YOKOTA

YZ-T800A

Manual

FI

www.rami-yokota.com

Ennen käyttöönottoa

Lue nämä käyttöohjeet sekä ymmärrä niiden sisältö ennen tämän laitteen asennusta, käyttöä, korjausta, huoltoa tai osien vaihtoa.

Ainoastaan pätevä ja koulutettu henkilöstö saa suorittaa tämän laitteen asennus- tai säätötyöt ja sen käytön.

Charging the battery

Slide the battery in the charger, this should go smoothly otherwise the alignment isn't correct or the battery / charger grooves are damaged. In that case check the battery and charger and replace the damaged item, do not repair.

Cool down the charger when charging more than two battery packs consecutively.

Do not insert your fingers/ nails into contact hole, when holding charger or any other occasions.

Place charger in a relatively cool and well-ventilated area.

Plug charger into the AC outlet. CAUTION: Ensure that the power source to be utilized conforms to the power requirement specified on the product nameplate.

If the power lamp (red) does not light immediately or goes out soon after the charger is plugged in, consult an authorized dealer.

During charging, the charging lamp (green) will start flashing. When charging is completed, an internal electronic switch will automatically be triggered to prevent overcharging.

Charging will not start if the battery pack is warm. For example, immediately after heavy-duty operation. The yellow standby lamp will be flashing until the battery cools down.

Once the battery is fully charged, the green lamp will be lit to indicate the gone into a trickle charge mode.

When the battery is correctly installed, the red LED lights and charging starts. The cooling fan in the charger switches on or off depending on the battery temperature.

LED blinking green, battery is 80 % charged When the charging is complete, the LED lights green and you can remove the battery from the charger.

Battery charger LED indications:

LED Display condition			Charging condition
Color	Lighting condition		
OFF		OFF	Condition of plugging in ..
RED		Lighting	Charge in process
GREEN		Blinking	Practical charge (80%) completed
GREEN		Lighting	Charge competed
ORANGE		Blinking	Charge standing-by (Temperature of battery pack is high/low)
RED		Blinking	Charge impossible (abnormality etc. of battery pack)

Number of cycles per battery charge, based on maximum torque on hard application (0.5 seconds impulsing)

YZ-T600: 1300 cylces

YZ-T800: 800 cycles

YZ-T900: 700 cycles

YZ-T950: 950 cycles

Huomioi turvallisuusohjeiden määräykset!

Turvallisuus

Älä muuntele tätä laitetta millään tavalla koska muussa tapauksessa tämä voi aiheuttaa vaaratilanteen käyttäjälle.

Varmista, että käyttöohjeet ovat saatavana koko ajan vastuuhenkilöllä. Mikäli nämä käyttöohjeet katoavat tai tulevat lukukelvottomaksi, pyydä jälleenmyyjältäsi uusi kopio.

Varmista, että käytön aikana laitteesta ei sinkoile materiaalia koska tämä on vaarallista ja voi aiheuttaa tapaturmia.

Varmista, että työkappale on kiinnitetty luotettavasti paikalleen.

Varmista, että kiinnitetty terä tai muu varuste on asennettu oikein koska muussa tapauksessa ne voivat singota laitteesta suurella nopeudella ja aiheuttaa tapaturmia.

Varmista, että muille henkilöille ei aiheudu vaarallisia olosuhteita laitteen käyttöpaikalla.

Varmista, että työkappale on kiinnitetty luotettavasti paikalleen (sama lause kuin 5 kohdassa).

Käytä aina suojalaseja laitteen käytön aikana. Suojausasteen täytyy olla suhteessa käyttöriskeihin.

Koneeseen kytketyt pyörivät työkalut voivat helposti takertua kumipäällysteisiin tai metallilla vahvistettuihin käsineisiin.

Pidä sormet kaukana asennetusta terästä tai varusteesta.

Älä koskaan pidä käsilläsi kiinni pyörivästä käyttöakselista, istukasta, terästä tai laitteeseen asennetusta muusta varusteesta tai työkalusta.

Isku- ja ruuviväänтimet: Käytä ainoastaan iskuvääntimeen tarkoitettuja istukoita, katso lisätietoja esitteestämme.

Suosittelemme turva- ja suojakäsineiden käyttöä.

Kuulosuojaimien käyttö suoritetaan työnantajaliiton ohjeiden, sekä työsuojelumääräysten mukaisella tavalla.

Perusteltuja varotoimenpiteitä on noudatettava melutason pitämiseksi niin alhaisena kuin mahdollista.

Tarkasta aina, että asennettava terä ja varuste ei ole vaurioitunut. Murtuneet ja lentävät sirut voivat aiheuttaa tapaturmia.

Pidä pyörivät osat kaukana mistä tahansa kehon osasta.

Sido pitkät hiukset hiusverkolla koska muussa tapauksessa ne voivat takertua laitteeseen ja aiheuttaa tapaturmia.

Älä koskaan käytä roikkuvaa vaatetusta, koska muussa tapauksessa ne voivat takertua laitteeseen ja aiheuttaa tapaturmia.

Käytä ainoastaan tälle laitteelle tarkoitettuja valmistajan suosittelemia varusteita.

Tarkasta, ettei luvattomia henkilöitä oleskele laitteen käyttöalueella tai vaara-alueella.

Tämän laitteen käyttäjän suositusikä on 18 vuotta.

Pidä työalue puhtaana ja hyvässä järjestyksessä. Muussa tapauksessa voit kompastua ja kaatua lattialla olevaan letkuun. Liukkaat ja epäsiistit lattiat ovat tapaturmien pääsyitä.

Tätä laitetta ei ole suunniteltu käytettäväksi mahdollisesti räjähdysvaarallisilla alueilla ja sitä ei ole eristetty sähkövirtakosketukselta.

Käytä tarkoitukseen soveltuvaa miellyttävää vaatetusta, joka soveltuu työpaikalle.

Käytä suojakypärää yläpuolella sijaitsevien työsuoritusten aikana.

Never let the tool run free in the air: the accessory may come loose and become a projectile causing danger or injury

Only use accessories that are in good condition, worn accessories can be dangerous and cause injuries.

Only trained and qualified operators should use the tool.

Never use a damaged tool.

Tools shall be inspected periodically to verify that the ratings and markings required by the applicable part of the ISO 11148 series are legibly marked on the tool. If not the user/employer shall obtain replacement labels from the dealer or manufacturer.

Use only tight fitting gloves, loose gloves can be trapped or entangled causing injuries.

Use the specified gloves for the application that protects against: heat, cold, entanglement, cutting, impacting

Do not wear any shawls jewelry etc that can be trapped or entangled causing injuries.

In case of power loss, release the trigger immediate.

Make the possible countermeasures to minimize noise emission: if possible, use silence materials on the workpiece or walls around the work station.

A risk assessment related to the noise emission at the work station on the work piece has to be made to determine the correct ear protection according to health and safety regulation.

A risk assessment related to the vibration exposure to determine the maximum working hours per day for the operator. Vibration can cause damage to blood vanes and nerves (white finger disease). Hold the tool with light but safe grip, higher grip force can increase vibration effects.

Battery Safety

Do not disassemble or modify the battery pack and battery charger, doing so may result in heat generation, fire, electric shock, or injury.

Do not throw the battery pack into fire or heat it, doing so may result in rupture or release of hazardous substances.

Do not drive a nail or give an impact such as fall on the battery pack or battery charger. Doing so may result in heat generation, fire, electric shock, and/or injury.

Do not short-circuit the terminals of the battery pack.

Do not carry or store the battery pack with metal object such as nail. Doing so may result in smoking, ignition, or rupture.

If the battery pack gets hot during its use, stop using it immediately and contact your sales outlet or sales agent.

If the battery pack leaks, avoid contact with the substance, stop using it and contact your sales outlet or sales agent.

Charge the battery pack in well-ventilated place. While charging, do not cover the ventilation openings on the battery pack and battery charger with cloth. Doing so may result in rupture or fire.

Do not charge the battery pack at less than 0℃ or more than 40℃. Doing so may result in rupture or fire.

Do not store the battery pack in a place reaching over 50℃. Doing so may cause deterioration of the battery pack and may result in smoke or fire.

Attach an anti-short-circuit cap after the battery pack is removed from the tool or the battery charger or when the tool is not used. Failure to do so may result in short-circuit of the terminals of the battery pack and fire.

Do not expose battery cartridge to water or rain. A battery short can cause large current flow, overheating, possibly burns and even a break-down.

Do not dispose of battery packs into household waste, fire or water. Battery packs should be collected, recycled or disposed of in an environmentally-friendly manner.

If the electrolyte of the battery gets in your eyes, do not pass your hand over your eyes, but flush them with plenty of clean water and seek medical attention. Failure to do so may result in loss of vision.

If the electrolyte of the battery comes in contact with body part or clothes, rinse with a plenty of clean water and seek medical attention. Failure to do so may result in dermal inflammation or injury.

If the tool is not used for long time, fully charge the battery pack before storage. Even during storage, fully charge the battery pack at least once every six months. Otherwise, over-discharge of the battery pack may prevent it from charging.

Electrical Safety

This product is for the indoor exclusive use. Do not use it in rain, in a damp place and a wet place. Moreover, never use it in a place with the fear of the ignition and the explosion, because those are hazardous situations.

Do not move by holding the power cord. Do not pull the cord to remove the plug from the socket-outlet.

Avoid damage of cord due to stepping, entangling, or unreasonable force, a damaged cable must be replaced immediate.

Avoid pinching of power cord in the object to be tightened or surrounding facility in the tool operation and avoid the contact with rotating parts. The power cord may be damaged and it may result in accidents.

Use the battery charger at rated supply voltage (AC 100-240 V).

Do not use DC power supply, engine generator, or power transformer.

Keep away from sources generating large electromagnetic noise, such as welder, DC brush motor.

Be sure to use the provided power supply cord. Use of other power supply cord may cause malfunction, heat generation, or fire.

Be sure to fully insert the power plug. Failure to do so may result in electric shock or fire due to heat generation.

If you do not use the product, unplug from the receptacle.

Wipe out dust or stain accumulated on the power plug or receptacle with a dry cloth. Failure to do so may result in electric shock or fire.

Do not insert or remove the power plug from the receptacle with wet hand. Doing so may result in electric shock.

Never disassemble or modify the charger.

Varusteet:

Käytä ainoastaan tälle laitteelle suunniteltuja työkaluja ja kulutusmateriaaleja.

Valitse paras mahdollinen terä/asennettava varuste/kulutusmateriaali alhaisimmalla melu- ja tärinätasolla. Mikäli melu- tai tärinätaso kasvaa, vaihda nämä osat.

Älä käytä kuluneita tai huonosti kiinnittyviä iskuvääntimen istukoita tai jatkohylsyjä koska tämä kasvattaa melu- ja tärinätasoa.

Ruuvivääntimille suosittelemme käytettäväksi ”supistusholkkeja” melu- ja tärinätason minimoimiseksi.

Varmista, että terä/asennettava varuste/kulutusmateriaali on kiinnitetty oikein paikalleen kiinnikkeellä ja varmista, että kiinnike on hyvässä kunnossa. Älä koskaan käytä laitetta, ilman että kiinnike on paikallaan koska tämä voi aiheuttaa materiaalien sinkoilua kovalla nopeudella.

Only use impact rated sockets when using impact or impulse wrenches.

Laitteen käyttö:

Ennen laitteen käynnistämistä, varmista, että tunnet työpaikan ja sitä ympäröivän alueen.

Noudata aina työpaikkasi turvallisuusmääräyksiä.

Laitteen käytön aikana käyttäjä voi altistua vaaratilanteille kuten, puristumiselle, iskuille, kuumuudelle, tärinälle, haavoille, hankautumille jne. Käytä tarkoituksen mukaisia suojakäsineitä.

Kaikkien laitetta käyttävien henkilöiden täytyy kyetä käsittelemään laitteen kokoa, painoa ja sen tehoa.

Huomioi aina etukäteen laitteen tuottama normaali/epänormaali liike/teho.

Pidä kehosi tasapainossa, aseta jalkasi turvallisella ja luotettavalla tavalla.

Tehokkaita työkaluja käytettäessä voi käyttäjä tuntea väsymystä käsissä, käsivarsissa, olkapäissä, niskassa ja muissa kehon osissa.

Mikäli tunnet oireita, kuten jatkuvaa tai toistuvaa väsymystä, kipua, sykkimistä, särkyä, pistelyä, puutumista, polttamisen tunnetta tai jäykkyyttä: älä ohita näitä varoitusmerkkejä. Lopeta laitteen käyttö, kerro työnantajallesi ja ota yhteys pätevään terveydenalan ammattilaiseen.

Check if the direction of rotation is in the required direction.

Adjust the torque according the requirements for the application, see below paragraph: Adjustments.

Place the tool with the accessory on the bolt/nut screw.

Pull the trigger to start the tool and release the trigger to stop the tool.

Do not overtighten the bolt/nut/screw, a broken part can become a projectile causing danger or injury.

When loosening the bolt/nut/screw may become a projectile causing danger or injury.

Standby / working mode

After inserting the battery the tool will be in standby mode, pull the trigger once to switch into working mode. Take note that the tool will rotate pulling the trigger in standby mode.

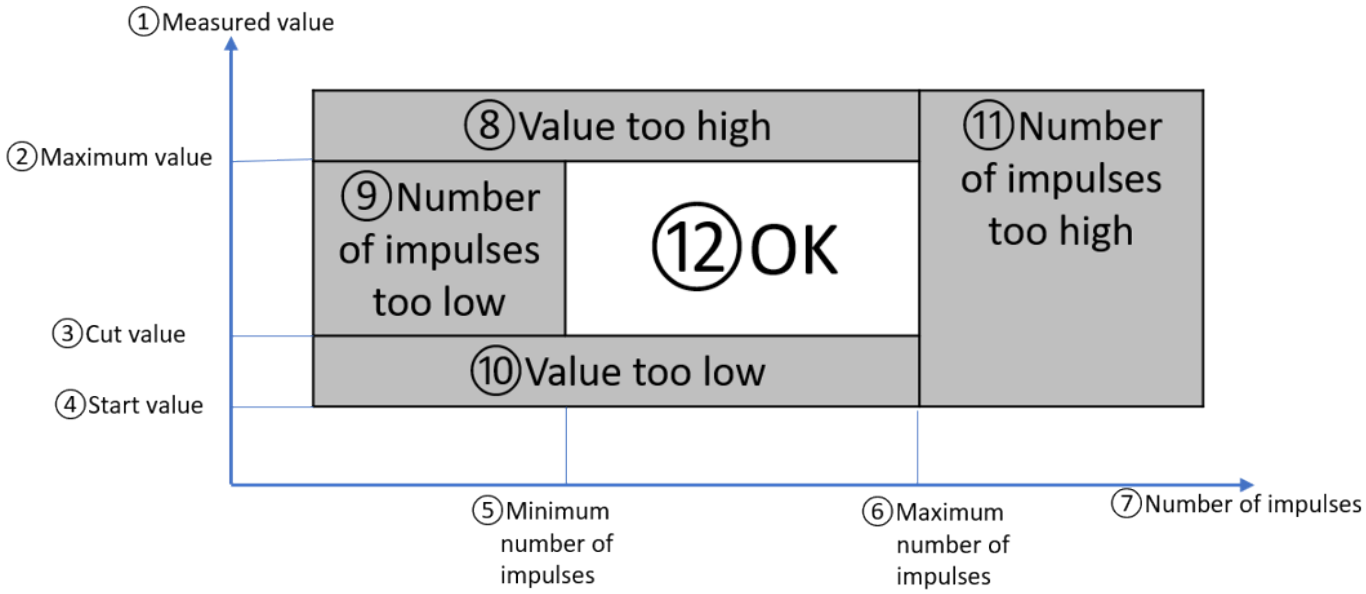
After pulling the trigger the LED on the grip will light according to the speed setting and the fan will be activated. The tool returns to standby mode after 15 minutes of no use.

Torque adjustment

The Yokota YZ-T series are battery hydraulic shut-off impulse wrenches with electronic controlled shut-off.

The electronics measure the load on the motor of each impulse. The load on the motor is called “value”. The higher the value, the higher the torque in the joint. The number of impulses are counted also.

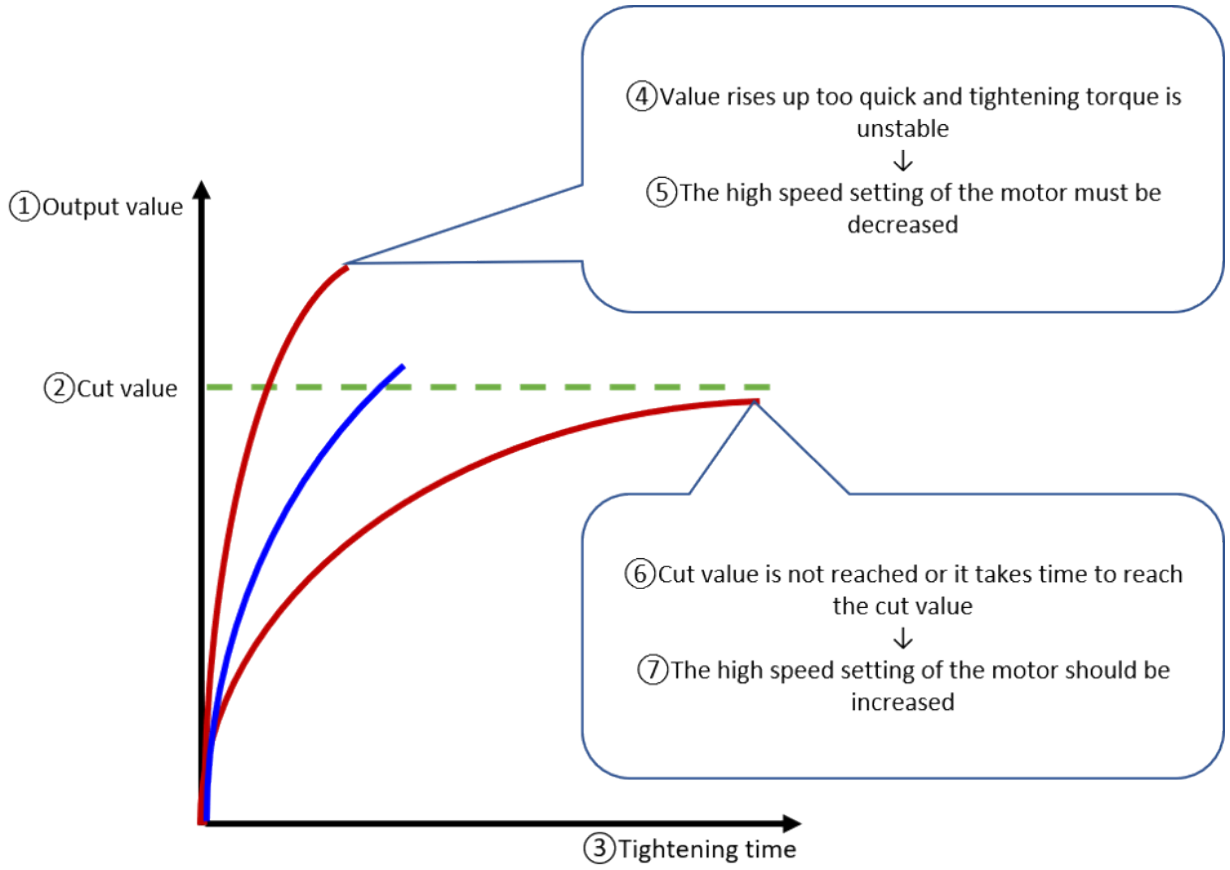
After the shut-off, the cycle will be judged as OK or NOK according below chart. For OK both the value and number impulses must be within the set tolerance.



1	Measured value
2	Maximum value
3	Cut value

4	Start value
5	Minimum number of impulses
6	Maximum number of impulses
7	Number of impulses
8	Value too high
9	Number of impulses too low
10	Value too low
11	Number of impulses too high
12	Cycle OK

The torque (reached in the joint) is depending on 3 settings:



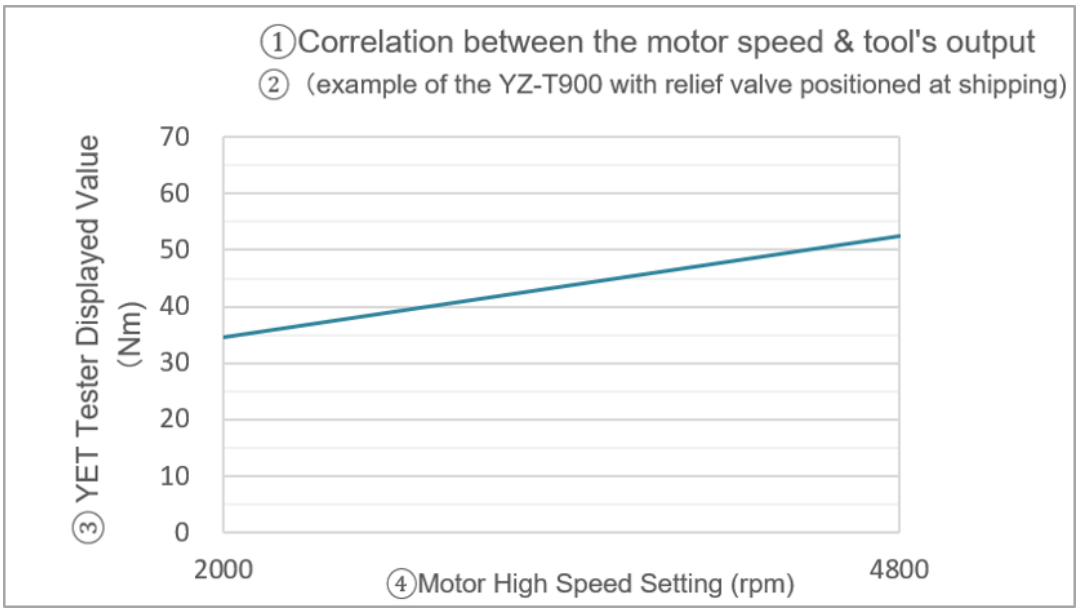
1	Output value
2	Cut value
3	Tightening time
4	Value rises up too quick and tightening torque is unstable
5	The high speed setting of the motor must be decreased
6	Cut value is not reached or it takes times to reach the cut value
7	The high speed setting of the motor should be increased

1	Correlation between the motor speed & tool's output

2 (example of the YT-T900 with relief valve positioned at shipping)

3 YET Tester Displayed value

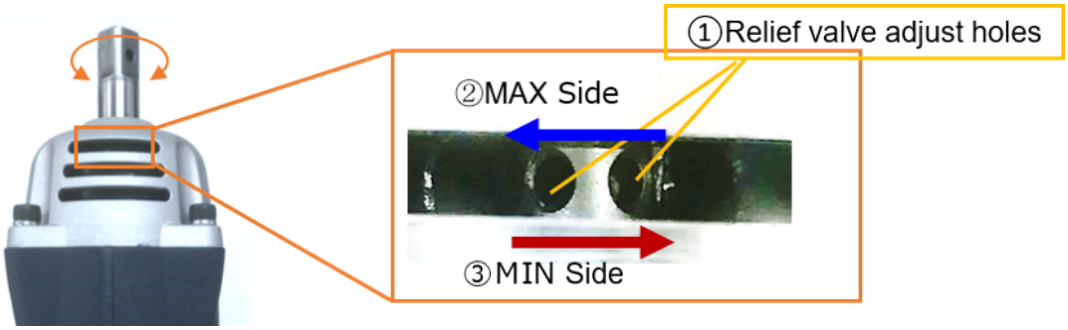
4 Motor High Speed Setting (rpm)



The above shows the influence of the motor speed on the torque output, this is an example of the YZ-T900 tested on the static torque tester YET-1001C.

Relief valve adjustment:

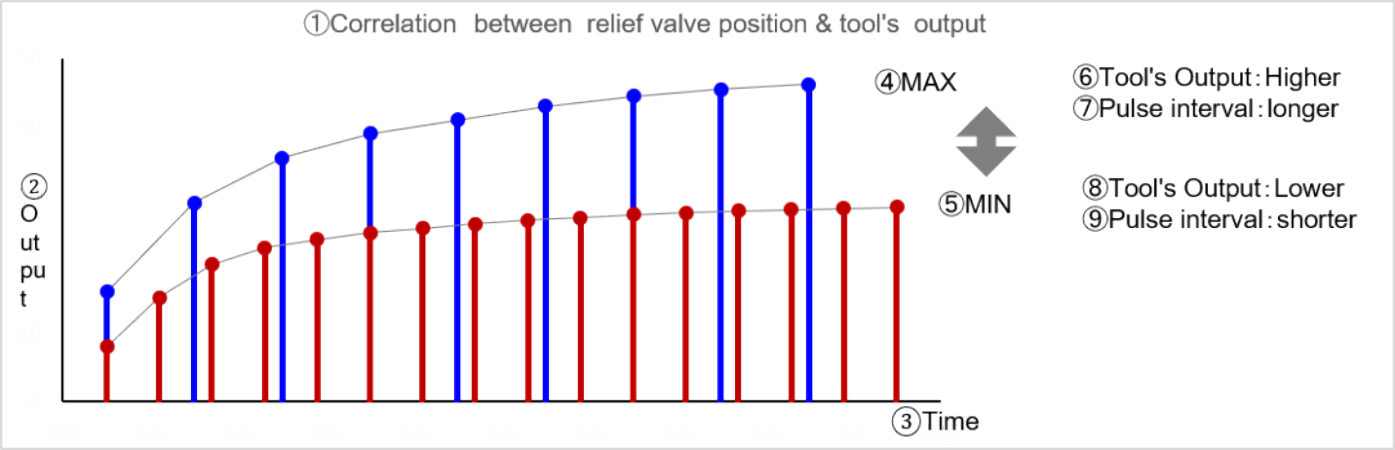
- Adjusting the tool's output with the relief valve, mechanical adjustment on the impulse mechanism.
- Always take off the battery when adjusting the torque output with the relief valve on the impulse mechanism.
- Use the TF pin (2mm x 90mm, supplied with the tool in the box).
- Rotate the main shaft until the adjust screw is visible, turn left to increase the torque output and turn right to decrease the torque output.



1 Relief adjust holes

2 Max side, increase torque

3 Min side, decrease torque



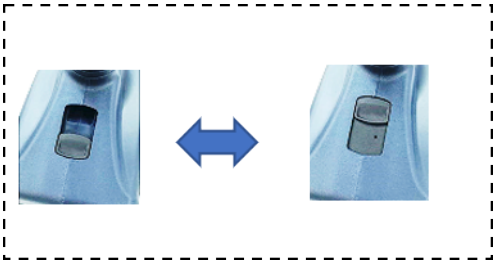
1	Correlation between relief valve position and tool torque output
2	Output (tool torque)
3	Time
4	Max = maximum adjustment
5	Min = minimum adjustment
6	Tool output: Higher
7	Pulse interval: longer
8	Tool output : lower
9	Pulse interval : shorter

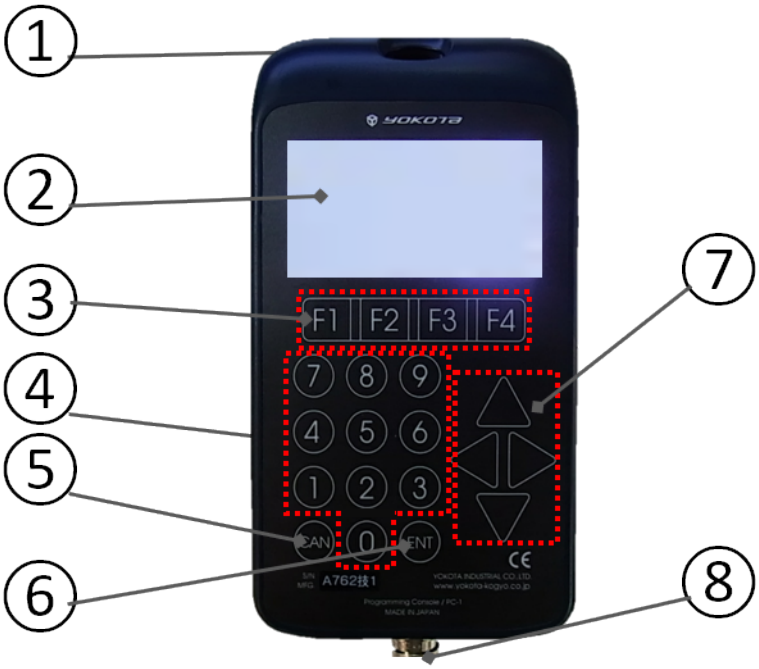
Never adjust fully at max or min, always at least 60 degrees from min and max.

Using the Programming

Console PC-1

Connect the PC-1 with cable CC-1 to the tool.

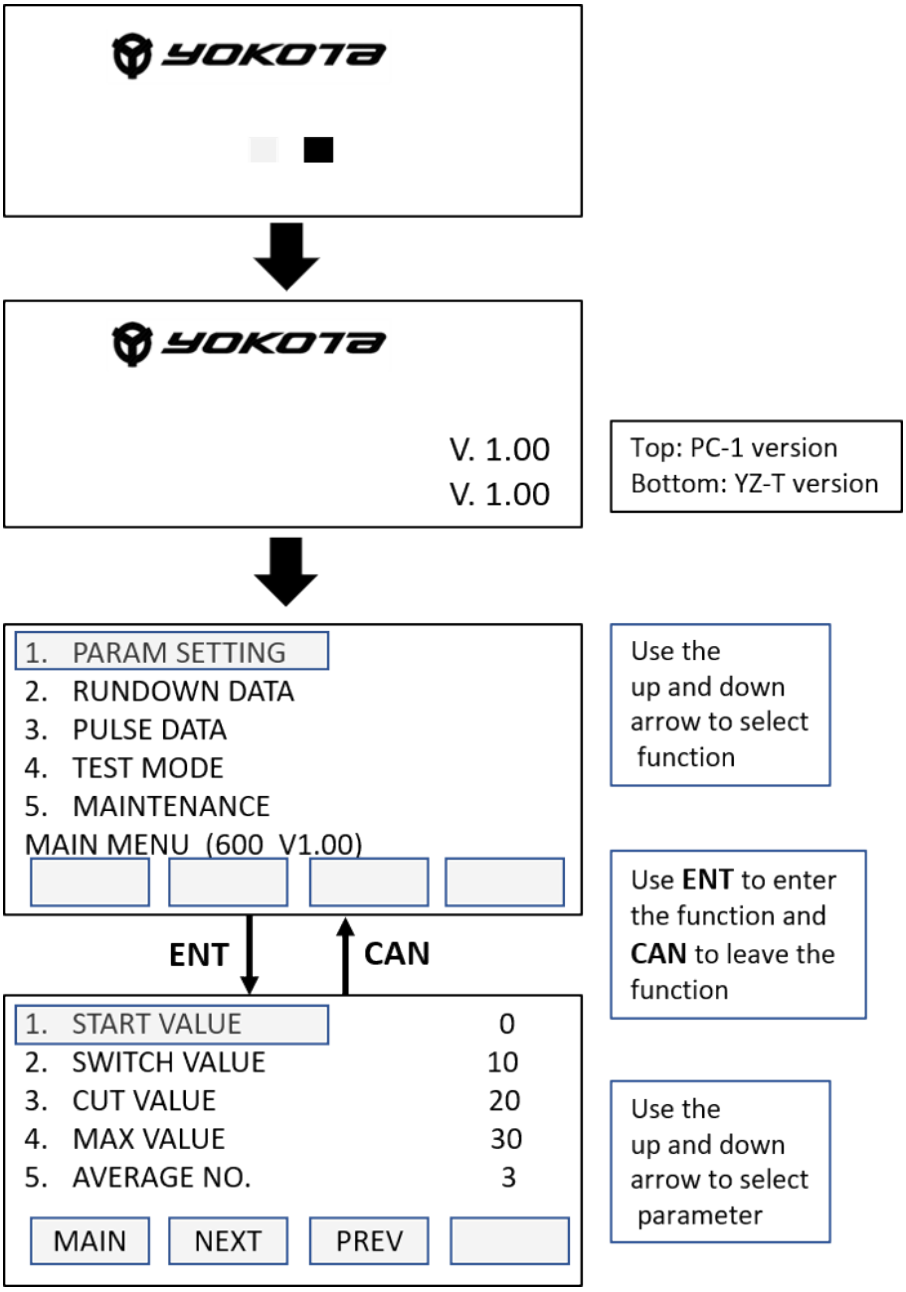




1	Mounting hole	
2	Display screen	Displays tightening result, setting item and set value
3	Function key	Switching of tightening screen, setting screen and or of display screen
4	Numeric key	Enter the set value
5	CAN key	Return to the previous screen
6	ENT key	Determine items and input value
7	Up, down, left and right key	Move the selection of setting items up and down
8	PRC05 connector	Cable connector

Start Screen

After connecting the PC-1 with cable CC-1 to the YZ-T tool it will take approx. 5 seconds for the PC-1 to start up, please see below following screens:



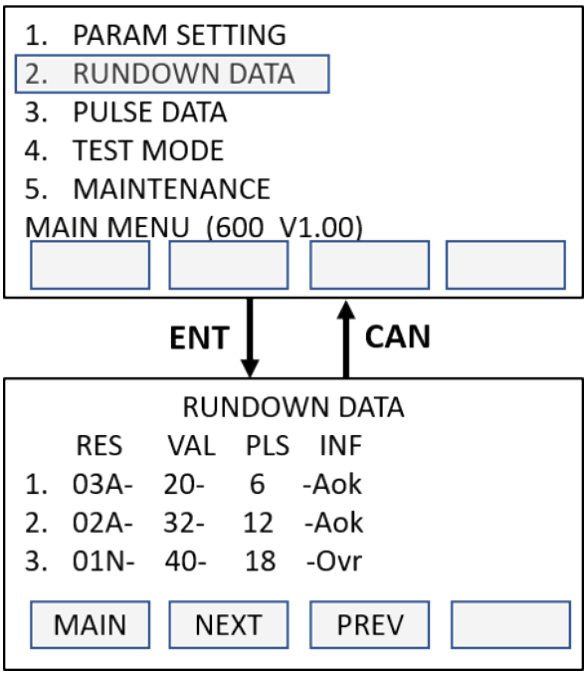
Entering the value for each parameter:

- Press Ent to enter Parameter setting
- Press Ent to enter Start value
- Use the Left/Right arrow for the digit to be set, use the numeric keypad to enter the values, after entering the correctalue use ENT to confirm and to leave the parameter, or use CAN to cancel the input value. Use Up and Down arrow to select the next parameter to be set.
- Press NEXT key to enter the next page of parameters to be set or PREV to previous page.
- By pressing MAIN or CAN key you return to Main Menu screen.

Rundown data history

The tool has a memory for the rundown data of the last 50 cycles.

Select RUNDOWN DATA with the Up and Down arrow keys and press ENT to enter this function.

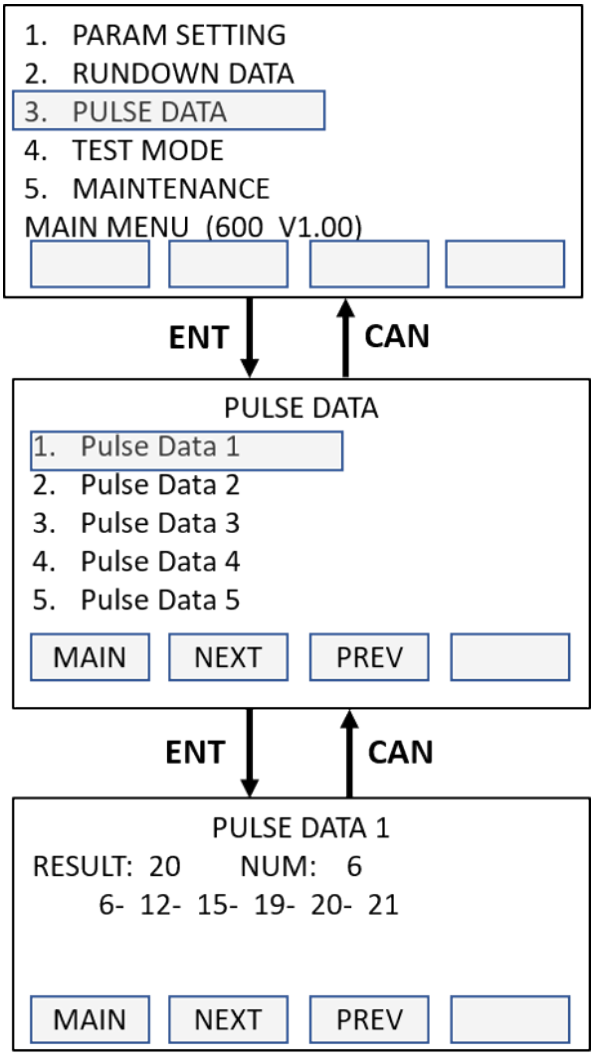


Item	**Explanation**
Rundown sequence	1 - 99
RES = total judgement	Tightening judgement OK or NOK A: tightening OK N: tightening NOK
VAL = Output Value	Output value at shut-off
PLS = number of impulses	Number of impulses from Start value to value tool shut-off
INF = tightening result details	Aok = OK Udr: under, tool shut-off below cut value Ovr: shut-off at value higher than max value N55: shut-off at too low number impulses N57: shut-off at too many impulses Slw: number of impulses exceeded the slow error impulses(70) including the number of impulses below start value

Impulse data history

The tool has a memory of the last 5 tightenings with the value of each impulse.

Select PULSE DATA with the Up and Down arrow keys and press ENT to enter this function.



Result: 20 = the average on which the tool has shut-off.

NUM: 6 = number of impulses, including the impulses lower than start value.

6- 12- 15- 19- 20- 21 = the value of each impulse.

If you have a high number of impulses it will not fit on one screen, press NEXT to move to the next or press PREV for previous screen.

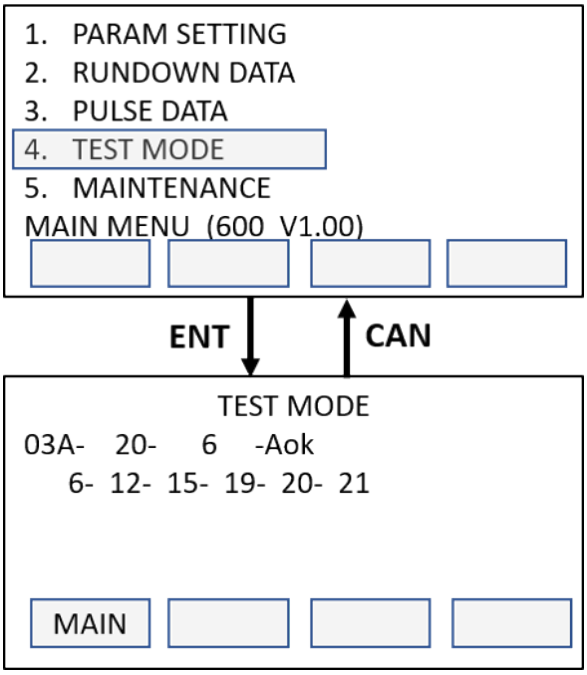
Test Mode.

In the test mode the tool can be operated without shut-off. After releasing the trigger, the screen will show the value of each impulse. This function can be used for parameter setting, output adjustment and tightening analyze (hard or soft joint).

When using this function take care of the CC-1 cable connected to the tool, so it won't entangle with rotating parts or cause dangerous circumstances.

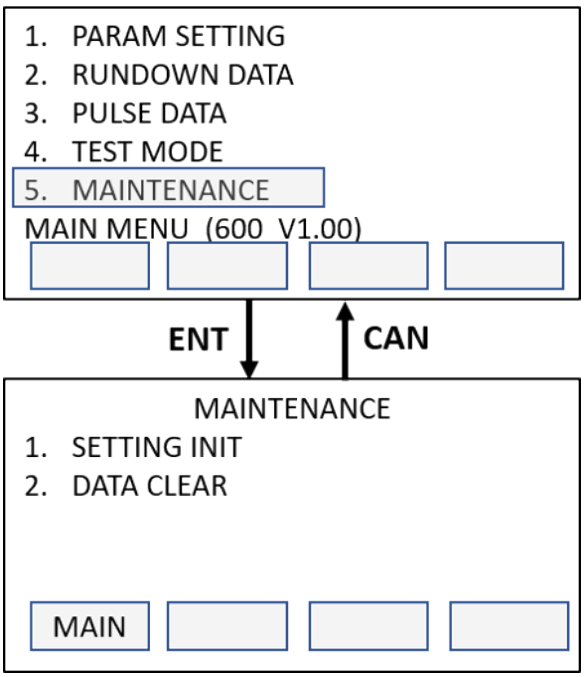
To use this function: Connect the PC-1 to the tool with the CC-1 cable.

Select TEST MODE with the up and down arrow keys and press ENT to enter this function.



Maintenance.

Select MAINTENACE with the up and down arrow keys and press ENT.



Selecting SETTING INIT or DATA CLEAR with the up and down arrow and press ENT.

1: SETTING INIT = initializing the parameter setting back to default value.

2: DATA CLEAR: deleting all data stored in RUNDOWN DATA and PULSE DATA.

Explanation of each parameter

Parameter	Range	Default value
Start value Display start value, the value below the start value will be ignored, judgement will not be made. Impulses below this start value will not be counted for the max number of impulses. Start value ≤ Switch value ≤ Cut value ≤ Max value	10 ~ 150	10
Switch value Value to switch motor speed from middle speed to high speed Switch value ≤ Cut value ≤ Max value	10 ~ 150	10
Cut value Shut-off value, as soon as the tool reaches this value the tool will shut-off Cut value ≤ Max value	20 ~ 150	20
Max value If this value is exceeded the tightening will be judged as NOK Max value ≥ Cut value	20 ~ 150	20
Low speed rpm Tool rpm at the first step of the trigger	1200 ~ 1500	1200
Middle speed rpm Tool rpm at the second step of the trigger	1500 ~ 3000	2000
High speed rpm Tool rpm switches from middle speed to high speed at reaching the switch value	1500 ~ 4800 YZ-T600 2000 ~ 4800 others	3000
Average num The value is calculated as an average over the last 2 or 3 impulses	2 ~ 3	3
Max puls Maximum number of impulses, at exceeding this number of impulses (before reaching cut value) the tool will shut-off and the tightening will be judged as NOK	1 ~ 70	30
Min puls Minimum number of impulses, if the tool shuts-off before this number of impulses (reaching the cut value) are made the tightening will be judges as NOK.	1 ~ 70	2

Slow Error Impulses:

Tool will shut-off after making more than 70 impulses, including those below start value. The tightening will be judged as NOK (Slow error).

YZ-T setting procedure:

Please set the parameters with the PC-1 as below:

- Start value : 10
- Switch value : 10
- Cut Value : 150
- Max Value :150
- Average: 3
- Low speed : 1500 rpm
- Middle speed: 3000 rpm
- High speed: 4800 rpm
- Min impulses: 2
- Max impulses: 70

Make a test cycle, be aware the tool will only shut off automatic after the maximum number of 70 impulses, please release the trigger at the moment the socket doesn't rotate anymore.

Torque measuring / checking can be done with a torque wrench or rotary transducer on the actual application. Please make at least 2 cycles and check the torque in the joint before making any changes in the adjustment or settings.

- Please start with the relief valve at minimum setting to prevent damage to the product with a too high torque.
- Set the torque higher if needed by the relief valve.
- If torque is OK please check the value with PC-1 in Test Mode.
- Set the Cut value according the stabilized value found with the test mode.
- Adjust the relief valve just a little higher or set the high speed a little higher.
- Set the minimum and maximum number of impulses according the hardness of the application.
- Set the start value and the switch value according the hardness of the application.

The number of impulses:

In order to get a good quality joint with the correct clamp-force and a good repeatability, a certain number of impulses should be made, this number of impulses depends on the kind of joint (hard or soft).

For a hard joint 6 – 10 impulses and a soft joint 12 – 40 impulses depending on the softness of the joint.

Changing the speed and or the cut value will have an influence on the number of impulses.

For Yokota impulse wrenches we advise to do a preventive oil change maintenance after 250.000 cycles. 1 cycle is 0.5 seconds impulsing (hard joint). Oil change is including replacing the service kit.

Huolto:

Tarkasta laite säännöllisesti löysien pulttien/ruuvien tai osien varalta.

Mittaa laitteen kierrosnopeus säännöllisesti. Mikäli kierrosnopeus on korkeampi tai alhaisempi kuin teknisissä tiedoissa on mainittu: sammuta laite välittömästi ja toimita se korjattavaksi.

Mikä laitteen teho on heikentynyt, toimita laite korjattavaksi.

Ainoastaan koulutettu ja pätevä henkilöstö saa suorittaa laitteen säätö- ja korjaustyöt.

The tool should be maintained regularly to minimize the noise emission and occurring vibration.

Push the button in the back of the tool (careful to prevent damage to the button), pull the trigger and release the trigger. If the LED stats blinking white the tool is in inspection mode, the tool speed will be 4800 rpm.

The speed can be changed between 4800 rpm and 2000 rpm. Push the button until 2 short beeps and 1 long beep, release the button and the speed is changed.

Warning LED Pattern.

Performance Inspection Mode, for example after maintenance / oil.

This mode can be used to test the tool's performance independent of the setting parameters, the tool will not shut-off.

Attach the battery.

Please use the TF pin 2 x 90 as supplied in the box of the tool.

Trouble	**Probable cause**	**Action**
The tool does not operate.	The motor is over-heated.	Wait until the motor cools down and the LED switches off
	The battery pack is over-discharged.	The battery voltage falls below a certain level and protective function is activated. Charge the battery pack. ※Be sure to charge the over-discharged battery pack to full level. If the charging level is not sufficient, the protective function may not be released. Replace the battery pack.
	The battery pack gives a low voltage output.	Low voltage error may occur when the battery pack, with degraded performance owing to the deterioration, low temperature etc., is used. Normally, the over-discharge protection inside the battery pack is activated, so the low voltage error will not occur
	The tool is in a setting mode.	PC-1 is connected and is in Setting mode, detach the battery pack and disconnect the PC-1.
	Following error is outputted:	Please send the tool for repair to an authorized service shop.

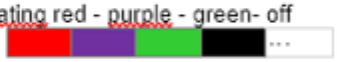
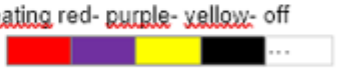
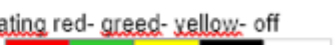
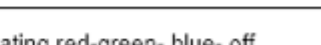
	· Commutation Error · Motor lock Error · Wire breakage error of motor temperature sensor · Wire breakage error of driver temperature sensor · Over-voltage Error · Over-current Error · Abnormal pulse signal · Memory Error	※ Extreme low environment temperature can show a wire breakage error or motor/driver temperature sensor error causing motor lock. Confirm the proper ambient temperature.
When releasing the throttle lever during no-load rotation, there is a stop sound from the motor.	It is the operating sound of the brake when stopping.	It is not a problem. Continue to use as it is.
Overheat alarm frequently occurs.	The load on the tool is big, number of cycles per minute is too high.	Use the tool at tightening application within the limits of the tool.
	The cooling fan is broken down.	Please send the tool for repair to an authorized service shop.
The number of cycles is small despite a fully charged battery pack.	It is the end of life of the battery.	Replace the battery.
LED on the battery charger is not indicating while charging the battery.	Dirt adheres to the terminals of the battery charger and the battery.	Clean the terminals after unplugging the power cord.
Stand-by lamp (orange) for the battery charger blinks	The temperature of the battery is too high or too low.	Charge the battery pack in a location at ambient temperature of 0 to 40℃. When the battery pack reaches a temperature suitable for charging, the charging is automatically started.
Error lamp (red) for the battery charger blinks	The battery breaks down or is at the end of its life	Replace the battery.

In the inspection mode parameter can’t be set, rundown history and pulse data will not be stored.

Buzzer Sound and LED lightning patterns.

To cancel the inspection mode take off the battery. After replacing the battery the tool is back in normal operation mode.

Condition	Buzzer sound pattern	LED lighting pattern
Tightening OK	Short beep	Lighting green & OFF until the following conditions are met: 10 seconds elapsed, next buzzer sound, operation of the throttle lever. 
Tightening NG (Value Over、Pulse Under)	Beep 6 times	Blinking red & purple repeats until the following conditions are met. 10 seconds elapsed, next buzzer sound, operation of the throttle lever. 
Tightening NG (Value Under, Pulse Over, Slow Error)	Beep 6 times	Lighting red & OFF until the following conditions are met: 10 seconds elapsed, next buzzer sound, operation of the throttle lever. 

	Condition	LED lighting pattern
Warning Alarm Replace the battery	Battery Charge level warning	Flashing blue ON and OFF 
	Motor over-heat alarm	Purple rapid flashing 
	Driver over-heat alarm	Rapid flashing of purple and white 
	Over-discharge of the battery	Rapid flashing of purple and yellow 
	Exchange offset alarm	Rapid flashing of purple and red 
Maintenance is required	Oil deterioration detection	Rapid flashing of red-yellow-purple 
Error (Repair is required)	Commutation Error	Red rapid flashing (After red rapid flashing, press the push button to see the error message as explained in the right column. While pressing the push button, the lighting pattern as stated in the right column will be displayed. 
	Wire breakage of motor temperature sensor	
	Wire breakage of driver temperature sensor	
	Over-voltage Error	
	Over-current Error	
	Motor lock Error	
	Abnormal pulse signal	
	Memory Error	
		Repeating red - purple - green- off 
		Repeating red – yellow- green- off 
		Repeating red – green- purple- off 
		Repeating red- purple- yellow- off 
		Repeating red- purple- red- off 
		Repeating red- greed- yellow- off 
		Repeating red-green- blue- off 
		Repeating red-white-blue-off 

ERROR Mode: Display by LED

LED lighting pattern at Error or alarm.

Condition	**LED Lightning/Blinking pattern**
Communication Error	2 times blinking
Motor lock error	5 times blinking
Wire breakage in motor temperature sensor	6 times blinking
Wire breakage in driver temperature sensor	7 times blinking
Over-voltage error	8 times blinking

Inspection / repair of the tool is necessary.
Please send the tool to our company or our certified service shop for repair.

Over-current error	9 times blinking	
Speed setting error	10 times blinking	The speed setting switch is set to the intermediate position of the adjacent setting. Please remove the battery pack and set the speet setting switch setting to the correct position.
Low voltage error *1	11 times blinking	Please replace the battery pack
Battery pack remaining amount alarm *2*3*	Continuous blinking	Please replace the battery pack
Overheat alarm *3	Lighting	Please wait until release (LED lamp lights off).

*1: Low voltage error may operate when using a battery pack whose performance has deteriorated due to deterioration, low temperature, etc. Normally, overdischarge protection in the battery pack operates first and the low voltage error will not operate.

*2 : Even if battery pack remaining amount alarm occurs, if you continue to use without replacing the battery pack, overdischarge protection in the battery pack is activated and the power supply is shut off.

*3 : Even if the tool stops due to overheating while the battery pack remaining amount alarm is generated, LED keeps high speed blinking and will not be lit.

< The tool does not operate until the overheat status is released.>

Tarkoituksenmukainen käyttö:

Älä koskaan käytä laitetta tarkoituksen ja käyttöohjeiden vastaisella tavalla.

Vahingot, jotka ovat aiheutuneet tämän käyttöohjeen noudattamatta jättämisestä, laitteen virheellisestä käyttötavasta tai virheellisestä korjauksesta eivät koskaan kuulu myöntämämme takuun piirin ja emme ole niistä myöskään vastuussa. Varaamme oikeuden teknisiin muutoksiin ja parannuksiin siitä erikseen ilmoittamatta.

Tämä laite on suunniteltu kierrekiinnikkeiden kiristämiseen. Omistajan/käyttäjän on suoritettava riskinhallinta-analyysi, jos laitetta on käytettävä muulla tavalla.

Motor Overheat

At maximum torque output on hard joint application (0.5 seconds impulsing) the models can make at least the number of cycles as per below:

YZ-T600: 10 cycles per minute

YZ-T800: 8 cycles per minute

YZ-T900: 6 cycles per minute

YZ-T950: 5 cycles per minute

The motor of the tool might overheat at intensive use. This overheat is depending on the tools adjustment (speed and relief valve) and the application, hard joint or soft joint.

Takuu

Takuuaika on ostopäivästä alkaen seuraava:

- 12 kuukautta Yokota, Toku ja Red Rooster työkalut;
- 3 kuukautta työkalujen varaosat jotka korjataan toimestamme.

Takuu kattaa valmistajan materiaali- tai valmistusvirheet, jotka ovat selkeästi todettavissa. Takuun piiriin kuuluvien osien tai laitteen vaihto tai korjaus suoritetaan virallisen Yokota/Red Rooster huoltoliikkeen toimesta veloituksetta. Ostajaa veloitetaan rahti- tai postikuluista. Vahingot, jotka johtuvat normaalista kulumisesta, ylikuormituksesta tai virheellisestä käytöstä eivät kuulu takuun piiriin. Katso lisätietoja aina tästä käyttöohjeesta! Takuuvaateiden seurauksena olevat laitteiden vaihdot eivät kuulu osana takuusopimukseen.

Myöskään vaateet tuotantoseisokista ja/tai muista vahingoista ovat rajattu tämän takuun ulkopuolelle. Takuunalaiset korjaukset voidaan ainoastaan tarkastelun kohteeksi, jos laite on sen alkuperäisessä kunnossaan ja sen mukana on ostokuitin kopio. Takuuvaateet on suoritettava laitteen toimittaman jälleenmyyjän välityksellä.

Yhdenmukaisuusvakuutus

CE Yhdenmukaisuusvakuutus

Merkki: Yokota

Tuote: Impulse Wrenches

Tyyppi: YZ-T800A

Kapasitanssi: 10 - 30

1A01759

WE, RAMI YOKOTA B.V. , että tämä tuote täyttää standardin ja standardin. Konedirektiivin 2006/42/ce ja standardin EN ISO 11148-6

tekninen tiedosto on saatavilla osoitteessa Rami Yokota BV:

RAMI YOKOTA BV

De Ruyterkade 120

1011 AB Amsterdam

THE NETHERLANDS

Päiväys: 09-05-2022 *Plaikka: Amsterdam*

Allekirjoitus:

N. Nauta

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