



G. TELEMETRICS

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1. INTRODUCTION

▶ HOW TO IDENTIFY SPECIFIC MACHINE MODEL



Specific machine model name is carved on the product nameplate.

▶ PRECAUTIONS FOR TBOX

TBOX is a telecommunication device installed inside of the machine.

- ⚠ Do not attempt to repair or alter the device yourself. Doing so will void your warranty and may damage the hardware.
- ⚠ Be sure that TBOX is operated on proper temperature and voltage described below. Otherwise it can cause unexpected abnormal operation.
 - Voltage: DC 6 ~ 18V
 - Temperature: -30 ~ 75°C
- ⚠ In case of re-plugging, make sure that the correct side of the cable should be plugged in the connectors.

► **MACHINE CLASSIFICATION TABLE**

Depending on the machine, displayed items or supported functions may differ.

Please check the model name and type of your machine on the classification table below.

TYPE	MACHINE MODEL
A	T115SPUS, T130SPUS
B	T574HC, 5520CH
C	T394
D	T554
E	T4058PU, T4058PCU
F	T25, 2515CH, 2610HC, T224NH, T254NH



Function name	Machine types with the function applied
Remote engine start / stop	A
Auto engine stop	A

Available machine status items by machine type

 <p>Battery voltage</p> <p>All</p>	 <p>Fuel level</p> <p>A,F</p>	 <p>Coolant temperature</p> <p>A,B,F</p>	 <p>Parking brake</p> <p>A,D,E,F</p>	 <p>Shuttle direction</p> <p>A,E,F</p>
 <p>PTO</p> <p>A,D,E,F</p>	 <p>Engine hours</p> <p>All</p>	 <p>Transmission oil temp.</p> <p>A</p>	 <p>Urea level</p> <p>A</p>	 <p>Air cleaner</p> <p>A</p>
 <p>4WD</p> <p>F</p>	 <p>Horizontal Mode</p> <p>F</p>	 <p>Depth Mode</p> <p>F</p>	 <p>Draft Mode</p> <p>F</p>	

► **REMOTE ENGINE ON/OFF CONDITIONS**

Remote engine ON/OFF function works only when all conditions below are satisfied.

Remote engine start conditions					
Parking brake on	Hood closed	Door closed	Not seated	Shuttle lever neutral	PTO off
A	A	A	A	A	A

► **OPERATION MODE CONDITIONS**

Remote engine OFF function works only after the engine is started remotely.

However it won't work if the machine is on operation mode.

If any of the following actions is detected, the machine will be on operation mode.

Operation mode conversion conditions			
Clutch control	Seated	Shuttle control	Brake control
A	A	A	-

► **AUTO ENGINE STOP CONDITIONS**

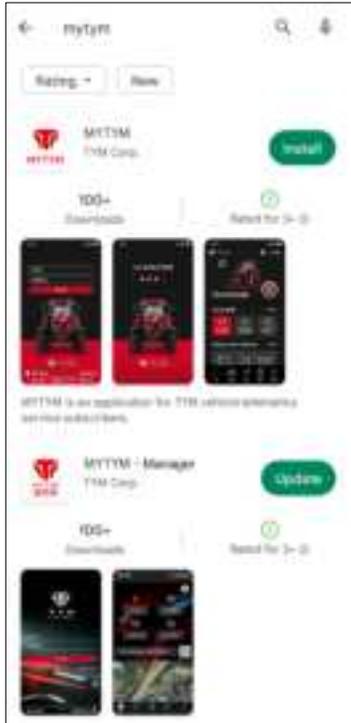
If any of the following actions is detected while the machine is not on operation mode, the engine will stop automatically.

Auto engine stop condition		
Parking brake off	PTO on	Hood open
A	A	A

⚠ Each condition may vary by the machine type, please check the table above.

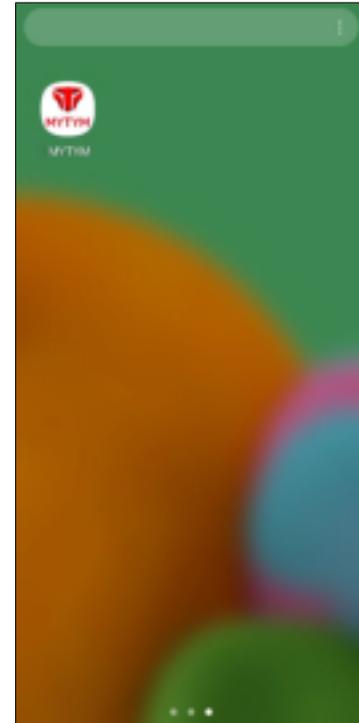
2. SIGN UP & LOGIN

▶ THE APP INSTALLATION



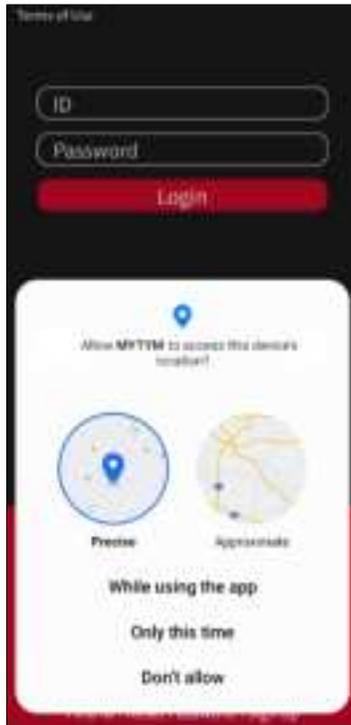
Use the keyword of 'MYTYM' to search the app 'MYTYM' on Google Play or App Store.

▶ LAUNCH THE APP



After installation, launch the app by tapping 'MYTYM' icon on the home screen or app drawer.

► LOCATION PERMISSION



To use various features of the app, permission for accessing the device's location is required.

► While using the app

Allow device location access while using the app. After initial setting, permission pop-up message won't show again.

► Only this time

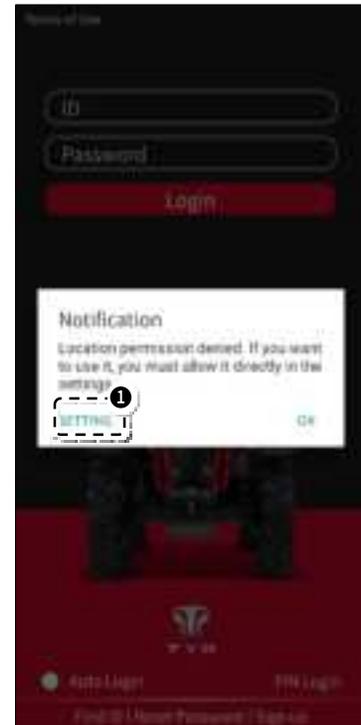
Allow device location access only this time.

A pop-up message will appear again on next app launch.

► Don't allow

Deny permission of access to the device's location. The application will shut down immediately.

► SET LOCATION PERMISSION



You can change the policy for allowance to access to the device's location by tapping the 'setting' ^① icon.

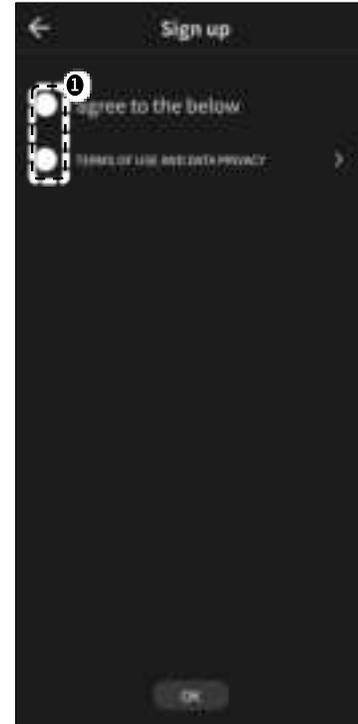


Tap the 'Permissions'^① to change the permission policy to access to device's location.

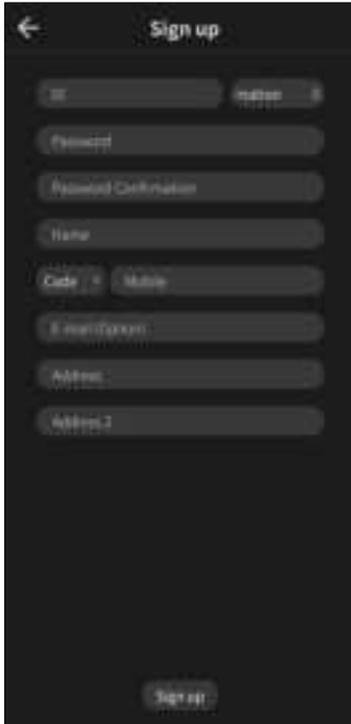
► SIGN UP



To use the app, 'Sign up' is required. Click on the 'Sign up'^① to proceed to registration.



Read and agree to the Terms and Conditions. Check the agreement box^① to proceed.



← Sign up

or [login](#)

First Name

Last Name

Address Confirmation

Name

Code Mobile

E-mail (optional)

Address

Address 2

Sign up

► ID

At least 5 characters with a combination of upper, lower case or numbers only.

► Password

It must be created with a combination of 8 or more letters (upper and lowercase letters), numbers, and special characters.

⚠ A password must include three types of uppercase, lowercase, and special characters.

► Required field

- **Name**
Fill with an alphabet.
- **Mobile**
Choose country code and fill with your current mobile number.
- **Address**
Fill with your resident address.

► Optional field

- **E-mail**
Fill with your current E-mail address.

► LOGIN



Terms of Use

ID

Password

Login



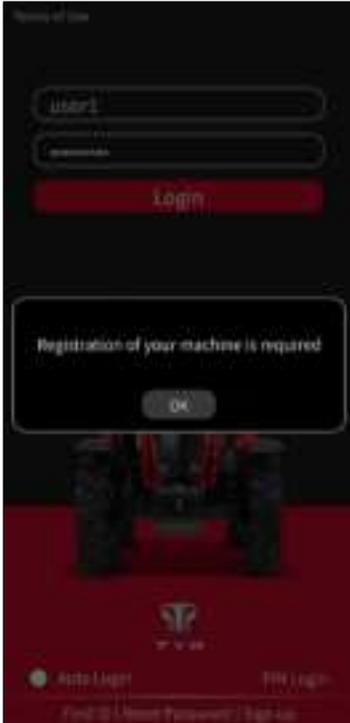
 Auto Login  PIN Login

First ID | Reset Password | Sign up

Log in with your ID and password.

⚠ For security purpose, please enable 'Auto Login'^① only on your mobile.

▶ REGISTER YOUR MACHINE



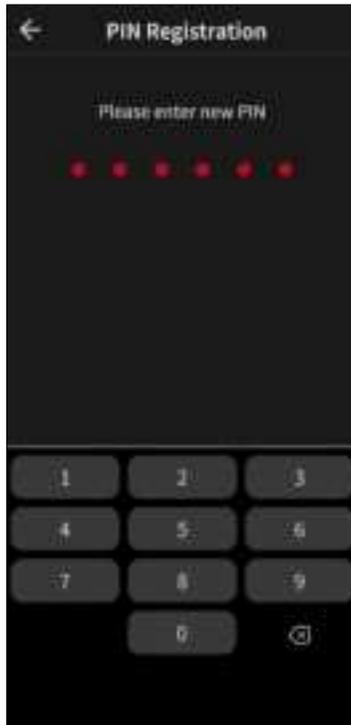
To use app, you should register your machine through an authorized dealer.

⚠ When the “Registration of your machine is required” message is shown, contact your dealer to register your machine.

▶ SET PIN CODE



After registration, you can set PIN code for quick login.



Input 6 digits of a PIN code twice.

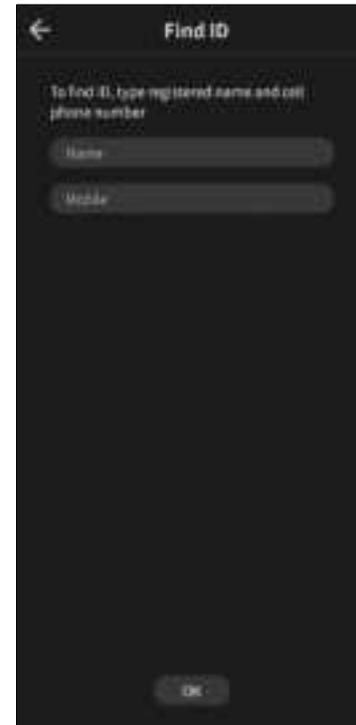
⚠ You should login with ID and password first. After setting PIN, you can log in with PIN code.

▶ LOGIN WITH PIN CODE



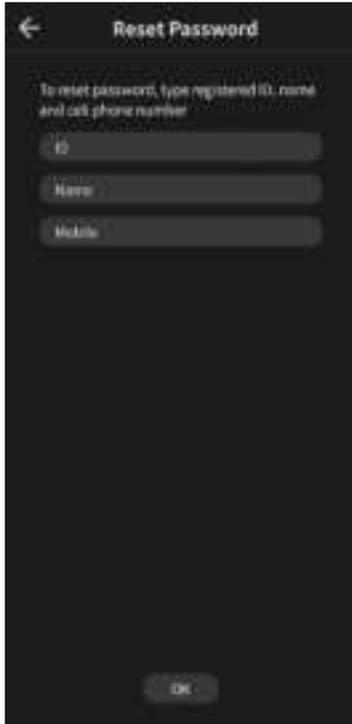
After setting PIN, you can log in with it.

▶ FIND ID

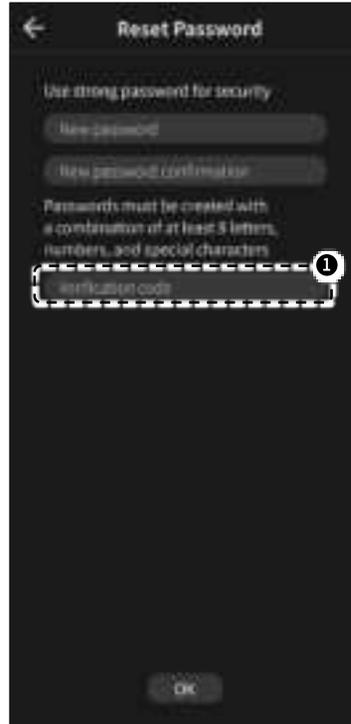


Input name and mobile correctly to find your ID.

▶ RESET PASSWORD



Input ID, name and mobile correctly to reset your password.

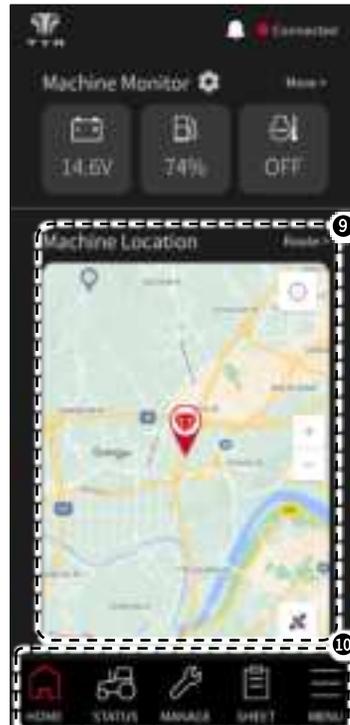


Input new password, confirmation and 'Verification code'^① sent to your mobile.

- ⚠ If you modify your mobile number, you can change it on the profile menu.
- ⚠ If you forgot your mobile number, please contact dealer to deal with.

3. HOME MENU

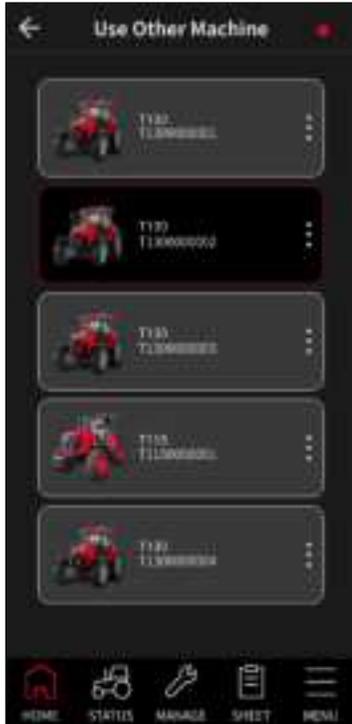
▶ HOME SCREEN



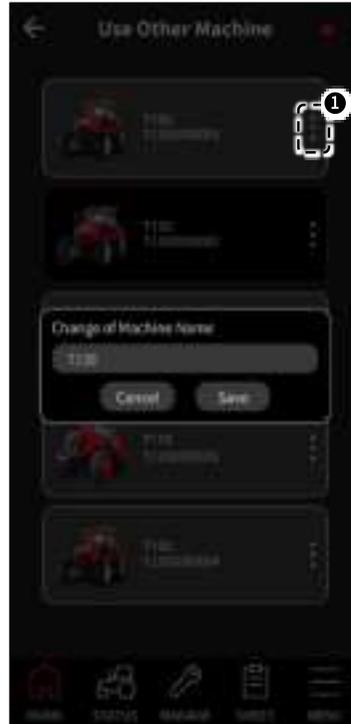
▶ Description

- ① Machine name
- ② Use other machine
- ③ Notification
- ④ Machine appearance
- ⑤ Connection status
- ⑥ Engine status
- ⑦ Machine monitor setting
- ⑧ Machine monitor
- ⑨ Machine location
- ⑩ Main menu

► **USE OTHER MACHINE**



You can select machine for mobile connection among registered machines.



Tap the 'more'^① icon to change the machine name.

► **NOTIFICATION**



Notifications are categorized by emergency, general, error, consumables replacement and notice.

► **Emergency notification**

- Rollover
- Geofence

► **General notification**

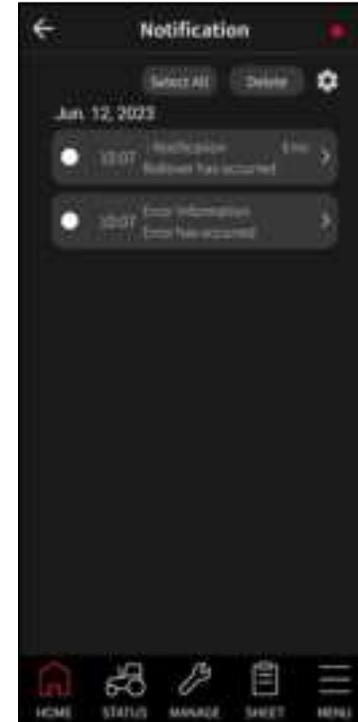
- **Battery low voltage :**
11.5 V or below
- **Telematics communication disconnection :**
120 hours after engine off or battery below 11.0 V. (Telematics communication will be continued automatically after KEY-ON state.)
- **Battery disconnection :**
battery cable disconnected or battery disconnection switch off.

⚠ While telematics communication or battery is disconnected, several functions such as remote start/stop and geofence won't work. Please connect the communication by manual KEY ON.

⚠ Standard values of low battery and telematics disconnection can be changed without notice for improvement.

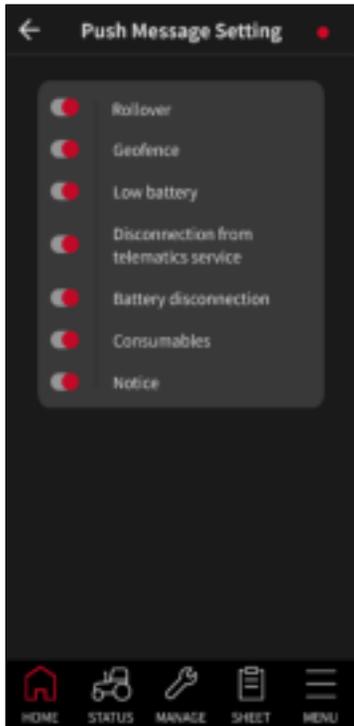
⚠ In push message setting, you can turn on/off push message notification.

► **NOTIFICATION (DETAIL)**



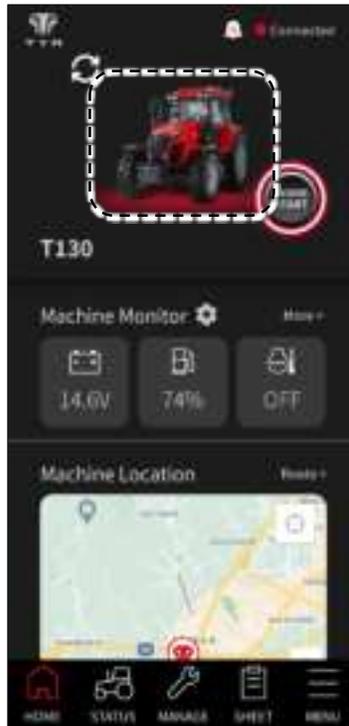
Tap a notification item to see details.

► **PUSH MESSAGE SETTING**



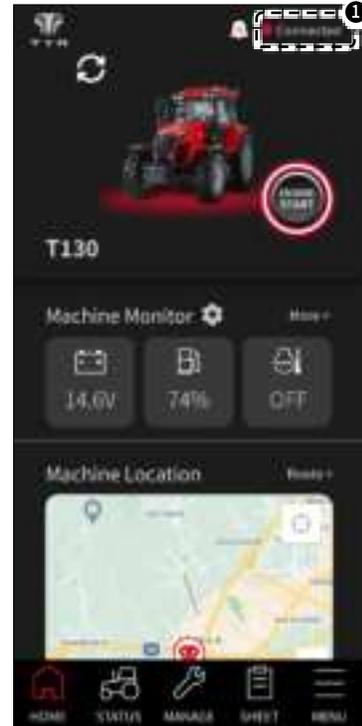
You can receive push message notification by turning on/off categories. You can receive push messages even if the app is closed.

► **MACHINE APPEARANCE**



Connected machine's appearance will be shown in home menu.

► **STATUS OF CONNECTION**



You can check machine connection status through 'connection status' icon ①.

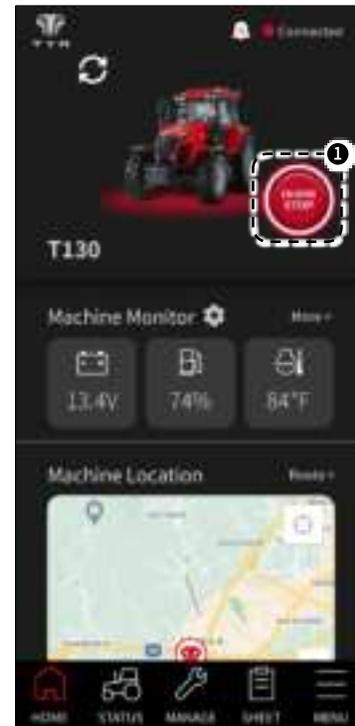
- **Connected**
When the machine is connected to the mobile, red-colored 'Connected' icon will be displayed.
- **Disconnected**
When the machine is not connected to the mobile, gray-colored 'Disconnected' icon will be displayed.
- Before using the app, please confirm the red-colored 'Connected' icon.

▶ REMOTE ENGINE START



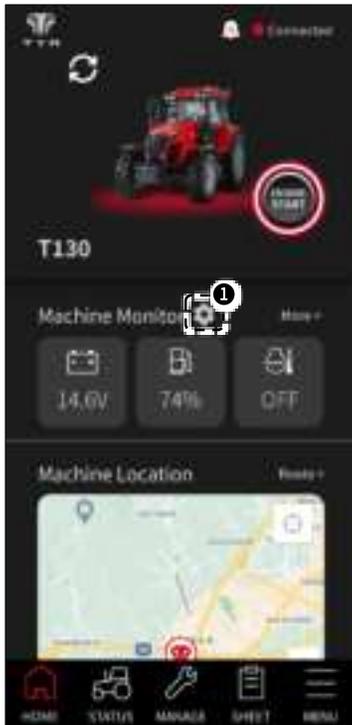
While the engine is off, 'Engine Button'^① is displayed in black with the text 'ENGINE START'. Remote engine start can be executed with PIN code.

▶ REMOTE ENGINE STOP



While the engine is on, 'Engine Button'^① is displayed in red with the text 'ENGINE STOP'.

► **MACHINE MONITOR**



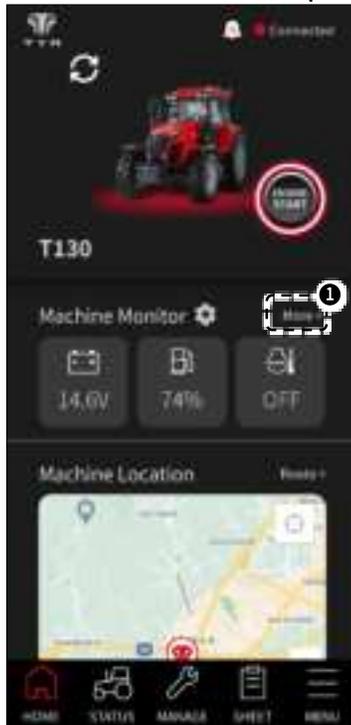
Machine status icons displayed up to 3 items. Tap 'setting'^① icon to choose which items to display.

► **MACHINE MONITOR (SETTING)**



Select up to 3 items to display on the home screen.

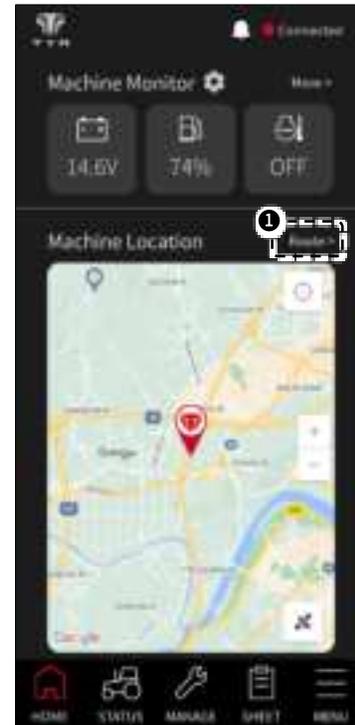
► MACHINE MONITOR (MORE)



Tap 'More'^① icon to view all of machine status.

⚠ Displayed machine status items may vary depending on machine model.

► MACHINE LOCATION



Machine's current location shows up on the map.



Check the 'Status of machine' chapter for more details.



⚠ In case that Google Maps is not installed on your mobile, the app will open Google Play or App Store to download Google Maps application.

Tap 'Route'^① icon to find a route from your position to the machine.

4. STATUS OF MACHINE

► MACHINE STATUS



Displayed machine status items may vary depending on machine model.

Following machine status items are displayed.

- ① Battery voltage
- ② Fuel level
- ③ Coolant temperature
- ④ Parking brake
- ⑤ Shuttle direction
- ⑥ PTO
- ⑦ Air cleaner
- ⑧ Transmission oil temperature
- ⑨ Urea level
- ⑩ Engine hours

⚠ **Items updated real-time:**
Parking brake, shuttle direction, PTO, air cleaner

⚠ **Items updated every 1 minute:**
Battery, fuel level, coolant temperature, transmission oil temperature, urea level

⚠ **Items updated every 1 hour:**
Engine hours

► BATTERY



Battery icon shows the current voltage of the battery

- Red: 11.5V or less

When battery icon becomes red, charge the battery.

► **FUEL LEVEL**



Fuel level icon shows the current fuel level.

- Red icon: 15% or less

When fuel level icon becomes red, fill the fuel tank.

► **COOLANT TEMPERATURE**



Coolant temperature icon shows the current temperature of coolant. When the engine is off, OFF is shown instead of numbers.

- Red icon: Coolant is overheated.

When coolant temperature icon becomes red, It means the coolant is overheated. Check followings.

- ① Coolant level insufficient
- ② Radiator fin clogged
- ③ Fan belt tension

► **PARKING BRAKE**



Parking brake icon shows the current status of the parking brake.

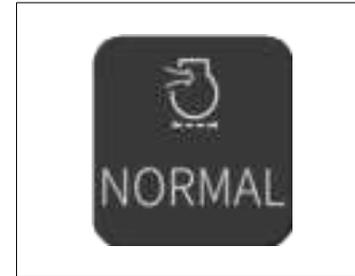
▶ SHUTTLE DIRECTION

Shuttle Direction icon shows the current direction of the shuttle lever.

F – Forward, N – Neutral, R – Reverse

▶ PTO

PTO icon shows the current status of the PTO shaft.

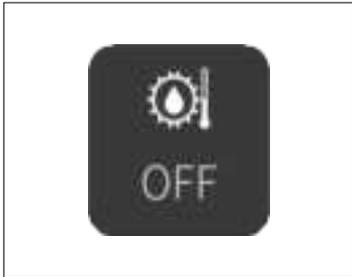
▶ AIR CLEANER

Air cleaner icon shows the current air cleaner condition.

- Red icon: Air cleaner is clogged.

When air cleaner icon becomes red, clean the air cleaner.

► **TRANSMISSION OIL TEMP**



Transmission oil temperature icon shows the current temperature of the transmission oil. When the engine is off, OFF is shown instead of numbers.

- Red icon: 32°F or less

⚠ In cold weather, engine pre-heating (idling) is required.

► **UREA LEVEL**



Urea level icon shows the current urea level.

- Red icon: 25% or less

When urea level icon becomes red, fill the urea quickly.

⚠ Engine power will be reduced when urea level is under 10%.

► **ENGINE HOURS**

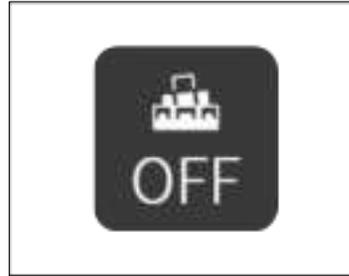


Engine hours icon shows the total time of usage.

▶ 4WD

4WD icon shows the current mode of the vehicle. If 4WD icon is “ON”, the vehicle will operate in 4-Wheel Drive mode. When the engine is off, “OFF” is shown.

- Red icon: 4WD “ON” status

▶ HORIZONTAL MODE

Horizontal mode icon shows the current mode of the vehicle. If Horizontal mode icon is “ON”, the vehicle will operate in Horizontal mode. When the engine is off, “OFF” is shown.

- Red icon: Horizontal mode “ON” status

▶ DEPTH MODE

Depth mode icon shows the current mode of the vehicle. If Depth mode icon is “ON”, the vehicle will operate in Depth mode. When the engine is off, “OFF” is shown.

- Red icon: Depth mode “ON” status

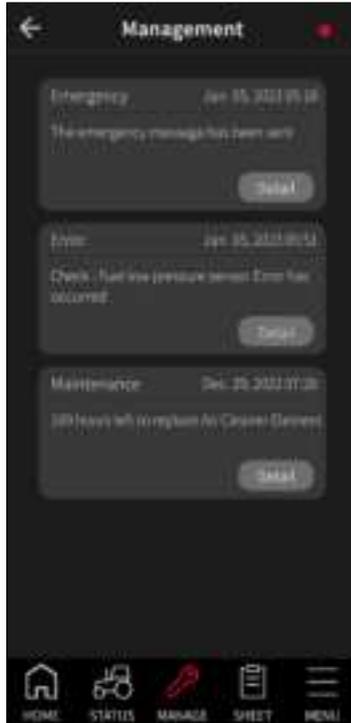
► DRAFT MODE

Draft mode icon shows the current mode of the vehicle. If Draft mode icon is “ON”, the vehicle will operate in Draft mode. When the engine is off, “OFF” is shown.

- Red icon: Draft mode “ON” status

5. MACHINE MANAGEMENT

▶ MANAGEMENT



In the management menu, you can see emergency notifications, check error-handling situations and manage consumables.

▶ Emergency notification

• Rollover

When the machine rolls over, a notification will be delivered.

• Geofence

When the machine leaves geofence, A notification will be delivered.

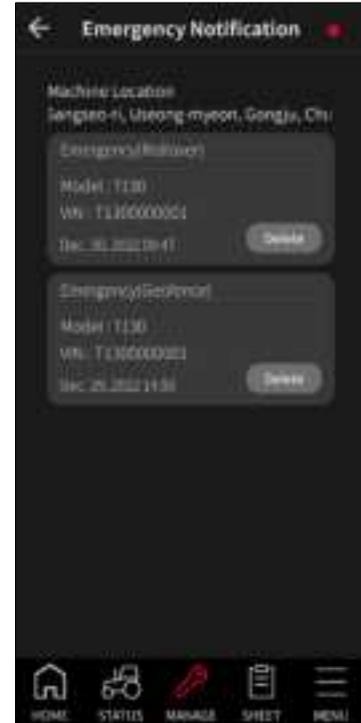
▶ Error

- When error occurs, a notification will be delivered.

▶ Maintenance

- Consumable lifespans are sorted into 3 levels : Change / Check / Good.

▶ EMERGENCY NOTIFICATION



You can see a history of emergency events such as rollover and geofence.

⚠ When emergency events occurs, push message will be delivered.

► **ERROR**

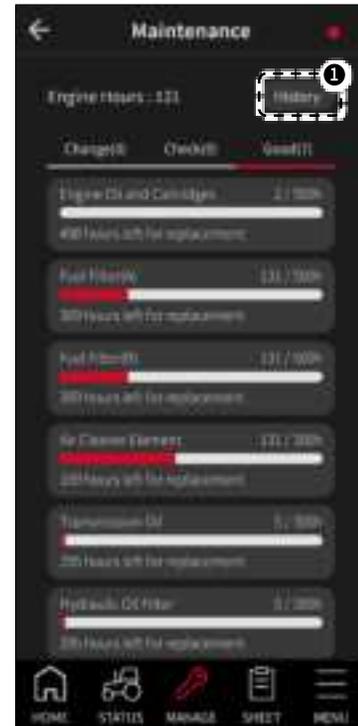


You can see a list of occurred errors and the progress of troubleshooting in Error details.

► **Error-handling procedure**

- ① Occurred
- ② Accepted
- ③ Repairing
- ④ Resolved

► **CONSUMABLES**



Lifespans of consumables are indicated in 3 levels : Change, Check and Good.

⚠ When consumables need replacement, push message will be delivered.

► REPLACEMENT HISTORY



Tap 'History'^① icon on the maintenance menu to show the replacement history of consumables.

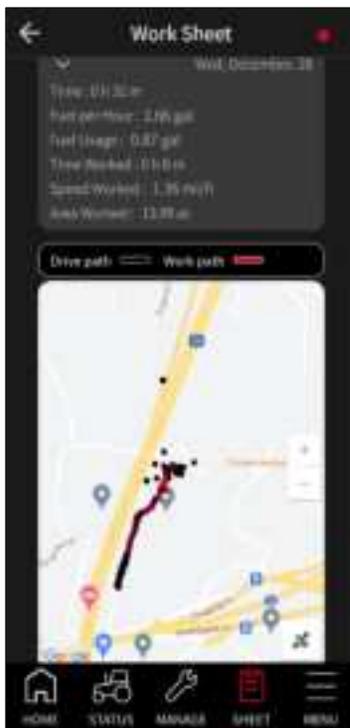
6. WORK SHEET

▶ WORK SHEET



When the machine starts, it shows 'Drive' in gray. Under work conditions, it turns to 'Work' in red.

⚠ Some models may not support all of these features.



Click a date to view the drive and work path of the machine for that day.

- Black dot: Drive path
- Red dot: Work path

▶ Time

Total usage time of the machine on selected day.

▶ Fuel per hour

Fuel mileage on selected day.

▶ Fuel usage

Total fuel usage on selected day.

▶ Time worked

Total working time on selected day. (PTO + Tow)

▶ Speed worked

Average working speed on selected day.

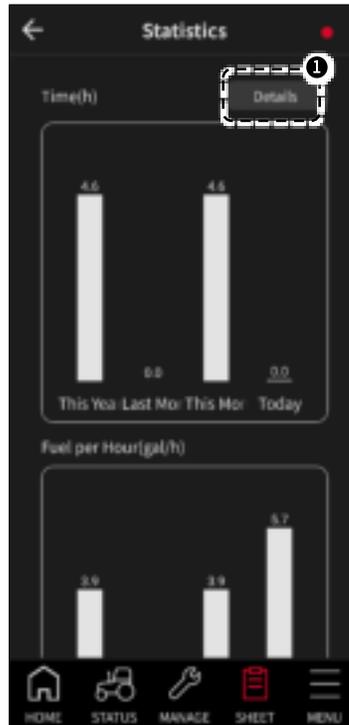
▶ Area worked

Total movement × Implement width on selected day.

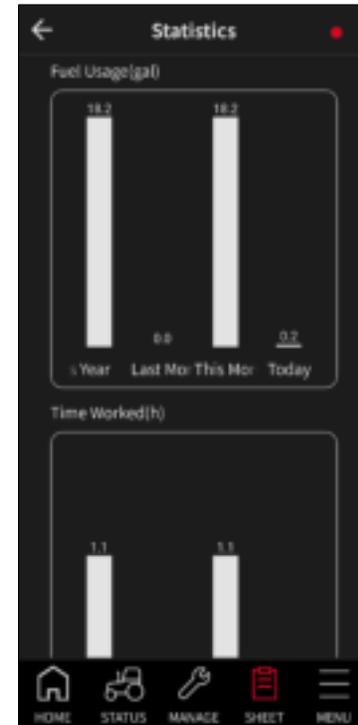
- ⚠ Work data is calculated only in certain conditions. (ex. Engine load, PTO)
- ⚠ When the implement width is unset or zero, area worked won't be calculated.
- ⚠ Drive and work path are displayed as dots every 1 minute, not a linear form.
- ⚠ Data may not be accurate depending on the GPS conditions.

► **STATISTICAL CHART OF USAGE**

Tap 'Statistics'^① icon on the work sheet menu to view a statistical chart of usage sorted by this year, last month, this month, or today.



- ① Time of usage
- ② Average fuel mileage



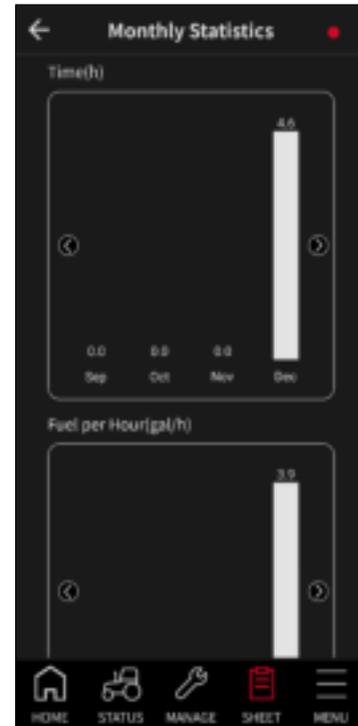
- ③ Fuel consumption
- ④ Working hour

► **MONTHLY STATISTICS**

Tap 'Details'^① icon on a statistics menu to view a monthly statistical chart of usage.



- ⑤ Average working speed
- ⑥ Working area



- ① Time of usage (monthly)
- ② Average fuel mileage (monthly)



- ③ Fuel consumption (monthly)
- ④ Working hour (monthly)



- ⑤ Average working speed (monthly)
- ⑥ Working area (monthly)

7. MENU (MORE)

▶ MENU (MORE)



Menu (more) contains following items.

- ① User profile
- ② Login setting
- ③ Notice
- ④ Implement setting
- ⑤ Geofence
- ⑥ Emergency contact
- ⑦ Automatic engine off
- ⑧ Customer service
- ⑨ Application information
- ⑩ System setting
- ⑪ Logout

▶ USER PROFILE



In Profile menu, you can see profile, machine and service information. Also, you can edit personal information such as mobile number, E-mail and address.

Telematics service is provided free of charge for 5 years from machine purchases. To continue using the service, a telematics service renewal is required with a monthly subscription fee.

⚠ Current machine location, route to machine, work sheet and other services can be provided only upon agreement of Terms of Use and Location services.

⚠ If you disagree to device's location service, the application will automatically shut down.

▶ **DELETE ACCOUNT**



Tap 'Delete'^① to remove all user information from the telematics service.

⚠ Once the account is deleted, all user information cannot be recovered.

⚠ Deleted ID cannot be reused or created.

▶ **LOGIN SETTING**



▶ **Change Password**

You can change the current password.

▶ **Reset PIN**

You can reset the PIN code. The identification process is required.

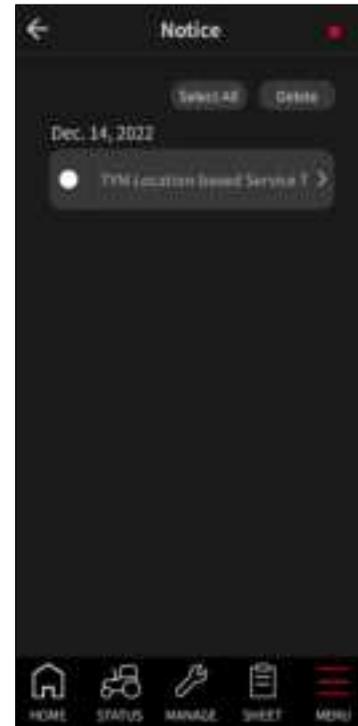
▶ **Change PIN**

You can change the current PIN code.

▶ **Auto Login**

The login process will be skipped when Auto Login is activated.

▶ **NOTICE**



You can check the notices from dealer or customer service in Notice menu.

► NOTICE (DETAIL)



Tap an item of the notice list to see more details.

► IMPLEMENT SETTING



You can register, edit and delete implement details such as name and width.

- ⚠ The numeric value of the implement width will affect the accuracy of the work sheet.
- ⚠ When the implement width is 0 or not set, working area will not be calculated.

► **GEOFENCE**



You can set geofence to get notification in case the machine leaves a specific area. Tap Deactivate^① icon to disable notification.

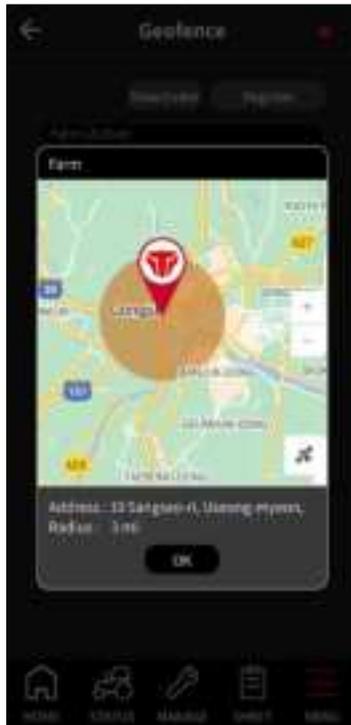
► **REGISTER GEOFENCE**



Set a radius of geofence from the current position.

- ⚠ You can set several geofences, but only one geofence can be activated.
- ⚠ Do not set geofence too narrow. Notifications can be delivered excessively.
- ⚠ Geofence notification will not be delivered unless geofence is registered or activated.

► IDENTIFY GEOFENCE



Select an item from the geofence list to view details and location on the map.

► EMERGENCY CONTACT



During emergency events(rollover, geofence), emergency messages will be sent to registered contacts, dealer and customer service.

⚠ You can register up to 3 emergency contacts for each model.

► REGISTER EMERGENCY CONTACT



Tap 'Register'^① icon to register emergency contact on each machine.

▶ AUTOMATIC ENGINE OFF

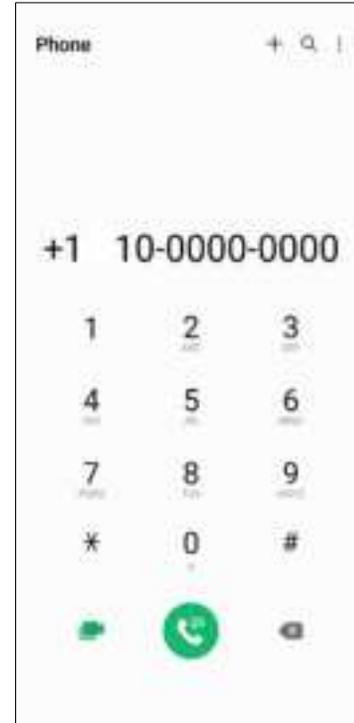


If the machine is not in operation mode within the specified time, the remote start will automatically shut down for safety reasons.

▶ (This function will be applied to next remote engine start.)

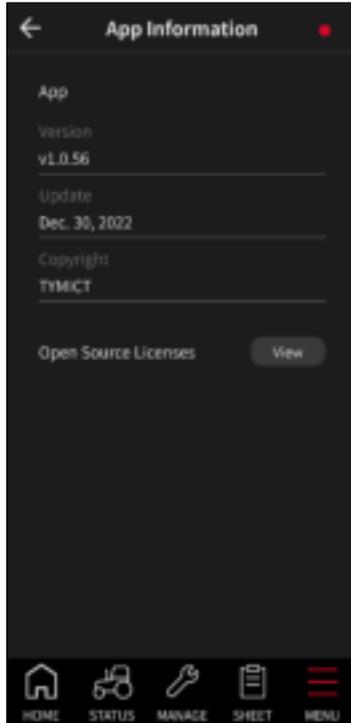
⚠ Refer to the remote start page for details regarding the work mode.

▶ CUSTOMER SERVICE



Tap a customer service icon to make a call to your dealer or service shop.

► APPLICATION INFORMATION



You can check detailed app information and open-source licenses in App Information menu.

► How to update the app

- ① When application update is available, notification will be delivered.

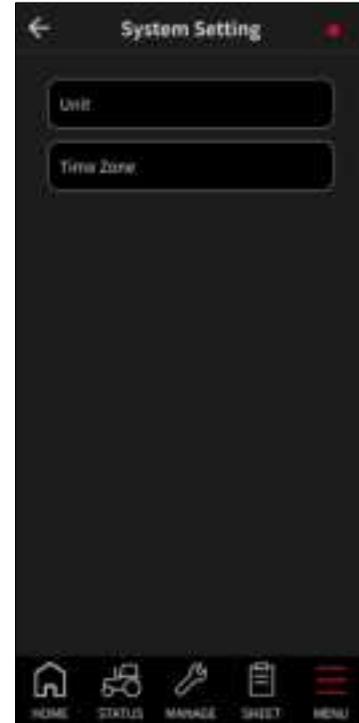
⚠ For improved stability and access to new features, please use the latest version of the app.

► How to update TBOX

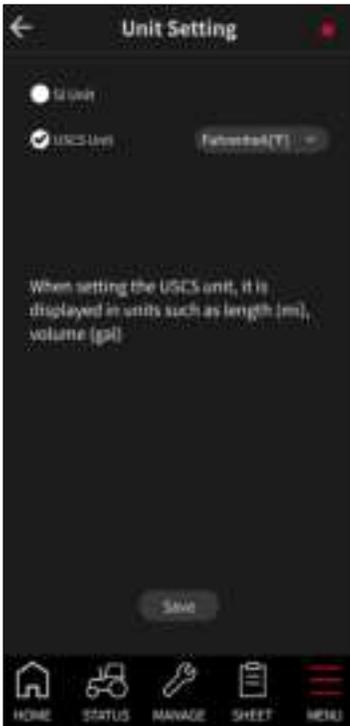
- ① When TBOX boots up, it automatically checks and updates to the latest version.

⚠ Application UI (User Interface) can be changed by application updates.

► SYSTEM SETTING



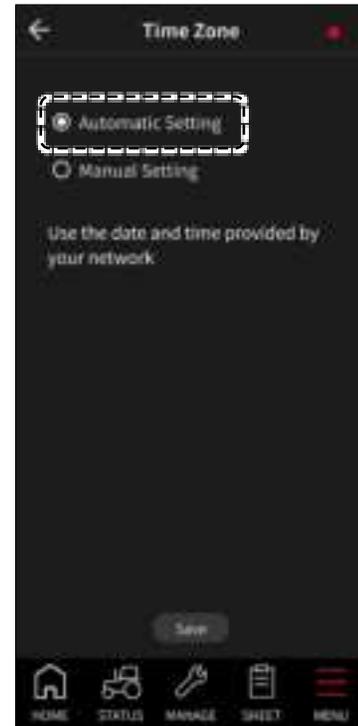
In System Setting, You can change default Unit and Time Zone.



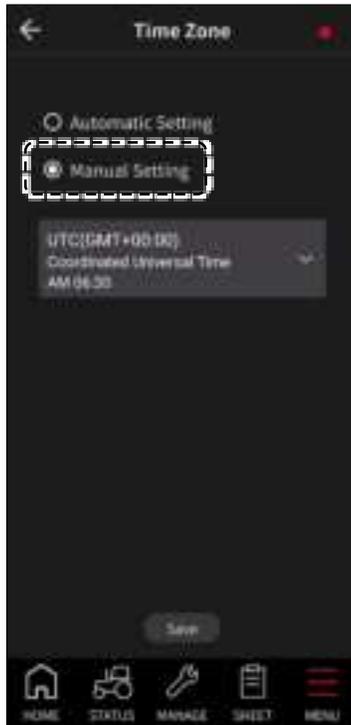
Select between SI and USCS Unit to change default unit of the app. You can select displayed temperature unit regardless of unit setting.

► **Items affected by unit change:**

- STATUS(Coolant Temp., T/M Oil Temp.)
- Work Sheet(Fuel per Hour, Fuel Usage, Speed Worked, Area Worked)
- Implement Width
- Geofence Radius



Automatic Setting uses the time zone provided by network.

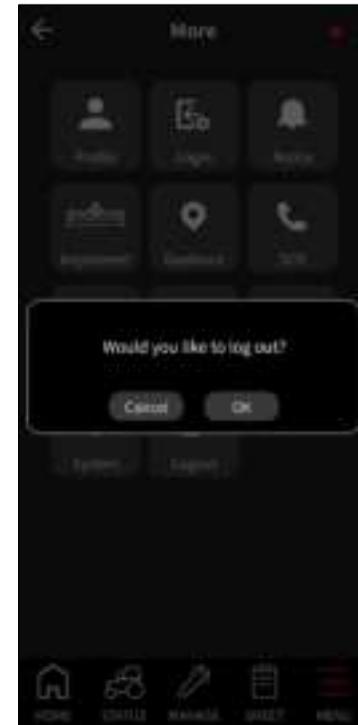


You can directly set the specific time zone by your preference.

► **Items updated according to time zone change:**

- Notification Time
- Work Sheet Data & Statistics

► **LOGOUT**



Tap OK button to log out and move to the login screen.



7. FCC INSTRUCTIONS

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Radiation Exposure Statement (Part 2.1091)

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

8. STATEMENTS

IndustryCanada Statement

This device complies with RSS-Gen Issue 5, RSS-132 Issue 4, RSS-133 Issue 7, RSS-130 Issue 2, RSS-139 Issue 4, RSS-140 Issue 1 of the Industry Canada Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Industry Canada Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

9. APPENDIX

► SPECIFICATIONS

ITEM	SPEC
Modem Spec.	<ul style="list-style-type: none"> • LTE Cat. 4 module optimized for M2M and IoT applications • MIMO Technology • Multi-constellation GNSS Receiver • Worldwide LTE Coverage • LTE-FDD: B2/B4/B5/B12/B13/B14/B66/B71^{※1} • GPS, GLONASS, BeiDou/Compass, Galileo and QZSS
※1Modem Frequency Range	<ul style="list-style-type: none"> • LTE BAND 2: 1850.7MHz ~ 1909.3MHz • LTE BAND 4: 1710.7MHz ~ 1754.3MHz • LTE BAND 5: 824.7MHz ~ 848.3MHz • LTE BAND 12: 699.7MHz ~ 715.3MHz • LTE BAND 13: 779.5MHz ~ 784.5MHz • LTE BAND 14: 790.5MHz ~ 800.5MHz • LTE BAND 66: 1710.7MHz ~ 1779.3MHz • LTE BAND 71: 665.5MHz ~ 695.5MHz