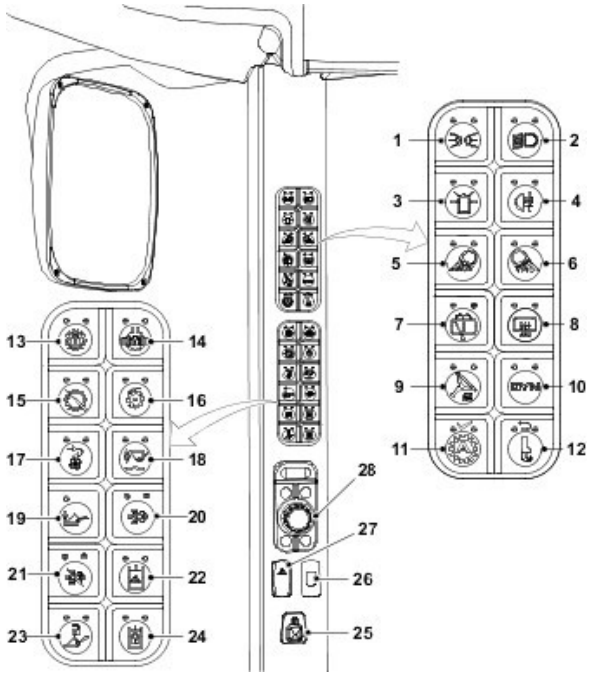
427, 437, 435S & 457 (S)
(WHEELED LOADING SHOVEL)
QUICK REFERENCE GUIDE

This Quick Reference Guide **DOES NOT** replace the Operators Manual. You **MUST** read **ALL** the disclaimers, safety and other instructions within the Operators Manual before initially operating this product. Accordingly, no legal claims can be entertained based on the data, illustrations or descriptions in this Quick Reference Guide.

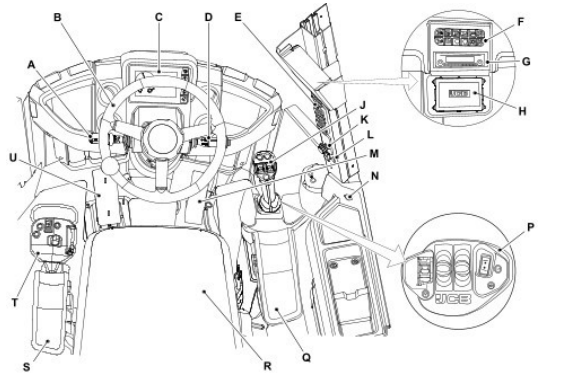
SWITCHES B PILLAR

No.	Function	Description
1	Road Lights	Turns side lights on/off. Can operate with ignition off.
2	Headlamps	Turns headlamps on/off. Requires side lights and ignition on.
3	Beacon	Turns roof beacon on/off. Can operate with ignition off.
4	Rear Fog Lamp	Activates rear fog lamp when headlamps are on.
5	Front Work Lamps	Cycles through primary, additional (if fitted), and off.
6	Rear Work Lamps	Cycles through rear work lamps; requires road lights on.
7	Rear Wash/Wipe	Operates rear wiper; hold for wash and wipe.
8	Heated Rear Screen	Activates heated rear screen and mirrors (10 min timer).
9	Secondary Steering Test	Tests backup steering system when stationary.
10	Engine Mode	Switches between Standard and Dynamic modes.
11	Auto Shift	Enables automatic gear selection.
12	Tow Hitch Camera	Switches reverse camera view between rear and hitch cameras.
13	Torque Converter Lockup	Enables automatic lockup for improved efficiency.
14	Auto Differential Lock	Automatically locks front differential when required.
15	Transmission Disconnect	Prioritises hydraulic power during braking.
16	Constant Flow Auxiliary	Provides continuous auxiliary hydraulic flow.
17	Manual Fan Reverse	Reverses cooling fan while switch is held.
18	Smooth Ride System (SRS)	Improves ride comfort on rough terrain.
19	Return to Dig	Returns bucket automatically to dig position.
20	Regeneration Request	Starts manual DPF regeneration when permitted.
21	Regeneration Inhibit	Prevents exhaust regeneration when required.
22	Hydraulic Mode	Selects Normal or Precision hydraulic speeds.
23	Quick Hitch Unlock	Releases attachment locking pins from the cab.
24	Hydraulic Lock	Enables/disables loader hydraulics.
25	Mirror Switch	Controls mirror functions.
26	Park Brake	Applies or releases parking brake.
27	Hazard Lights	Activates hazard warning lights.
28	Rotary Control	Navigates and adjusts instrument panel settings.

SWITCHES B PILLAR

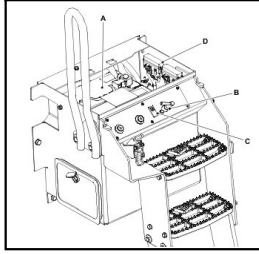


COMPONENT LOCATION



A	Transmission	L	Park brake switch
B	Steering wheel	M	Accelerator pedal
C	Front display panel	N	Ignition switch
D	Multi purpose steering column switch	P	Multi lever controls
E	Console switches	Q	Right armrest
F	Temporature controls	R	Seat
G	Radio	S	Left armrest
H	Secondary display panel (option)	T	Steering lever pod
J	Multi axis joystick	U	Service brake pedal
K	Rotary switch panel		

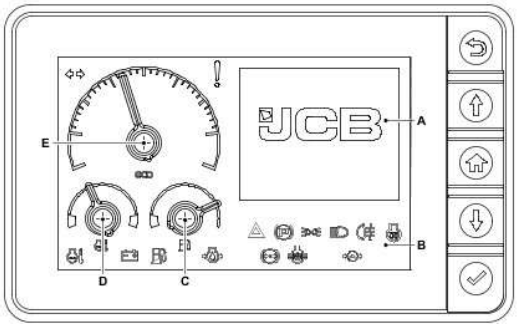
BATTERY LOCATION



Located under the panel at the top entry step

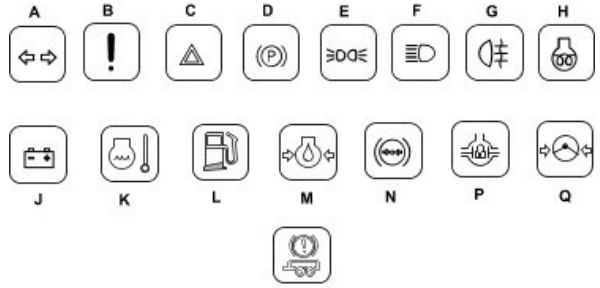
A	Batteries
B	Battery isolator
C	Battery isolator warning LED
D	Primary fuses

FRONT DISPLAY



A	LCD (Liquid Crystal Display) screen
B	Warning and indicator lamps
C	Fuel level gauge
D	Coolant temperature gauge
E	Engine speed

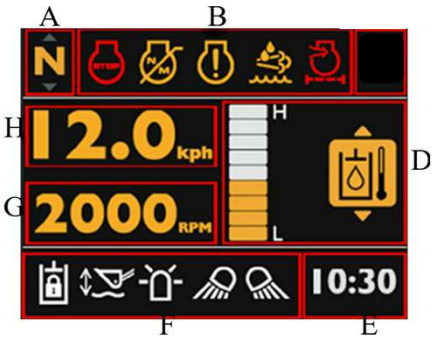
WARNING AND INDICATOR LAMPS



A	Direction indicators	J	Battery charging condition
B	Master warning	K	High coolant temperature
C	Hazard warning	L	Low fuel level
D	Park brake	M	Engine oil pressure
E	Sidelight	N	Brake system pressure
F	Main-beam lights	P	Differential lock
G	Rear fog lights	Q	Low steering pressure
H	Engine pre-heat	R	ABS (Anti-Lock Braking System) for a compatible trailer

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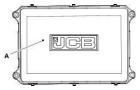
LCD SCREEN

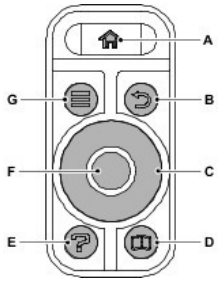


A	Gear selection
B	Drivetrain icons
D	Info area
E	Clock
F	Chassis icons
G	Engine speed
H	Ground speed

SECONDARY DISPLAY (OPTION)

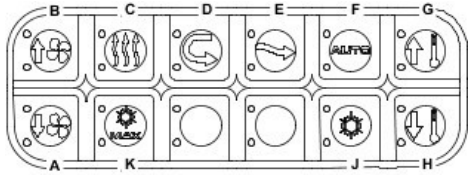
A	Secondary display





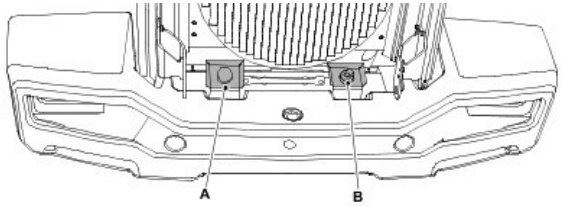
A	Home button
B	Return button
C	Rotary dial
D	On-screen handbook
E	Function help button
F	Select button
G	Blank

ATC (AUTOMATIC TEMPERATURE CONTROL) PANEL



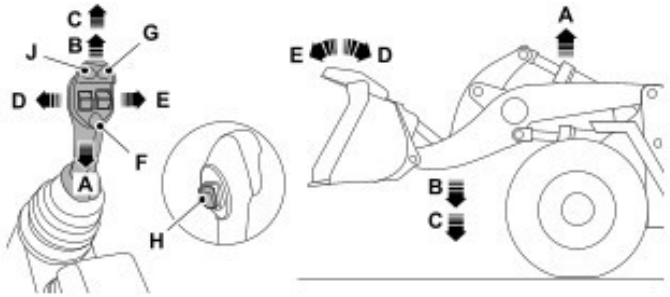
A	Fan speed - Down	F	Automatic mode
B	Fan speed - Up	G	Temperature - Up
C	Demist/defrost	H	Temperature - Down
D	Air recirculation	J	Air-conditioning on/off
E	Full fresh air	K	Max cold

REFUELLING



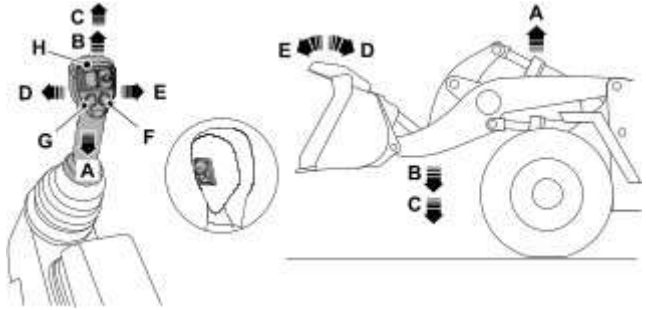
A	DEF tank cap (blue)
B	Diesel fuel tank cap (black)

LOADER CONTROLS - JOYSTICK



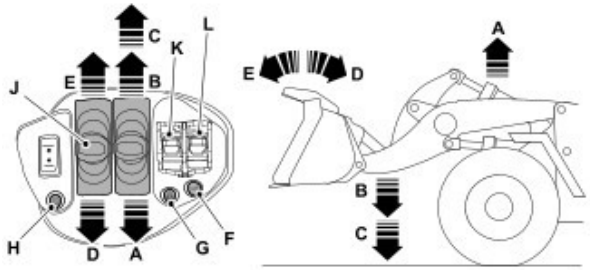
A	Lift arms raise	F	Differential lock
B	Lift arms lower	G	Horn
C	Lift arms float	H	Forward/reverse switch
D	Shovel crowd	J	Transmission kickdown
E	Shovel dump		

LOADER CONTROLS – AGRICULTURAL JOYSTICK



A	Lift arms raise	E	Shovel dump
B	Lift arms lower	F	Differential lock
C	Lift arms float	G	Transmission kickdown
D	Shovel crowd	H	Forward/reverse switch

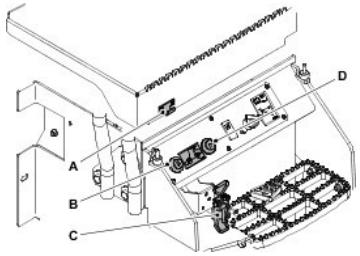
LOADER CONTROLS – MULTI LEVER



A	Lift arms raise	F	Differential lock
B	Lift arms lower	G	Horn
C	Lift arms float	H	Forward/reverse switch
D	Shovel crowd	J	Transmission kickdown
E	Shovel dump		

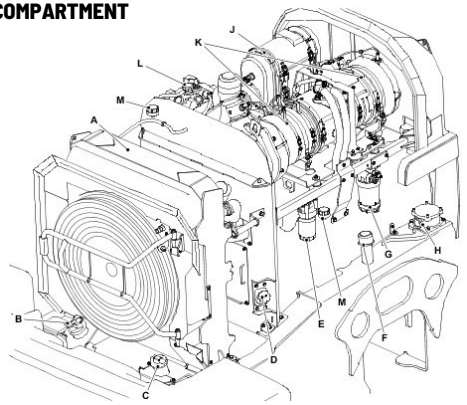
ENGINE COMPARTMENT

ACCESSING ENGINE COMPARTMENT



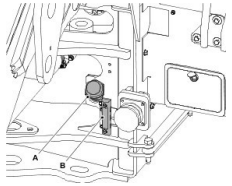
A	Clasp
B	Down arrow switch
C	Clamp
D	Up arrow switch

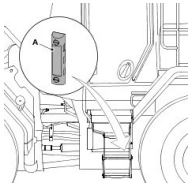
ENGINE COMPARTMENT



A	Cooling Pack	G	Fuel filter
B	DEF tank cap (blue)	H	Hydraulic oil filter
C	Diesel fuel tank cap (black)	J	Air filter
D	Engine oil filler	K	Aftertreatment unit
E	Engine fuel filter	L	Coolant filler
F	Hydraulic oil filler	M	DEF tank breather

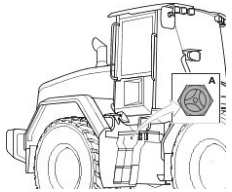
TRANSMISSION OIL





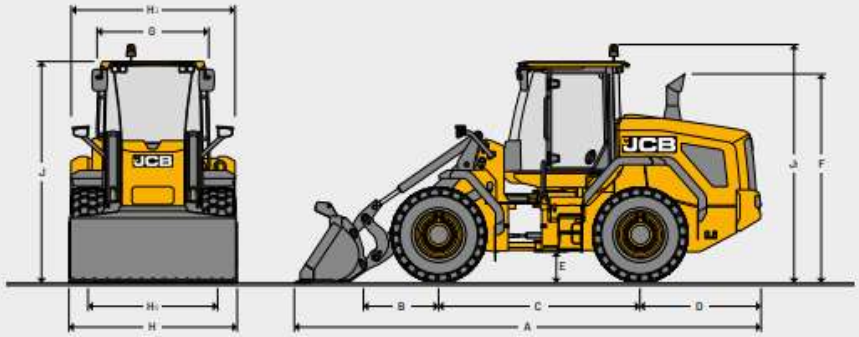
A	Transmission oil filler point
B	Transmission oil level gauge (457)
A	Transmission oil level gauge (427,437,435S)

HYDRAULIC OIL



A	Hydraulic oil level gauge

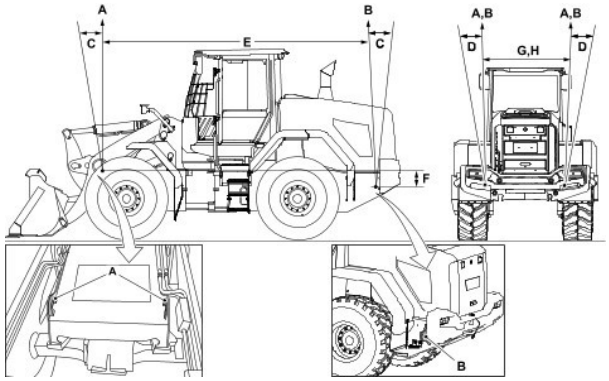
STATIC DIMENSIONS



STATIC			427			437				435S		457				457S	
			ZX	HT	HT HL	ZX	HT	HT HL	HT SHL	HT	HT HL	ZX	HT	HT HL	HT SHL	HT	HT HL
A	Overall length	mm	7,069	7,070	7,532	7,306	7,301	7,928	8,485	7,203	7,524	7,961	8,508	8,950	9,451	8,380	8,832
B	Axle to pivot pin	mm	1,108	1,134	1,596	1,228	1,246	1,873	2,430	1,252	1,252	1,622	1,577	2,018	2,727	1,498	1,950
C	Wheel base	mm	3,050	3,050	3,050	3,050	3,050	3,050	3,050	3,050	3,050	3,300	3,300	3,300	3,300	3,300	3,300
D	Axle to counterweight face	mm	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,841	1,841	1,971	1,971	1,971	1,971	1,962	1,962
E	Minimum ground clearance	mm	472	472	472	472	472	472	472	491	491	473	487	487	487	557	557
F	Height over exhaust	mm	3,159	3,159	3,159	3,159	3,159	3,159	3,159	3,154	3,154	3,224	3,197	3,197	3,197	3,267	3,267
G	Width over cab roof	mm	1,582	1,582	1,582	1,582	1,582	1,582	1,582	1,594	1,594	1,446	1,600	1,600	1,600	1,600	1,600
H	Max width over tyres	mm	2,583	2,583	2,583	2,598	2,598	2,598	2,598	2,961	2,961	2,699	2,698	2,698	2,698	2,969	2,969
H1	Wheel track	mm	2,054	2,054	2,054	2,070	2,070	2,070	2,070	2,229	2,229	2,100	2,100	2,100	2,100	2,234	2,234
J	Height over cab roof and lowered beacon	mm	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,742	3,742	3,423	3,427	3,427	3,427	3,505	3,505
	Pin height (maximum)	mm	3,904	3,876	4,306	4,021	4,021	4,675	5,238	3,876	4,306	4,110	4,307	4,691	5,273	3,864	3,864
	Front axle weight	kg	5,944	5,852	6,076	7,078	6,456	7,230	8,269	6,263	6,487	8,985	8,244	8,855	9,801	9,565	10,119
	Rear axle weight	kg	8,187	8,139	8,106	8,360	8,652	8,652	7,756	8,530	8,497	11,014	11,997	11,697	11,140	10,362	10,119
	Total weight	kg	14,131	13,991	14,182	15,438	15,108	15,881	16,024	14,793	14,984	19,999	20,240	20,552	20,941	19,926	20,238
R1	Maximum turn radius over shovel	mm	5,933	5,902	6,035	6,041	6,021	6,286	6,626	5,902	6,035	6,554	6,530	6,822	6,933	6,586	6,794
R2	Inside turn radius	mm	2,892	2,892	2,892	2,896	2,896	2,896	2,896	2,707	2,707	3,183	3,183	3,183	3,183	3,048	3,048
	Articulation angle	degree	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°

LIFTING POINTS

A	Front lifting points (load = 5.9t)
B	Rear lifting point (load = 3.4t)
C	Maximum angle = 0° (tolerance ±3°)
D	Maximum angle = 0° (tolerance ±3°)
E	Dimension = 4,486mm
F	Dimension = 234mm
G	Front dimension = 952mm
H	Rear dimension = 1,590mm



TIE DOWN POINTS

A	Tie down decal	G	Dimension = 1,000mm
B	Front tie down points (both sides) (load = 6.28t)	H	Dimension = 2,000mm
C	Front tie down points (load = 7.48t)	J	Dimension = 2,254mm
D	Rear tie down points (both sides) (load = 5.33t)	K	Dimension = 2,250mm
E	Rear tie down points (load = 5.59t)	L	Dimension = 294mm
F	Dimension = 1,000mm	M	Dimension = 250mm

