



SY155U QUICK START GUIDE



SY155U Display



- 01 Error Message
- 02 Machine Emergency Stop Active
- 03 GPS Active
- 04 Date And Time
- 05 Tool Selection Display
- 06 DEF Level Gauge
- 07 Engine Speed (RPM)
- 08 Engine Coolant Temperature
- 09 Camera Display
- 10 Work Mode
- 11 Throttle Position
- 12 Fuel Gauge
- 13 Work Mode Selection
- 14 Auto Engine Idle
- 15 Travel Speed Selection
- 16 Camera Settings
- 17 Main Menu



Display Icon	Value	Colour	Function
	○	Grey	Normal Status
	●	Green	Escape Mode
	●	Red	Engine Power Limited
	○	Grey	Normal Status
	●	Green	Automatic Regeneration
	◐	Yellow	Manual Regeneration Required
	●	Yellow	Manual Regeneration in Progress
	●	Red	Engine Torque Alarm
	◐1HZ	Red	Primary Limitation of Engine Torque
	◐3HZ	Red	Ultimate Limitation of Engine Torque
	○	Grey	Normal Status
	●	Red	Heat
	○	Grey	Normal Status
	●	Yellow	High Exhaust Temperature
	○	Grey	Normal Status
	◐	Yellow	Manual Regeneration Required
	●	Yellow	Manual Regeneration in Progress
	●	Red	DPF Change Required
	○	Grey	Normal Status
	●	Yellow	Oil Change Required
	●	Red	Too Low Engine Oil Pressure
	○	Grey	Normal Status
	●	Green	Maintenance Required
	●	Yellow	Error Code
	○	Grey	Normal Status
	●	Yellow	Primary Overload Alarm
	●	Red	Ultimate Overload Alarm
	○	Grey	Battery Being Charged
	●	Red	Low Battery Voltage
	◐	Red	Low Battery

Work Modes



- 01 The machine work mode is enabled by selecting the desired mode on the soft keypad at the bottom of the display. Press the Mode Select button to cycle through options.

Work Mode	Operation
S	Standard / Normal operation.
H	Heavy Duty Mode. For when additional power is required for heavy applications. Power Boost.
L	Light Duty / Lifting. For when fine control is required.
B	Breaker. This mode prioritises hydraulic oil flow to auxiliary lines over general machine services. If a machine is left in this mode and then an operator tries to dig, the machine may feel underpowered and sluggish.

Exhaust Regeneration



- 01 The machine will run an auto regen as required to clear soot from the exhaust system.

For the regen to commence the machine must meet certain parameters with regards to temperature.

When the Auto Regen light illuminates continue to work the machine normally until the regen has completed.



- 02 A regen can be inhibited in the event that carrying out the process with high exhaust temperatures may cause a health and safety concern, for example the machine is working next to flammable material.

To inhibit the regen press the Inhibit switch on the front right hand softkey pad.

The regen will stop and the Regen Inhibit light will illuminate on the display. The machine can now be moved to a safe area to allow the process to continue.

- * DO NOT inhibit regens unnecessarily.
- * All inhibits are recorded within the machine ECU.
- * Multiple inhibits will lead to a service regen being required or may result in damage to the exhaust system. Damage caused in this way is NOT covered by warranty.

Manual Regeneration

A manual regeneration is only available if the machine requests one. It will only do so if automatic regenerations have been inhibited or cancelled.



01 The two regeneration lights will flash yellow alternately letting the operator know a manual regeneration is required.



02 To carry out a manual regen the machine must be up to operating temperature.

The safety lever must be down.

The throttle dial must be on 1.

Select the regeneration button on the rear right hand softkey pad.



03 Once the regen has started the yellow regen lights will both be illuminated together, and the machine will increase the engine RPM automatically.

The Manual Regen light will stay illuminated throughout the process

DO NOT leave the machine unattended.

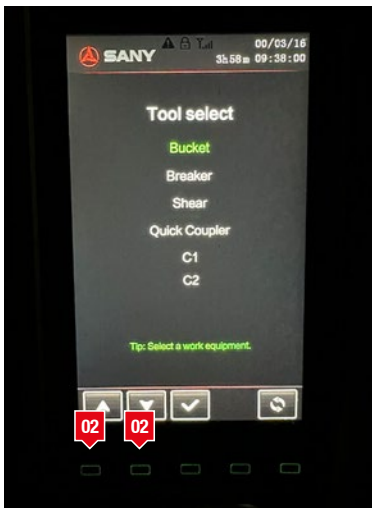
DO NOT select any services or operate the machine.

DO NOT open the bonnet. Exhaust temperatures may be in excess of 700 degrees centigrade.

Tool Selection



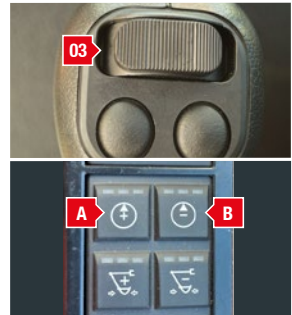
- 01 To enter the tool select menu, press and hold the Auto Idle button on the bottom of the display for 3 seconds.



- 02 Select the tool you require by navigating up and down with the soft keys on the bottom of the display. Once the tool you require is highlighted green, press the Tick soft key to store the selected tool for operation.

1. Bucket
2. Breaker/ Hammer
3. Shear/ Grab, Rotate
4. Quick Hitch
5. C1 – Programmable option
6. C2- Programmable option

Tool Setup



01 To access tool flow setup,

Switch machine ignition on, engine off.

Select the required tool.

Hydraulic isolation lever in work position.

Press the highlighted button.

02 The second picture will come up on the display.

AUX1+ :
Is RR, right handle slider to right.

AUX1- :
Is RL, right handle slider to left.

AUX2+ :
Is LR, left handle slider to right.

AUX2- :
Is LL, left handle slider to left.

03 To adjust the Flow,

Hold your AUX slider in the direction required.

Hold slider into required position.

To increase flow press + button (A).

To decrease flow press – button (B).

*Figures on the display screen are a guide percentage. All flows should be verified using a flow meter to ensure the attachment flow is correct.

Quick Hitch Process



- 01 To access the quick hitch page, press and hold the Travel Speed selection button for 5 seconds.

The quick coupler activation screen will appear.



- 02 To unlock the hitch, first you must;

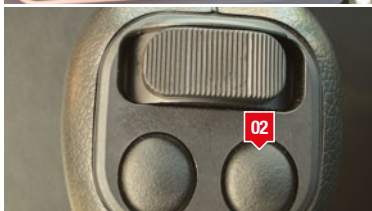
Activate the quick hitch by pressing the Activate Quick Coupler soft key (1) (buzzer will sound).

Then press the Unlock soft key (2).

Select right hand button on left hand lever control and press throughout the entire detachment process.

Crowd the bucket fully in to detach.

Whilst still holding the button connect the next attachment.



Softkey Pad



1. Start-Stop Switch
2. Overload Alarm Switch (Optional)
3. Alarm Switch
4. Amber Beacon Switch
5. Front Work Lights Switch
6. Rear Work Light Switch (Not Equipped)
7. Auto-deceleration Switch
8. Regeneration Inhibit Switch
9. Aux Flow Increase
10. Aux Flow Decrease
11. Not Used
12. Not Used
13. Work Mode Change
14. Travel Speed Selection
15. Manual Regeneration Switch
16. Engine Escape Mode Switch

Arm Rest



1. Ignition Switch
2. Hydraulic Dozer Blade
3. Travel Speed Selection Button
4. Windscreen Wiper
 - First Position, Intermittent Wipe
 - Second Position, Constant Wipe
5. Windscreen Wash
6. Engine Speed Throttle Dial

Service Intervals Guide

Regular inspection	Maintenance Work	I	C	R	L	A
Daily Inspection	Water build-up in the Fuel System	I	C			
	Engine Oil	I	C			A
	Lubrication Points	I			L	
Every 250hrs	Engine Oil	I				A
	Air Filter	I	C			
	Climate Control	I	C			
Every 500hrs*	Engine Oil Filter			R		
	Engine Oil			R		
	Swing Motor Oil	I				A
	Final Drive Motor Oil	I				A
	Slewing Gear				L	
	Fuel Filter			R		
	Fuel Pre-filter			R		
	Radiator Cooling Fins	I	C			
Every 1000hrs	Hydraulic Hose Connections	I				
	Hydraulic Oil Return Filter			R		
	Hydraulic Pilot Oil Filter			R		
	Fan Belt / Aux Belt	I	C			A
	Final Drive Motor Oil			R		
	DEF Tank Filter			R		
	DEF Pump Filter			R		
Every 2000hrs	Swing Motor Oil			R		
	Fan Belt/Aux Belt			R		
	Coolant			R		
	Hydraulic Oil Suction Filter	I	C			
	Alternator	I				
	Starter	I				
Every 4000hrs	Valve Play, Engine	I				A
	Water Pump	I				
	Hydraulic Oil Suction Filter			R		
Every 6yrs	Hydraulic Oil**			R		
	Hydraulic Pipes			R		
Every 10,000hrs	SANY Service					
Check	Maintenance Work	I	C	R	L	A
As required	Air Filter	I	C	R		
	Coolant	I		R		
	Radiator Cooling Fins		C			
	Air Conditioning System Coolant	I				A
	Track Tension	I				A
	Track Shoes Fastening	I				A
	Bucket	I		R		A
	Bucket Teeth	I		R		
Roof Hatch Gas Spring	I		R			

Maintenance Steps	After (hr)			Every (hr)										
	50hrs	100hrs	500hrs	8hrs	50hrs	100hrs	200hrs	250hrs	500hrs	1000hrs	2000hrs	2500hrs	4000hrs	
Final Drive Motor Oil											R	R		R
Boom Swing Pin						L	L				L			
Boom Swing Cylinder Pin						L	L				L			
Boom Pins				L	L	L					L			
Boom Socket-head Bolts				L	L	L					L			
Boom / Arm Connecting Pin				L	L	L					L			
Arm Cylinder Pin				L	L	L					L			
Arm / Bucket Connecting Pin				L	L	L					L			
Bucket Socket-head Pins				L	L	L					L			
Slewing Gear					L	L					L			
Slewing Ring Raceway						L	L				L			
Blade Pin					L									
Blade Cylinder Pin					L	L					L			
Door Pin					L	L					L			
Track Tensioner					I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A

* First 500hrs all oils and filters changed except Hydraulic oil

** Hydraulic oil must be changed at 2000hrs if used with attachments

Service Refill Capacities	
Fuel Tank	245 l
Engine Coolant	23.6 l
Engine Oil	15 l
Drive Motor (per side)	1.8 l
Adblue	20 l
Hydraulic Oil Tank	140 l

KEY	
Inspect	I
Clean	C
Replace	R
Lubricate	L
Adjust	A

Machine Dimensions	
Overall Length	8,015 mm
Overall Width (700mm tracks)	2,690 mm
Overall Width (600mm tracks)	2,590 mm
Overall Width of Superstructure	2,490 mm
Overall Height above Cab	2,820 mm

