete. The buzzer will not sound if there was an error in operation.			
	The buzzer will sound when screw is fastened, when set is complete, and if there is a mistake in the operation		The beep will sound when the set is complete and if there is an error in the operation									
	The beep will sound only if there is a mistake in the operation		The buzzer will sound when screw is fastened and set is complete. The buzzer will not sound if there was an error in operation.									
	<p>S.RESET: SYSTEM RESET If any abnormalities occur and the system needs to be reset, push this key back to the initial number.</p>	Press RESET key once then release. When holding RESET key, the screwdriver is not able to operate until the release of the reset button.										
 + 	<table border="1"> <tr> <td></td> <td></td> <td></td> <td></td> <td>Lock function of the Panel Lock</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Unlock function of the Panel Lock</td> </tr> </table>					Lock function of the Panel Lock					Unlock function of the Panel Lock	
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Control Panel Specifications (Continued)


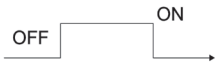


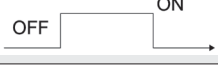


Functions of Keys on Panel (Continued)

Key	Description of Function	Notes
 + 	<p>Enter the setup: dt ----- tt ----- Sr ---- SA</p> <p>dt/tt dt: The time range between each screwing process. This function will be triggered after finishing one screwing process. If user does not start next screwing process in this setting time range, the system will display "dt" until next screwing process is started. ("01" = 1 second)</p> <p>tt: All the screwing processes in this list need to be finished under this setting time range. If user does not finish all the screws in this setting time range, the panel will display "tt" until all the screwing processes are finished. ("01" = 1 minute)</p> <p>Note:</p> <ol style="list-style-type: none"> When dt errors, restart the screwdriver to release from error status. If two or more errors occur, the red light illuminates and buzzer sounds. LED screen will display other error messages (ex: NS). Solving these errors will turn the red light off, but dt continues to be an error. When tt error occurs, completing the fastening process will release the tt error condition. Solving these errors will turn the red light off, but tt continues to be an error. <ul style="list-style-type: none"> dt is for each fastening screw time interval (U #, #:1,2,3,4,5) , tt is for the time of one whole unit (U1 ~ U #, #:2,3,4,5) , which is from U1 until the last U # screw is fastened When the dt/tt error occurs, press CLEAR to release from dt/tt , counter will return to the original screw numbers setting of the current unit <p>Sr: Multiple function switch cycle SENSOR</p> <p>Y: multiple cycles (SW2 = ON, SW6 = ON), when the number of fastened screws U1 are complete then screwdriver stops until the sensor is triggered (SW4 = OFF). If SW4 = ON, you need to trigger twice before jumping to U2 ... and so on</p> <p>N: multiple cycles (SW2 = ON, SW6 = ON or SW2 = ON, SW4 = ON, SW6 = ON), when the number of fastened screws U1 are finished it will then automatically start unit 2.</p> <p>Sr default: N</p> <p>Note: When SW6 = ON, Sr parameter setting (Y/N) is only for reference. That is, Sr is a global variable, once SW6 = ON then the U2 ~ U5 SENSOR mode will follow same setting</p> <p>SA: When under SENSOR mode, SA parameter setting is only effected when the SW2 = ON, SW4 = OFF.</p> <p>The up and down button in the front panel can switch value (HI / LO). HI:Hi Active LO:Lo Active The default value is: HI</p>	<p>Note:</p> <ol style="list-style-type: none"> When the user press the POWER + UP, panel display dt, release POWER + UP to display values under dt mode, press "S" can go in setting "tt", press "S" can go in setting "Sr" and then press "S" can set "SA". dt and tt cannot coexist, which mean are not able to set up at the same time. When set value dt > 0, tt will not show (cannot set value). Similarly, when the tt > 0, the dt setup value selection will not show.
	 Unlock Function	
	<ol style="list-style-type: none"> Lock with the key (Need use the key to lock) When KEY is in locked position, the LED will display "PC" and counter will beep 8 times if user changes the Hi/Lo setting.   Lock Function	



Control Panel Specifications (Continued)

I/O Map

No	Name	In/Out	Content	Wave Patterns of Signals	Remark
CN1	V+		Output 12 or 24 v dc		Output: DC +12V or +24V (Max: 200mA) Default value: +24VDC (+12VDC need to custom modify)
CN2~CN3	OK	Output	CN2 and CN3 will be short when one screw is fastened		Automatically open MOS RELAY (default) +/- 40V, +/- 250mA (Open Collector need to custom modify)
CN4~CN5	NG	Output	CN4 and CN5 will be short when error occurs		Automatically open MOS RELAY (default) +/- 40V, +/- 250mA (Open Collector need to custom modify)
CN6~CN7	OK ALL	Output	CN6 and CN7 will be short when all screws are fastened		Automatically open MOS RELAY (default) +/- 40V, +/- 250mA (Open Collector need to custom modify)
CN8	START_IN	Input	External START input		<ol style="list-style-type: none"> When start input is short and COM(CN14) is closed, the screwdriver will start When COM(CN14) is open, the screwdriver will stop
CN9	DIR_IN	Input	External REVERSE input		When enable start signal (CN8 + COM) and COM (Close circle) are short, screwdriver will start in reverse rotation. If the driver switches F/R switch to "forward", when CN9 + COM short screwdriver is still in reverse rotation.
CN10	DISABLE	Input	External DISABLE input		When COM (CLOSE circle) is short, the screwdriver will not start When COM is open, screwdriver is able to start <ul style="list-style-type: none"> When DISABLE (shorted with COM), work LED lights ON for 5 seconds, then OFF, repeatedly.
CN11	CONFIRM	Input	External CONFIRM input		This switch feature and function is the same as CONFIRM on the panel, but no SELECT key function After press CONFIRM the NG signal will be release.



Control Panel Specifications (Continued)

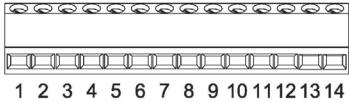
I/O Map (Continued)

No	Name	In/Out	Content	Wave Patterns of Signals	Remark
CN12	GATE	Input	External sensor switch	<p>SW2:ON SW4: OFF</p> <p>SW2:ON SW4: ON</p> <p>OFF</p>	Input a confirm signal for machine to start working. Sensor Switch: External device, you can connect one or two switches.
CN13	CLR	Input	External device CLEAR switch		External clear switch, same as clear button on the panel. It also can disable NG signal when it is triggered
CN14	COM				CN8 ~ CN13output/input signal COM port



Control Panel Specifications (Continued)

I/O Connector Panel



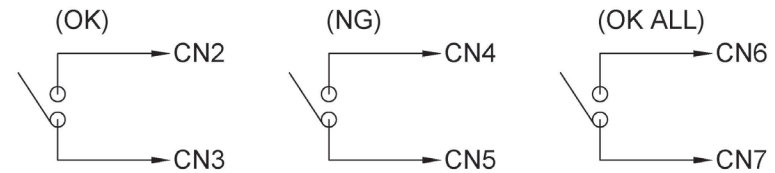
- CN1(V+) and CN14(COM) can provide DC 24V(Default) · (DC +12V need to custom modify)
- If users need different DC voltage, they must use their own step-down circuit to decrease voltage.
- If user needs to input voltage to drive an alert instrument, do not use over DC +/-40V I, +/- 250mA voltage.

Control Panel Specifications (Continued)

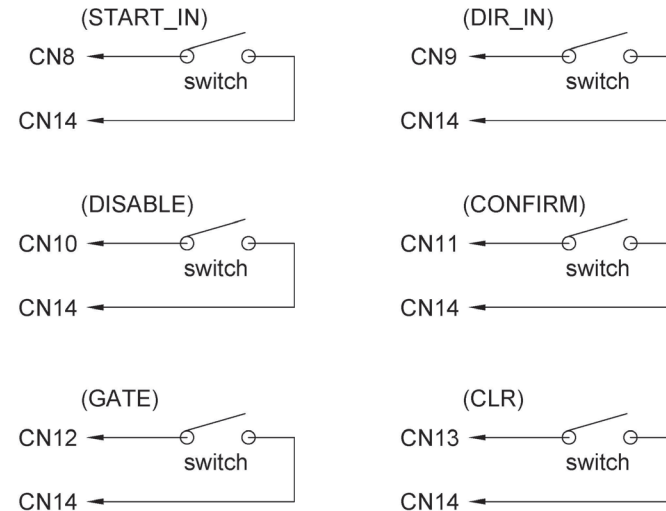
I/O Connector Panel

Terminal Connecting Diagram: (To take factory default: MOS RELAY I/O for example)

Output:



Input:

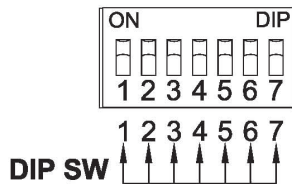




Control Panel Specifications (Continued)

Functional Dip Switch

SW	Name	OFF	ON
1	Counting Mode	Count Backward	Count Forward
2	Sensor Switch	Stop	Work
3	Manual Confirm Mode	Auto Zero	Start the Manual Confirmation
4	Switching Mode	Once Confirm	Twice Confirm
5	Automatic Simulation Learning Mode	Stop	Work
6	Unit Layout Mode	Stop	Work
7	Resume reverse	Only one screw count backward	Enable to count backward within the screws quantity



Control Panel Specifications (Continued)

Functional Dip Switch (Continued)

Instruction







- SW1** Select ON, counts screw number forward as 1-----2-----3-----4-----5-----1...
Select Off, count down the screw number as 5-----4-----3-----2-----1-----5...
- SW2** Sensing Switch, select ON means counter needs external sensing switch, 68639 (TLB-PS801-C)/68632 (TLB-PS61-C) must be in accordance with the sensing switch mode to determine if electric screwdriver will work. Select OFF means unnecessary for external switch, count number does not have to consider external switch to determine if it works.
Note: SA settings will affect SW2 = ON, SW4 = OFF the SENSOR drive mode, please refer to the SA setting for detail information.
- SW3** The Manual Confirm Mode: if ON is selected, which stands for manual reset, user must press "SELECT/ CONFIRM" / external CONFIRM (CN11+CN14) Key on the back of the panel, otherwise electric screwdriver is not confirmed on the device and is unable to start. Selecting OFF confirms the auto zero function.
- SW4** Switching Mode: Select ON means the external SENSOR needs to have two signals sent to 68639 (TLB-PS801-C)/68632 (TLB-PS61-C) to identify the fastener has been removed. Therefore two confirming signals allow 68639 (TLB-PS801-C)/68632 (TLB-PS61-C) to start the electric screwdriver to run. Select OFF means only one SENSOR is needed to confirm the fastener has been removed - this allows electric screwdriver to work.
- SW5** Automatic Simulation Learning Mode: The counter counts the number of screws assigning a value of OK & NG as set by Ht and Lt. Auto-Learning Mode evaluates the screwing time from beginning to complete fastening. User can only change this switch to ON. The system will ask how many screws (SC) of the fastening position are required (SL). If needed, auto response time setting (At), slow-start setting (Rc), or slow start speed (SP) can be set.
- SW6** Unit Layout Mode: The memory can save and automatically arrange five units.
- SW7** Resume reverse: User can turn on the resume reverse switch to loosen screws. If this switch is ON, the system is able to count backward throughout the quantity of screws to be fastened. If the reverse resuming switch is OFF, the system only counts the last screw.
- NOTE:** Multiple cycles (SW6 : ON) :
- If $rr=0$, and $Sr=Y$ or $Sr=N$, the reverse will be added to the U1 setting number.
 - If $rr>0$, The screwdriver will not reverse and will not add to the screw count. At this point the user presses the CLEAR button or uses CN13 to clear the count value and restart the operation. If user wants to reverse all screws, turn off the counter before starting reverse.



Control Panel Specifications (Continued)

Functional Dip Switch (Continued)








Confirm

Code	Instruction	Notations
	Confirm one external sensor. SW2 (ON)+SW3(OFF)+SW4(OFF)	External sensor * When the SA is set to HI, the display "C1"; If set is LO and will displayed "C.1"
	Confirm two the external sensor. SW2 (ON)+SW3(OFF)+SW4(ON) • When error occurs, sensors need to be triggered again. The panel will show "Er", press the "CONFIRM" on the panel or short the circuit -- CN11+CN14 to erase "Er", then the panel will indicate number of screw left in the previous job.	External sensors
	Manual confirm SW3 (ON)+SW2(OFF)+SW4(OFF)	Panel / External CONFIRM
	External SENSOR confirm + CONFIRM button on the panel, or short the circuit CN11+CN14 SW2(ON)+SW3(ON)+SW4(OFF)	External sensor + Panel / External CONFIRM * When the SA is set to HI, the display "C4"; If set is LO and will displayed "C.4 "
	Two external SENSOR confirms + confirm button on the panel, or short circuit CN11+CN14 SW2(ON)+SW3(ON)+SW4(ON)	External sensors + Panel / External CONFIRM
	Reset to the default setting	CLEAR

Control Panel Specifications (Continued)

Functional Dip Switch (Continued)

Entry Code on LED Description

Code	Definition	Description
	Low Voltage Protection	1. Screwdriver will stop when the voltage drops. 2. LED will display [E3] to indicate low voltage protection.
	High Temp. Protection	1. Screwdriver will stop when the operation temperature is too high. 2. LED will display [E4] to indicate high temperature protect.
	Stall Protection	1. Screwdriver will stop when motor is stalled. 2. LED will display [E5] to indicate stall protect.
	Push Plate Error	1. Screwdriver will stop when the Forward/Off/Reverse switch is changed while motor is running. 2. LED will display [E7] to indicate abnormal operation.
	Brake Error	1. Screwdriver will stop when the abnormal brake signal appears 2. LED will display [E8] to indicate abnormal brake error.
	Memory Error	1. Screwdriver will stop when the internal flash memory fail. 2. LED will display [E9] to indicate internal flash memory error.
	Power Error	1. User changes the Hi/Lo switch status after the key is locked. 2. Power setting does not match the screwdriver's DC voltage specification. (e.g. DC 40V screwdriver connects to DC 24V setting on controller).



Control Panel Specifications (Continued)

Functional Dip Switch (Continued)

Entry Code on LED Description (Continued)

- If the error occurs during the external mode confirmation, the system will detect the abnormal state. The LED will show error code Er and the buzzer will sound. The operator must confirm the external sensor (CN11 + CN14) or press CONFIRM



- When setting up 3 units in a batch, set U4 to "00" and SW6 switch ON, the system will automatically cycle from U1~U3~U1



System Setting

System Procedure

SL<SELECT>SC<SELECT>At<SELECT>Rc<SELECT>SP<SELECT>Ht<SELECT>H<SELECT>LL<SELECT>Ns<SELECT>rt<SELECT>rr<SELECT>rs<SELECT>SAVE
↑

Process to Set-Up System

- Please connect the cord, turn on the power switch until LED shows number.
- Press **SELECT** key for three seconds until the buzzer sounds, the panel will show **SL,01**. Push UP/DOWN to decrease or increase the number. System can set up to five units.
- Press **SELECT** key and the buzzer will sound. The panel will show **SL,01**. Push UP/DOWN to increase or decrease number. The maximum number set can be 99.
SC: To set up counting number
- Press **SELECT**, the screen will show **AC,0.0**. Push UP/DOWN to increase or decrease the number. The maximum can be set up to 9.9.
Rc: To set up slow-start time
- Press **SELECT**, the screen will show **At, 1.0**. Push UP/DOWN to increase or decrease number. The maximum can be set up to 9.9.
At: Automatic set up CLEAR time.
- Press **SELECT**, the screen will show **SP, LO**. Push UP/DOWN to increase or decrease number between L0~L9. The maximum can be set up to L9.
SP: To set up speed of slow star
- To press **SELECT**, the screen will show **Ht, 2.0**. Push UP/DOWN to increase or decrease number, the maximum can be set up to 9.9.
Ht: Stop time.
- Press **SELECT**, the screen will show **Lt, 0.0**. Push POWER key to adjust decimals **00**. – Push UP/DOWN to increase or decrease number. The maximum can be set up to 99.
Lt: Set up Detect Start Time. "02." means 0 .02



System Setting (Continued)

Process to Set-Up System

9. Press **SELECT**, the screen will show **Ll, 0.0**. Push POWER key, adjust decimals **00**. — Push UP/DOWN to increase or decrease number, the maximum can set up 9.90.
Ll: Time Recording Delay Interval. The timer does not start to record during the Ll phase. "02." means 0.02.
10. Press **SELECT** to show **ns** on LED and press UP/DOWN for change the setting.
NS: choosing action or not for next screwing process when error occur during screwing.
N: unlock(default setting) Y: lock(need to press S for release)
11. Press **SELECT**, the screen will show **rt, 0.0**. Push POWER key, adjust decimals **00**. — Push UP/DOWN to increase or decrease number, the maximum can set up 99.
rt: Set up auto reverse time
12. Press **SELECT**, the screen will show **rr, 0.0**. Push POWER key, adjust decimals **00**. — Push UP/DOWN to increase or decrease number, the maximum can set up 9.99
rr: Set up auto forward time.
13. Press **SELECT**, the screen will show **rS, 0.1**. Push POWER key, adjust decimal **10**. — Push UP/DOWN to increase or decrease number, the maximum can set up 9.99.
rS: Set up forward pause time.
14. Press **SELECT 05** to confirm.



System Setting (Continued)

Process to Set-Up System (Continued)

Function Name	Set up Time and Value	Description	Buzz Time/ Light	Manufacturer Set-Up Value
SL	01~05	Screw list	---	---
SC	01~99	Counting number / count-down only	---	05
At	0.1~9.9	Automatic zero time / Signal output time	---	1.0
RC	0.1~9.9	Slow start time	---	0.0
SP	L0~L9	Start speed: L1~L9 (30%-90%) Rated speed	---	L0
Ht	0.0~9.9	Ht time. Stop time.	Five buzz and LED red flash	2.0
Lt	0.0~9.9	Lt time. Detect start time.	Two buzz and LED red flash	0.0
LL	0.01~9.9	Time Recording Delay Interval	---	0.0
NS	Y / N	Choosing action or no action for next screwing process when an error occurs during fastening.	LED show NS	N
rt	0.06~9.9	Auto reverse time. When the torque is reached, the screwdriver will start to reverse. (NOTE: rt value must exceed 0.05)		0.0
rr	0.00~9.9	Auto forward. When F/R switch is in reverse, set the number of seconds for reverse. The tool will reverse for the appropriate amount of time, pause for time rS, and then run forward until the torque is reached.		0
rS	0.10~9.9	When rr setting is greater than 0, the rS can be set for forward pause time.		0.1
Countdown	1 COUNT	When screwdriver is in reverse, the number will descend	---	---
Ln	---	Automatic learning.	LED keeps flash of light	---
Buzzer	Er Wrong Set-up	Wrong Set-Up, such as Lt>Ht	---	---

NOTE:

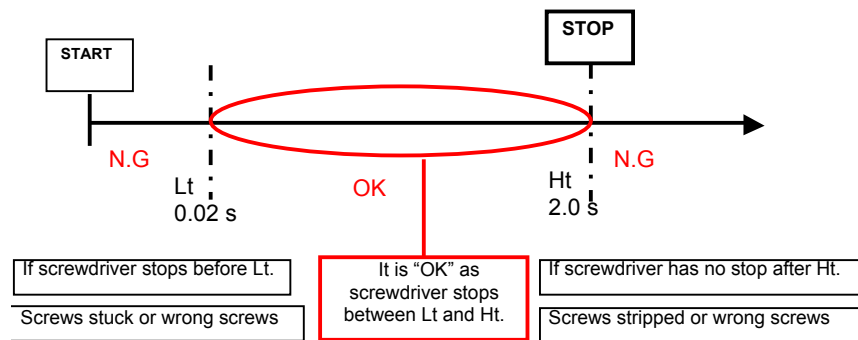
1. RC=0 or SP=L0 no slow start function
2. The RC & SP / LL settings cannot coexist
3. rt and rr settings cannot coexist



System Setting (Continued)

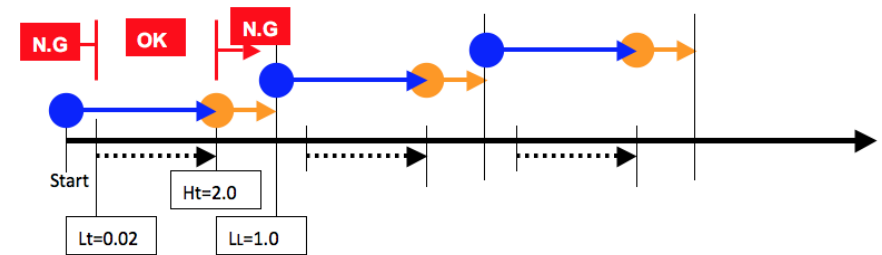
Data Chart

Ht/Lt sets up the period of time. If the tool stops within the set period, it means OK. In contrast, it will be (NG) if it stops before Lt or after Ht. The LT accepts 0.00, but it can be increased or decreased in SELECT.



System Setting (Continued)

Execute Under General Pre-Set Program:

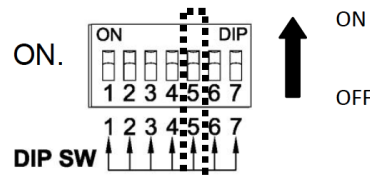


- If the screwdriver stop time is in dotted line. it is normal fastening. OK will be shown.
- If the screwdriver stop time is before Lt or over Ht stop is before Ht or over Lt, it is NG.
- User can freely adjust Ht. However, if Ht and Lt is closer, it will request more accuracy.
- If the user press the push button of the screwdriver after Ht and Lt setting, it is NG.



Simulated Learning

1. The switch mode SW5 change into ON.



- When SW5 switch is ON, it enters the simulated learning procedure and functions will not work.

2. LED will flash when it is ON. The user can set whether or not to count screws or whether or not to use the slow-start function.



3. When set-up is finished, the LED will show 0.0 and the user can begin to fasten screws. When the screwdriver starts, the LED will show the count. User can test until satisfied. If the user changes the SW5 switch to OFF, the system will set up Ht time automatically. (Note: Lt will be set to zero)
4. Alternatively, the user can change SW5 to OFF, push SELECT for three seconds, then enter menu to change.

System Procedure

SL<SELECT>SC<SELECT>AL<SELECT>RC<SELECT>SP<SELECT>HL<SELECT>LL<SELECT>NS<SELECT>RL<SELECT>RS<SELECT>SAVE

Grounding

When use the power supply, it should be grounded to avoid operator getting electrical shock. This power supply is equipped with 3 leading wires and 3 pins of grounding plug to fit for grounding type of outlet. The grounding wire must be connected firmly with power supply equipment for effective grounding result. The leading wire with yellow-green color is a grounding wire. Never attempt to connect this yellow-green color wire on electrified connector, this power supply has built-in grounding wire with electric leakage safety grounding and additionally, the power supply can eliminate ESD static, which is produced by running the electric screwdriver, via grounding wire.

Servicing

- Do not use the tool more than 8 hours a day.
- Do not let the motor and power supply get over heated. Do not run more than 10-15 screws/minute.
- If you use the tool more than 8 hours a day, have the tool evaluated for preventative maintenance.
- Inspect tool cords periodically. If damaged, contact ASG.
- Do not remove any labels.



WARNING

Using non-ASG replacement parts may result in decreased tool performance and increased maintenance and may void all warranties.

All repairs and maintenance of this tool must be performed by ASG. ASG is not responsible for customer modification of tools for applications on which ASG was not consulted.

It is the responsibility of the employer to place the information in this manual into the hands of the operator.

PLEASE NOTE: When repairing or replacing tools or components on any TLB Series purchased in 2016 or prior, please contact ASG representative



Warranty

The warranty is 1 year after delivery. If any troubles should occur, please contact ASG. In the following cases, the purchaser shall pay for parts and labor regardless of the terms of warranty:

- Failure due to improper handling.
- Failure due to product modification or improper processing.
- Failure due to causes beyond control (for example earthquake or fire).
- Consumables, replaceable parts, and replacement work expenses.

**DO NOT ATTEMPT TO REPAIR THIS ELECTRIC SCREWDRIVER
SAVE THESE INSTRUCTIONS - DO NOT DESTROY**