

QUICK START GUIDE

Telescopic Handler

STH742 | STH936 | STH1133 | STH1440 | STH1840



GENERAL GUIDANCE

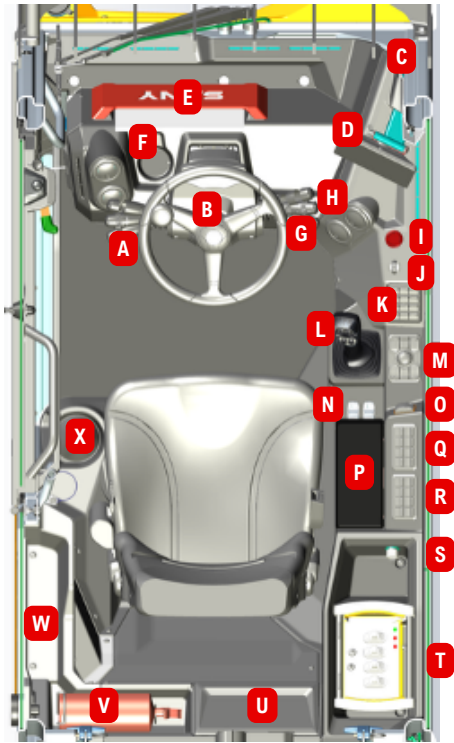
This quick start guide and its contents have been prepared by SANY and, while deemed to be accurate, are based on technical information provided for equipment designed, manufactured, and tested by SANY. This guide does not replace the operator manual or any formal training.

It is the responsibility of the owner, user, properly trained operator, and lessor to be knowledgeable of, and comply with, all industry standards, government regulations, workplace rules, and other directives that may govern and/or apply to this equipment as well as its environment/conditions of use.

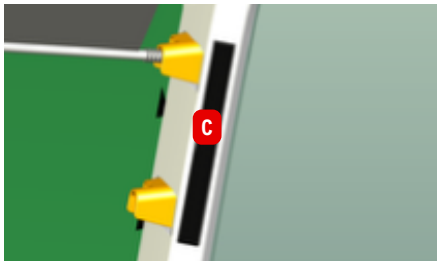
CONTENTS

3. Cabin layout
4. Keypads and encoder
5. Joystick
6. Joystick functions
7. Display: home page
8. Display: screen icons
9. Radio and bluetooth screens
10. DPF regeneration pages
11. Engine start up process
12. Engine shutdown process
13. Auxiliary pressure venting
14. Carriage and attachments
15. Tie down points
16. Lifting instructions
17. Fluid and lubricants
18. Dimensions
19. Maintenance safety
20. Daily checks
21. Weekly checks
22. Engine bay
23. Rear chassis

CABIN LAYOUT



- A. LHS Stork, transmission control
- B. Adjustable steering column & display
- C. LMI display
- D. Touch screen display
- E. Front dash document storage
- F. Dash cup/bottle holder
- G. RHS Stork wiper, lights, indicators
- H. Directional air vents x 6
- I. Emergency stop button
- J. Ignition key
- K. Primary Keys 4x3 panels
- L. Proportional joystick
- M. Rotary encoder panel
- N. Left/right stabiliser control
- O. Frame tilt rocker switch
- P. Opening armrest with USB charger
- Q. Keys 2x4 front panel
- R. Keys 2x4 back panel
- S. 12V Socket
- T. Man-platform controller storage
- U. Storage with lid
- V. Fire extinguisher, if fitted
- W. Bottle holder 1 lay down
- X. Bottle holder 2 upright
- Y. Emergency exit glass hammer
- Z. Roof liner with twin LED lights



KEYPADS & ENCODER



- A. Hazard warning light
- B. Rear fog light
- C. Spare
- D. Cabin beacon light
- E. Cab work lights front and rear
- F. Boom work light
- G. Roof wiper and washer
- H. Rear wiper and washer
- I. Rear window heating
- J. Roof liner light & brightness adjustment
- K. HVAC air recalculation
- L. Steer mode control

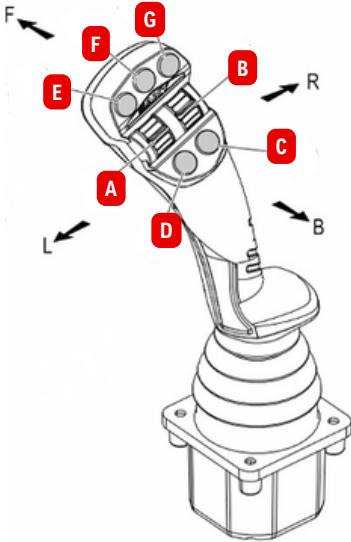


- A. Fan speed control
- B. Air conditioning
- C. Audio/Radio
- D. Back function/hang up
- E. Information, access to load charts etc
- F. Main screen/Answer button
- G. Rotary encoder and single press select, volume control only when media playing

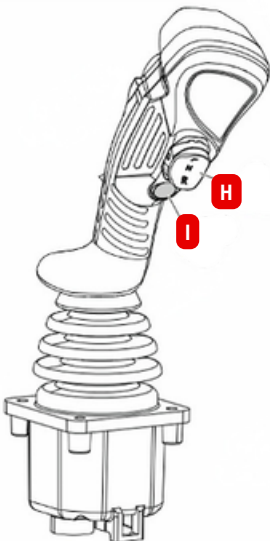


- A. Parking brake
- B. Full joystick isolation
- C. Tilt locking
- D. Auxiliary pressure release, press and hold
- E. Auxiliary isolation lock
- F. Outrigger locked
- G. Secure bypass, read manual first!
- H. ECO engine mode

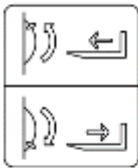
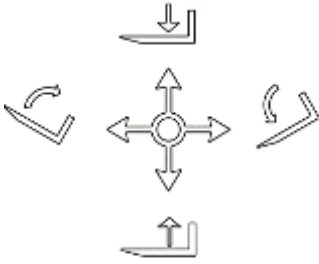
JOYSTICK



- A. Move the left joystick roller up to extend and down to retract the boom.
- B. The right joystick roller is used to operate the auxiliary hydraulic system.
- C. No Function, no button on construction model
- D. No Function, no button on construction model
- E. No Function
- f. Switching between gear 1 and 2
- G. No Function
- H. F-N-R
- I. Horn



JOYSTICK FUNCTIONS



E



The joystick is used to control the movement of the fork attachment & boom.

(F) forward to lower the boom

(B) Backwards to lift the boom

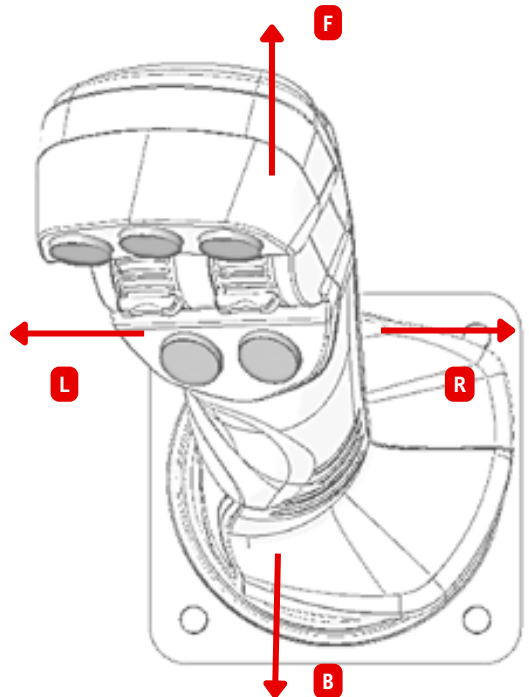
(L) Left to crowds the carriage back

(R) Right carriage load tilts forward

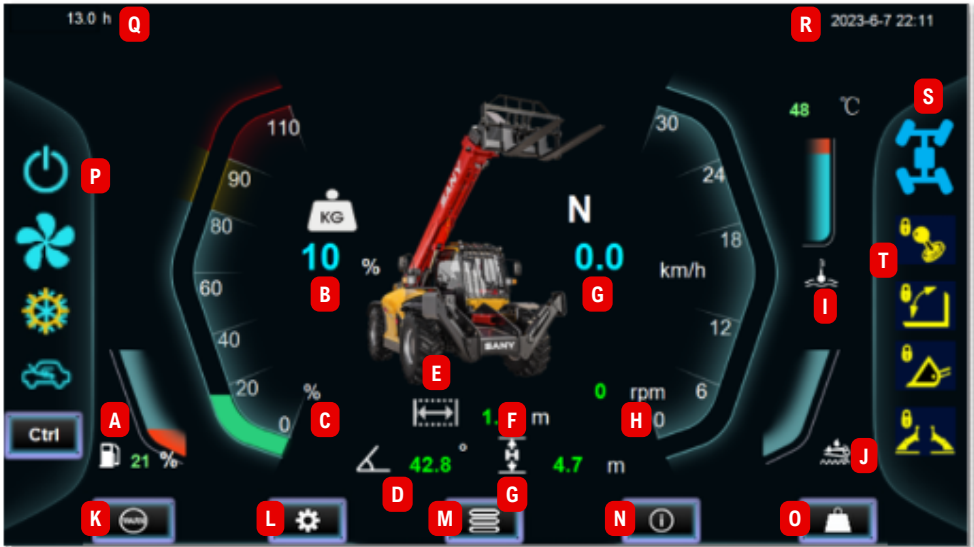
(E) Extends and retracts the boom

(F) Chassis levelling, tilt chassis left & Right

(G) Left & Right stabilisers, press down to lower, pull up to raise stabilisers.



DISPLAY



- | | |
|---|------------------------------|
| A. Fuel level gauge | K. Active error screen icon |
| B. Load percentage | L. Settings menu screen icon |
| C. Load percentage gauge | M. Menu screen icon |
| D. Boom angle | N. Information screen icon |
| E. Boom length | O. Load control screen icon |
| F. Load height | P. HVAC controls |
| G. Speedometer & gear | Q. Machine hours |
| H. Engine tachometer | R. Time & date |
| I. Engine coolant temperature gauge | S. Steering mode |
| J. Diesel exhaust fluid (DEF) level gauge | T. Active interlocks |

DISPLAY



Ctrl **Heater control:** Touch or navigate with encoder to select.

Active Error Codes: Description & error code number will display here. Contact dealer if error persists.



Settings: Dealer parameter access, time, language & unit settings.

Menu: Radio & Bluetooth control, A/C shortcut & EAT control for DPF regeneration.



Information: Use to find machine information & load charts.

Load Control: Overview of boom angles, length & height while displaying the load capacity used.

DPF REGENERATION



Regen Demand Lamp. At this point press the "forced regeneration button", so long as the coolant temp is above 75°C the engine will run at maximum speed for approximately 40 minutes, burning the soot particles in the filter.

Regen Force button is pressed for active regeneration process.

Regeneration prohibition; pressed for emergency stop or pressing 'Regen Force' again.

The "EOL TEST" is used for troubleshooting to highlight wiring or sensor issues.



As follows: start the engine - press the forced regeneration button then press the EOL test button.

The engine will run at maximum speed for 15 minutes for inspection. Any fault information will be fed back on the display screen, and the fault point will be confirmed through the fault information.




"EOL TEST" can also be used after any of the sensors have been replaced as a check procedure.

RADIO & BLUETOOTH



Radio: To tune channels, use the < > icons, press the save  icon to store up to 8 saved channels. Press play  to listen to channels. When playing the rotary encoder will also double up a volume dial.



Bluetooth: Press connect to pair a device, machine name will be displayed on screen to search. Once connected the Bluetooth icon will change blue . Calls can be answered while connected and will appear on screen and can be picked up touching the screen or phone buttons by rotary encoder.  

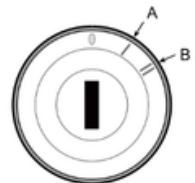
START THE MACHINE

WARNING. Before starting the machine, strictly comply with the following requirements, always refer to the operator's manual.

- Operator can only start or operate the machine while sitting on the seat;
- Operator must be familiar with all warning devices, instruments & operation control devices.
- All control devices should be placed in neutral/parking position before starting;
- Before starting the machine, make sure no one is on or under the machine or in the surrounding area, and blow the horn for warning;

Engine Start Up:

1. Turn the battery isolator to the ON position clockwise.
2. When in the operator seat, adjust seat and buckle the seat belt.
3. Make sure the park brake (1) is engaged and the transmission control lever (2) is in the neutral position.
4. Turn the key switch to the ON position A and check the gauges on the monitor and icon display. Check that all the gauge readings are normal and no-fault codes are present. If any faults or alarms are present, contact a SANY dealer for further information.
5. Make sure the park brake is engaged and check that the park brake indicator is red on the icon display.
6. Sound the horn to warn personnel that the machine is being started.
7. Turn the key switch clockwise and keep it in the starting position B. After the machine is started, release the key and the key switch will return to position A.



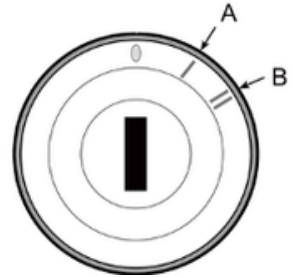
ENGINE SHUTDOWN

WARNING. Risk of damage!

- Stopping the engine before it cools can accelerate engine component wear. Never abruptly shut down the engine, except in an emergency.
- Never stop the engine suddenly when it is overheated. Run the engine at low idle to allow the engine to cool down gradually before shutting it off.
- Failure to follow this notice could damage the machine or cause it to operate improperly.

Engine Shutdown:

1. Park the machine on a firm, level surface.
2. Lower the fork attachment and boom to the ground.
3. Press the park brake switch (1) to engage the park brake.
4. Run the engine at low idle for 5 minutes to allow the engine to cool down. Extend cool-down time in hot weather.
5. Turn the key switch (0) to the off position and remove the key.



Inspection after engine shutdown:

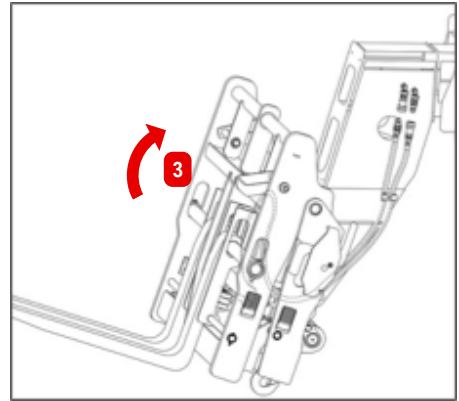
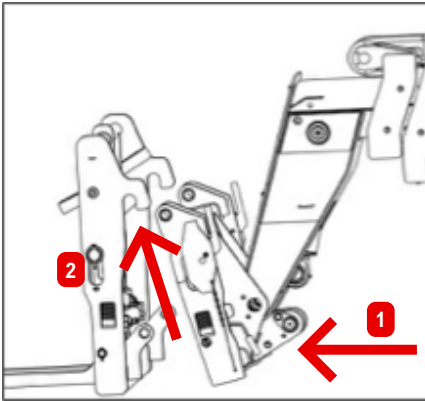
1. After shutting down the engine, conduct a walk-around inspection. Check the fork attachment, the exterior of the machine, and underneath the machine.
2. Check for fluid leaks.
3. Fill the fuel tank with diesel fuel.
4. To prevent fires, clean the engine compartment of combustibile debris.
5. Make sure the fork attachment, tyres, and underneath the machine are clean.



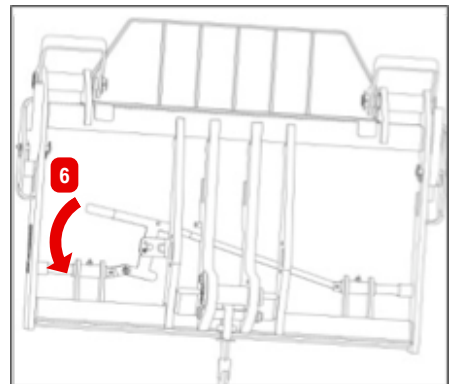
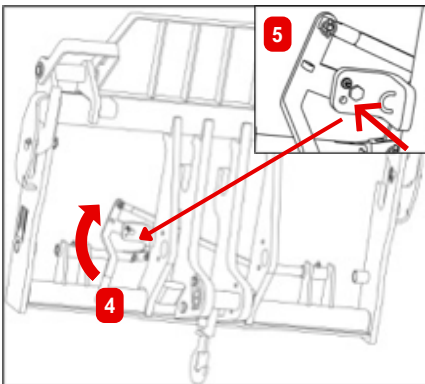
CARRIAGE

Fitment of attachment to carriage

1. Align the carriage to the attachment, rotate the carriage forward to allow top bars under the attachment.
2. Stop 1 meter from the attachment and extend the boom to the attachment.
3. Once aligned lift the carriage and rotate the carriage back to align the locking bars.



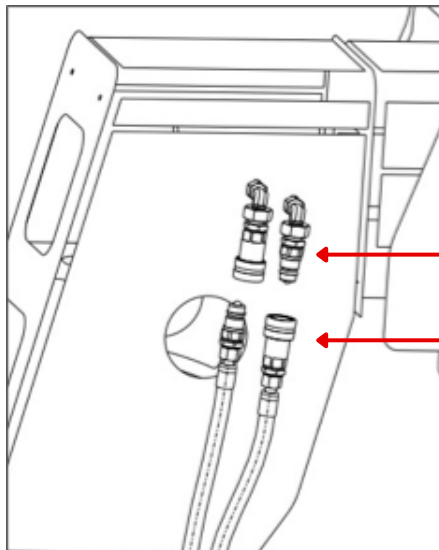
4. Locking the attachment to the carriage, ensure the bars are fully locked.
5. Fit the locking pin to keep the attachment locked to the carriage.
6. To unlock open the locking bars and lower the carriage and withdraw from the attachment.



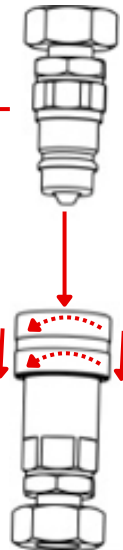
AUXILIARY VENTING

To release auxiliary adaptor pressure.

1. Dropping the auxiliary pressure turn the engine off and keep the ignition key in the first position with the screen on.
2. Press and hold the auxiliary venting button, as highlighted. Once pressures dropped the on-screen warning will show, this indicates the pressure has been released in the auxiliary system and hoses can be connected or removed.



Male Coupling



Connecting adaptors

3. Push male coupling into the female pulling back the female locking collar and lock after hose connected.

Female Coupling

TIE DOWN POINTS

WARNING! Risk of serious injury or death!

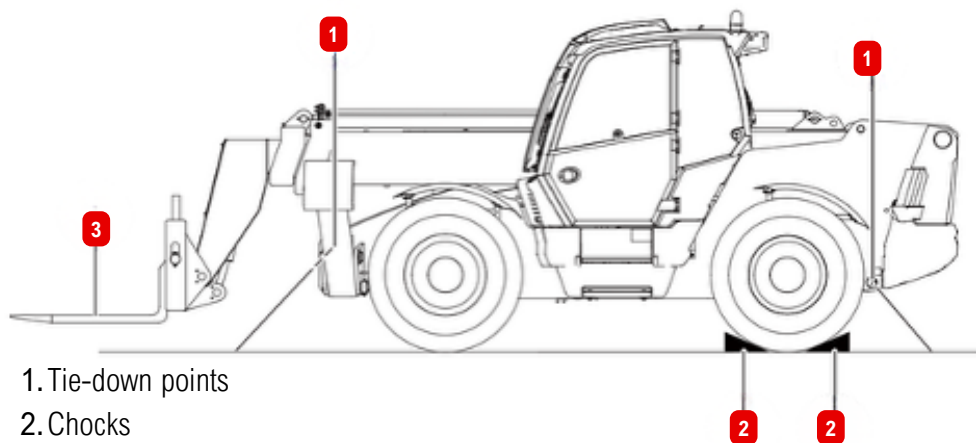
To avoid damage to the machine during transportation:

- Position the rearview mirrors inward toward the cab.
- Secure any removed parts to the trailer.
- Do not secure the front of the boom. Secure chains and cables to the machine frame and fork attachment.
- Prevent the chains and cables from crossing or pressing against the machine, which could result in damage to the machine or loss of the load.

Failure to follow these warnings could result in death or serious injury.

When the machine has been loaded, follow these procedures to tie down the machine:

1. Place chocks (2) at both ends of the wheels to prevent machine movement during transportation.
2. Secure the machine with suitable chains and cables at the tie-down points (1) on the front and rear frames.
3. Secure the forks (3) with suitable chains and cables.



1. Tie-down points

2. Chocks

3. Forks

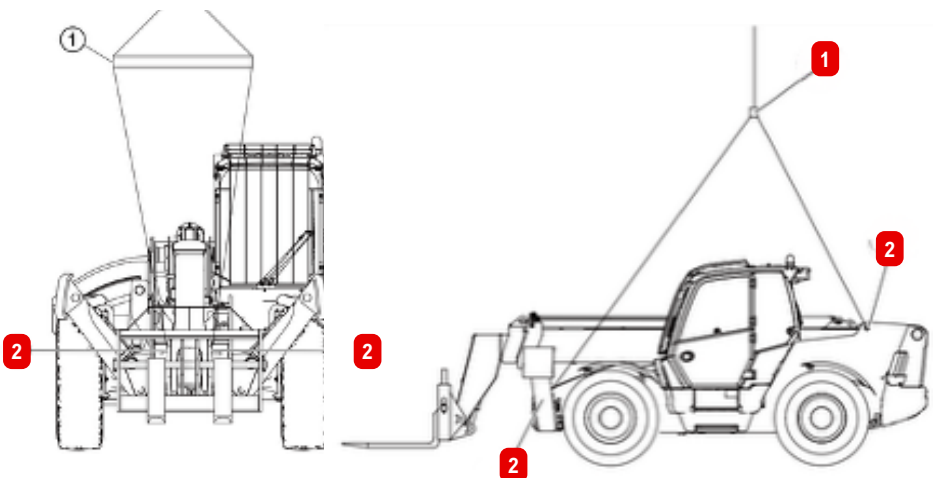
LIFTING THE MACHINE

WARNING! Risk of serious injury or death!

- Make sure all lifting devices are in safe operating condition with a sufficient capacity rating to safely support the intended load.
- Never lift the machine with a person inside the cab.
- Do not allow bystanders near or under a lifted machine.
- Never lift the machine by the boom. Failure to follow these warnings could result in death or serious injury.

Verify the weight of the machine. See “Technical Specifications”

1. Park the machine on a firm, level surface.
2. Cover the exhaust opening to prevent contamination.
3. Use a spreader bar (1) and suitable cables at the lifting points (2) on the front and rear frame to prevent machine damage.
4. Lift the machine 25–30cm (10–12in.) and check the balance of the load. If the machine is not balanced, lower the machine to the ground and adjust the cables and spreader bar.



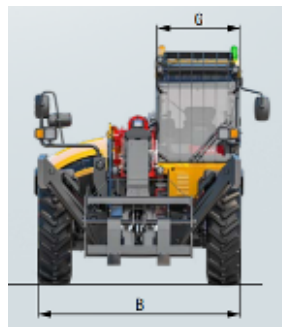
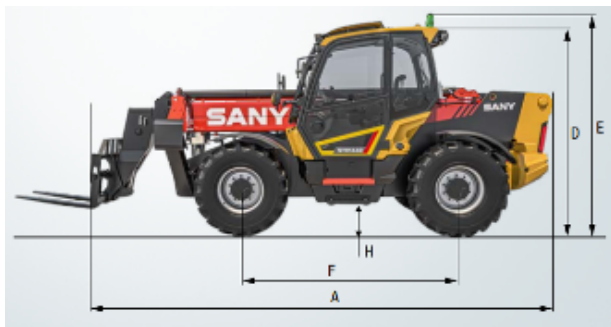
1. Spreader Bar
2. Lifting Points

FLUIDS & LUBRICANTS

Model	Name	Specification	Capacity
All	Front axle	Heavy-duty gear oil 80W-90	13 L
All	Rear axle	Heavy-duty gear oil 80W-90	7.8 L
All	Planetary hub (each)	Heavy-duty gear oil 80W-90	0.95 L
All	Transmission	SAE80W-90 API GL4	4.2 L
All	Engine cooling system	A mixture of ethylene glycol or propylene glycol	25 L
All	Engine crankcase	Diesel engine oil CJ-4 15W-40	9.5 L
All	Fuel tank	Diesel oil fuel - EN 590 (B7)	150 L
742-936	Hydraulic oil tank	Normal temperature hydraulic oil HV 32	98 L
1440-1840	Hydraulic oil tank	Normal temperature hydraulic oil HV 32	120 L
All	Brake fluid	Normal temperature hydraulic oil HV 32	4.5 L
All	Grease	EP Grease NLGI (Extreme Pressure)	

NOTE: The capacities in the above table are approximations. Proper fluid types should be selected according to the different environmental temperatures. For exact capacities, use the inspection points, inspection plugs, dipsticks, and sight glasses.

DIMENSIONS



			STH742	STH936	STH1133	STH1440	STH1840
DIMENSIONS							
A	Length to front of carriage	mm	4990	4990	5450	6160	6200
B	Overall width	mm	2350	2350	2338	2420	2420
C	Overall width stabilisers fully deployed	mm	NA	NA	2510	2570	3400
D	Height over cab without beacon	mm	2540	2540	2540	2590	2590
E	Height over cab with beacon	mm	2665	2665	2665	2750	2720
F	Wheelbase	mm	2750	2750	2750	2750	2750
G	Overall cabin width	mm	950	950	950	950	950
H	Ground clearance	mm	400	400	360	370	370
	Turning radius over tyres	mm	3850	3850	3850	3850	3850
	Operating mass (with Forks)	kg	8325	9100	10300	10980	12300

POINT LOADS

Machine loaded with models' maximum capacity

Load per front tyre	kg	5403	5030	5662	6608	7200
Load per rear tyre	kg	714	1270	975	883	950
Load per stabiliser	kg	NA	NA	4297	4913	5225

Machine unloaded with boom in horizontal travel position

Load per front tyre	kg	1878	1960	2795	2677	2970
Load per rear tyre	kg	2275	2550	2355	2841	3180

MAINTENANCE SAFETY

Lockout/Isolation procedure

Always perform the lockout/isolation procedure before servicing machine.

If anyone starts the engine or operated the joystick during the maintenance, serious accidents will happen.

Before any maintenance work on the machine, be sure to:

Park the machine on safe and level ground with the park brake applied.

1. A locking device must be installed on the power supply or power source. Make sure all power is locked.
2. Set the warning label of "Shut down! Under maintenance!" on the steering wheel or ignition switch.
3. If necessary, place a warning label around the machine.
4. Working under any raised boom, the lift cylinder must be fitted with the safety strut. See operator's manual for safe fitting.



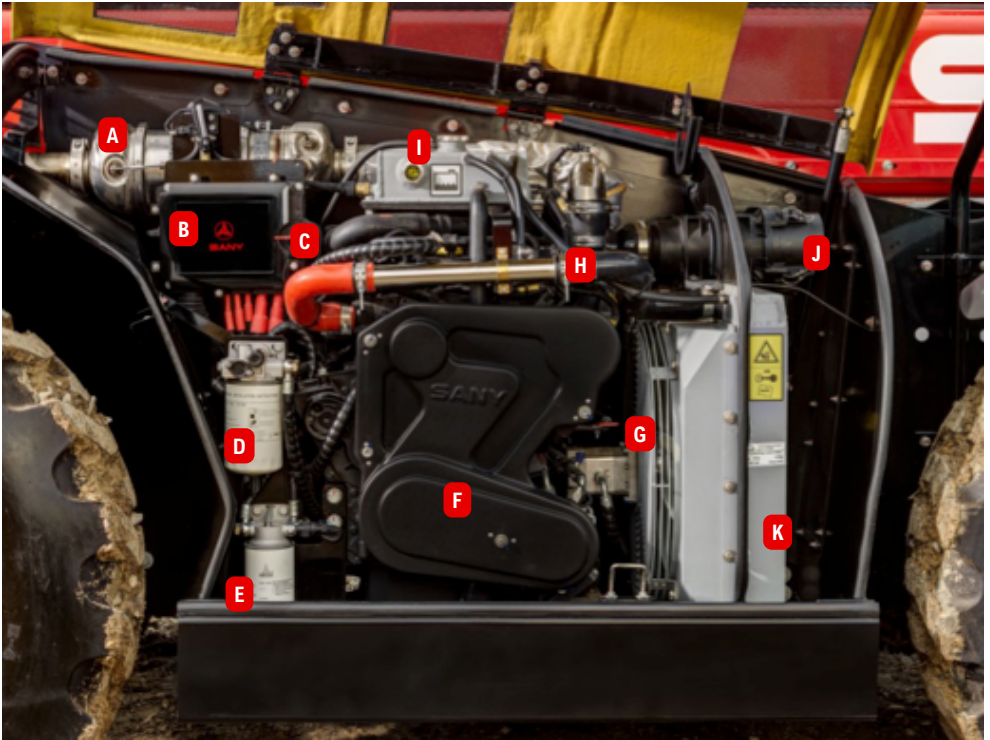
DAILY INSPECTION

DAILY / 10 HOURS	Operation
Isolate the battery and remove the ignition key	Visual check
Brake fluid level front of cabin	Visual check
Tyre pressures & inspect tyres for damage	Test/check
Wheel nuts are secure	Visual check
Axle hub drain plugs leak free & secure	Visual check
Inspect the boom free from damage	Visual check
Inspect boom wear pads for security	Visual check
Inspect all visible hydraulic hoses for leaks & damage	Visual check
Check the carriage & attachment functions & secure	Test/check
Inspect all lifting equipment & attachments	Visual check
Check hydraulic oil	Visual check
Check all road & working lights function	Test/check
Check steering and wheel alignment all modes	Test/check
All warning decals are visible and not damaged	Visual check
All mirrors are free from damage and correctly positioned	Visual check
Engine bay:	
Check for coolant leaks	Visual check
Check the engine coolant level	Visual check
Check the engine oil level	Visual check
Check the engine air-filter elements, clean or replace	Visual check
Drain any water from the fuel & water separator	Test/check
Check the transmission for leaks	Visual check

WEEKLY INSPECTION

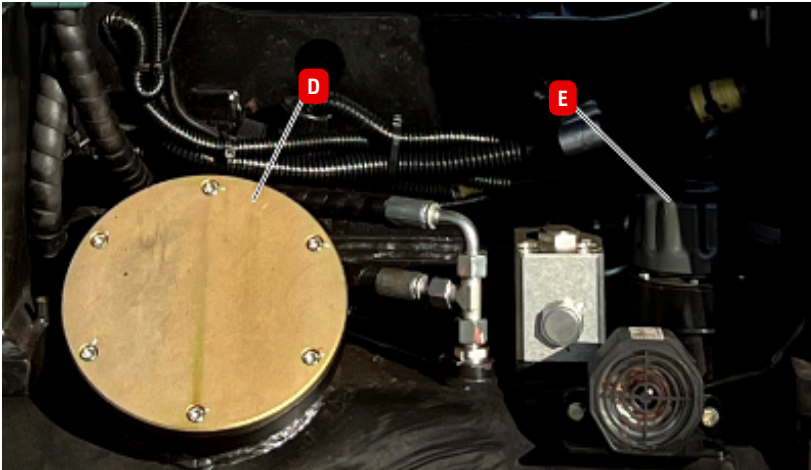
WEEKLY CHECKS / 50 HOURS	Operation
Isolate the battery and remove the ignition key	Visual check
Check the front axle and brake components for oil leaks	Visual check
Clean the front axle breather	Clean
Lubricate the front axle	Lubricate
If fitted, lubricate the outrigger frame pivot points	Lubricate
Lubricate the front tilt cylinder	Lubricate
Lubricate the left and right outriggers	Lubricate
Check the rear axle for oil leaks	Visual check
Clean the rear axle breather	Clean
Lubricate the rear axle	Lubricate
Inspect the battery hold-down straps	Visual check
Check the function of the air conditioner	Test/check
Inspect the air conditioner condenser, lines, and hoses	Test/check
Check the air conditioner wiring harnesses and connectors	Visual check
Inspect the evaporator & condenser heat-exchanger plate	Visual check
Check the receiver-drier sight glass for bubbles	Visual check
Lubricate the boom extension cylinder	Lubricate
If fitted, lubricate the boom stabiliser cylinder	Lubricate
Lubricate the boom lift cylinder	Lubricate
Lubricate the boom pivot point	Lubricate
Lubricate the fork tilt cylinder	Lubricate
Lubricate the forks and fork bar	Lubricate

ENGINE BAY



- A. Diesel Particulate Filter (DPF)
- B. High-capacity fuse board
- C. Battery isolator
- D. Fuel water separator, manual priming pump
- E. Fuel filter
- F. Engine pulley belt cover
- G. Engine oil dipstick
- H. Engine oil filler points
- I. Coolant header tank and filler
- J. Two element air filter
- K. Cooling pack and fan

REAR CHASSIS



- A. Top rear boom cover
- B. Bottom rear chassis cover
- C. Fasteners

- D. Filter housing cover plate
- E. Hydraulic oil tank filler cap

SANY

Not all products are available in all markets. As part of our continuous improvement process, we reserve the right to modify specifications and designs without giving prior notice. Machines shown may feature additional options other than the standard machine specification.