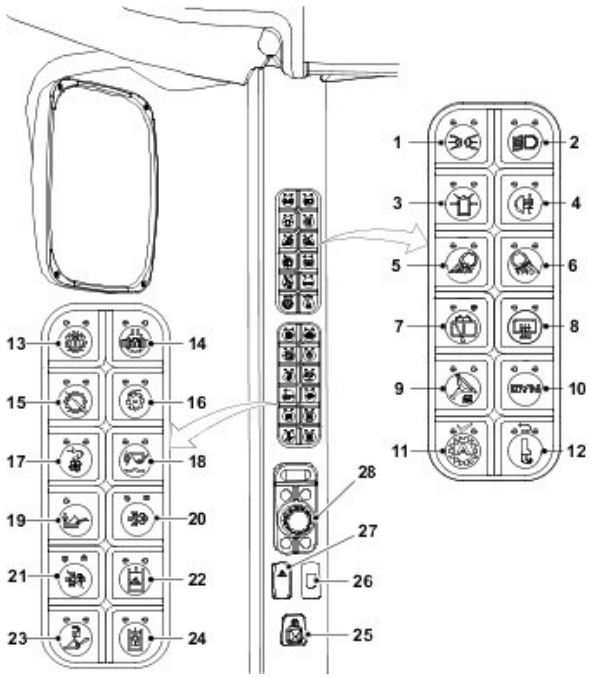
411, 413S, 417
(WHEELED LOADING SHOVEL)
QUICK REFERENCE GUIDE

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.

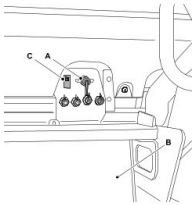
SWITCHES B PILLAR

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	Blank	
11	Auto Shift	Enables automatic gear selection.
12	Tow Hitch Camera	Switches reverse camera view between rear and hitch cameras.
13	Blank	
14	Blank	
15	Transmission Disconnect	Prioritises hydraulic power during braking.
16	Constant Flow Auxiliary	Provides continuous auxiliary hydraulic flow.
17	Reverse Fan	Reverses cooling fan while switch is held.
18	Smooth Ride System (SRS)	Improves ride comfort on rough terrain.
19	Detent	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



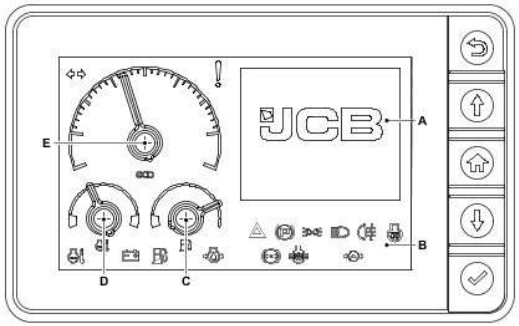
BATTERY LOCATION



Located at the top entry step

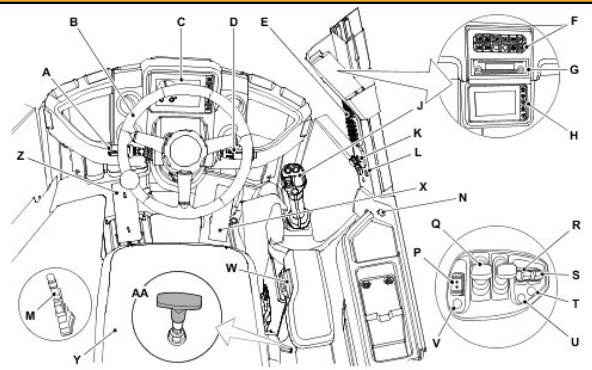
A	Battery isolator
B	Battery compartment
C	Battery isolator warning lamp

FRONT DISPLAY



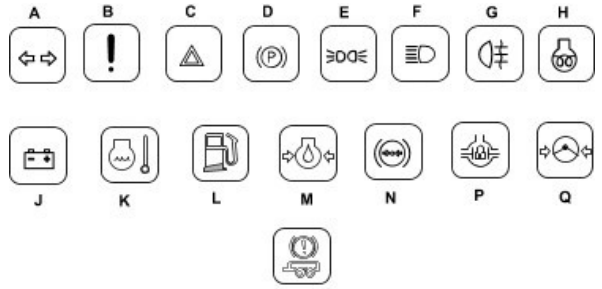
A	LCD (Liquid Crystal Display) screen	D	Coolant temperature gauge
B	Warning and indicator lamps	E	Engine speed
C	Fuel level gauge		

COMPONENT LOCATION



A	Transmission	P	Forward reverse switch
B	Steering wheel	Q	Multi lever controls
C	Front display panel	R	Primary auxiliary controller (option)
D	Multi purpose steering column switch	S	Secondary auxiliary controller (option)
E	Console switches	T	Transmission disconnect
F	Heating/ Air Conditioning controls	U	Horn
G	Radio	V	Transmission kickdown switch
H	Secondary display panel (option)	W	Armrest
J	Proportional lever controls	X	Accelerator pedal
K	Rotary switch panel	Y	Seat
L	Park brake switch	Z	Service brake pedal
M	Park brake lever	AA	Rear hitch release cable (option)
N	Starter switch		

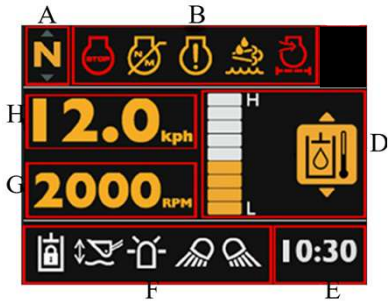
WARNING AND INDICATOR LAMPS



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

Revision 1 - 01/09/2026

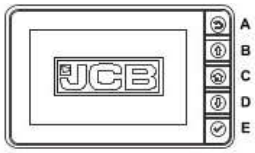
LCD SCREEN

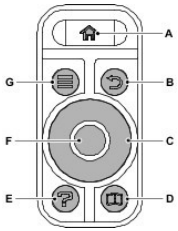


A	Gear selection
B	Drivetrain icons
D	Info area
E	Clock
F	Chassis icons
G	Engine speed
H	Ground speed

SECONDARY DISPLAY (OPTION)

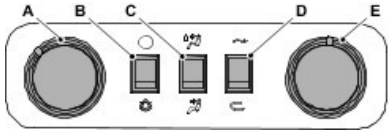
A	Back button
B	Up button
C	Home button
D	Down button
E	Select button





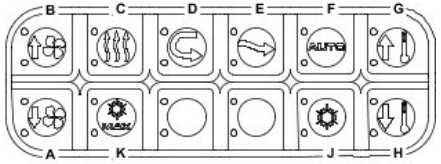
A	Home button
B	Return button
C	Rotary dial
D	On-screen handbook
E	Function help button
F	Select button
G	Blank

MANUAL AIR-CONDITIONING CONTROLS WITH MODE



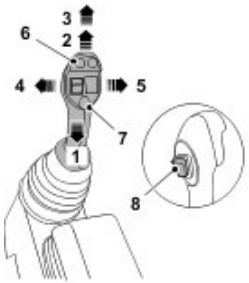
A	Fan control switch	D	Re-circulation switch
B	Air-conditioning switch	E	Temperature control switch
C	Windscreen and operator mode switch (option)		

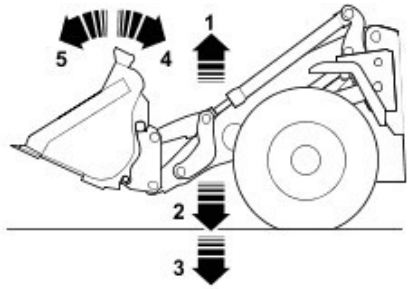
ATC (AUTOMATIC TEMPERATURE CONTROL) PANEL



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

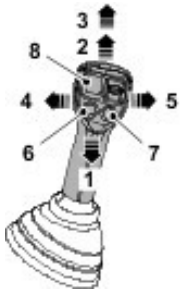
LOADER CONTROLS - JOYSTICK

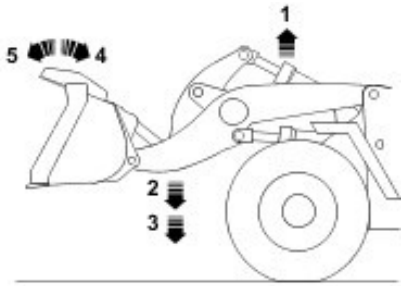




1	Lift arms raise	5	Shovel dump
2	Lift arms lower	6	Transmission kickdown
3	Lift arms float	7	Transmission disconnect
4	Shovel crowd	8	Forward/reverse switch

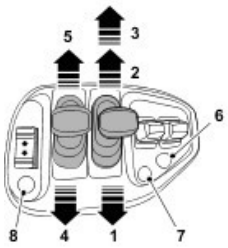
LOADER CONTROLS – AGRICULTURAL JOYSTICK

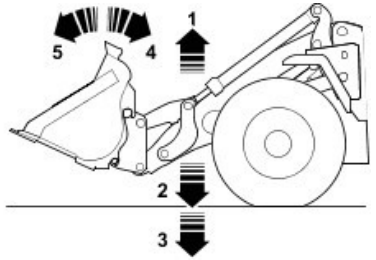




1	Lift arms raise	5	Shovel dump
2	Lift arms lower	6	Transmission kickdown
3	Lift arms float	7	Transmission disconnect
4	Shovel crowd	8	Forward/reverse switch

LOADER CONTROLS – MULTI LEVER

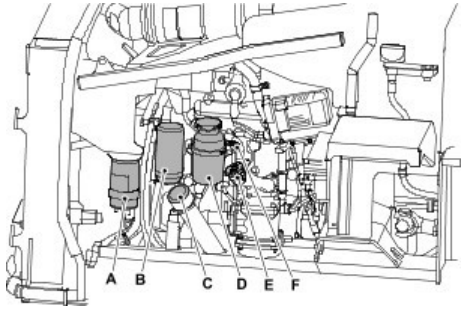




1	Lift arms raise	5	Shovel dump
2	Lift arms lower	6	Transmission disconnect
3	Lift arms float	7	Horn
4	Shovel crowd	8	Transmission kickdown

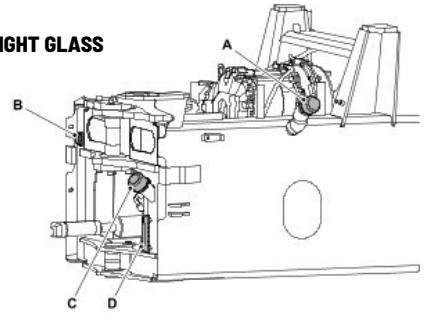
ENGINE COMPARTMENT

ENGINE COMPARTMENT



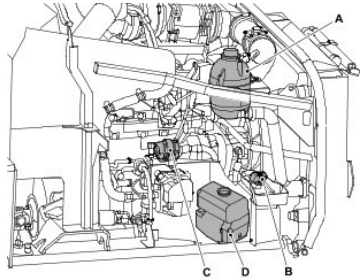
A	Fuel filter	D	Engine oil filter
B	Water Separator	E	Engine oil filler point
C	Hydraulic oil filler point	F	Engine oil dipstick

FILL POINTS AND SIGHT GLASS



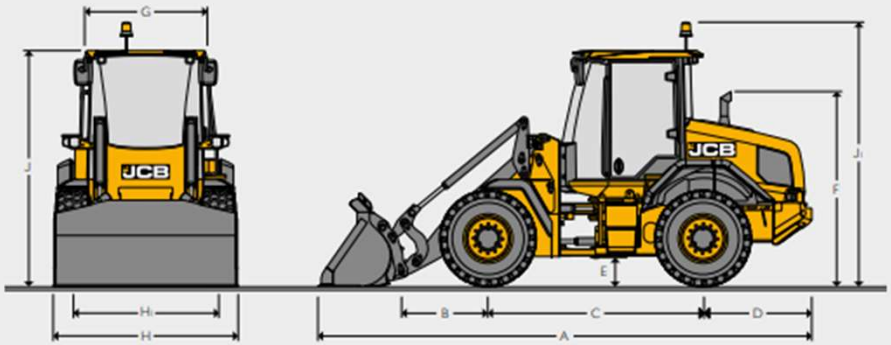
A	Fuel filler point	C	Transmission oil filler point
B	Hydraulic oil level sight glass	D	Transmission oil level sight glass

DEF FILL



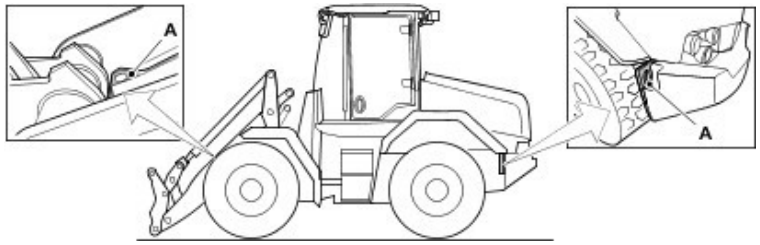
A	Engine coolant expansion tank	C	Auxiliary coolant pump
B	DEF tank filler point	D	Window washer bottle

STATIC DIMENSIONS



STATIC			411	413S		417
			HT	HT	HT HL	HT
A	Overall length	mm	6,229	6,524	6,718	6,290
B	Axle to pivot pin	mm	1,226	1,215	1,409	1,110
C	Wheel base	mm	2,750	2,750	2,750	2,800
D	Axle to counterweight face	mm	1,365	1,365	1,365	1,365
E	Minimum ground clearance	mm	344	351	351	371
F	Height over exhaust	mm	2,575	2,582	2,582	2,603
G	Width over cab roof	mm	1,431	1,431	1,431	1,431
H	Maximum width over tyres	mm	2,204	2,347	2,347	2,328
J	Wheel track	mm	1,800	1,880	1,880	1,880
K	Height over cab roof and lowered beacon	mm	3,057	3,064	3,064	3,084
L	Height over raised beacon	mm	3,418	3,410	3,410	3,445

LIFTING POINTS



A	Sling Points

TIE DOWN POINTS

A	Front axle tie-down points (both sides)
B	Rear tie down points (both sides)
C	Angle = 30° to 45°
D	Angle = 5° to 15° (D is the angle between the trailer / lorry loading plane and the chain (rear).
E	Restraints
F	Front top angle projection. Angle = 30° to 55°
G	Front chain angle. Angle = 0° to 20° (G is the angle between the trailer / lorry loading plane and the chain (front).

