



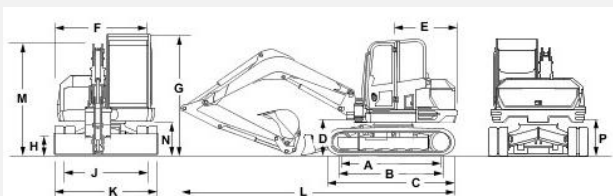
# 85Z-I, 86C-I

## QUICK REFERENCE GUIDE

This Quick Reference Guide DOES NOT replace the Operators Manual. You MUST read ALL the disclaimers and safety and other instructions in 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.

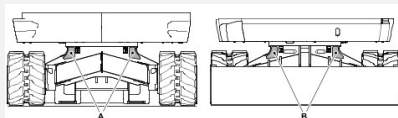
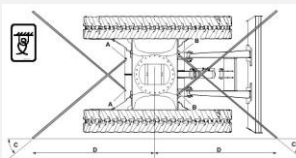
### Static Dimensions

Machine model		85z	86c
A	Sprocket idler centers	ft-in 7-8	7-8
B	Track length on ground	ft-in 7-8	7-8
C	Undercarriage overall length - rubber	ft-in 9-8	9-8
	Undercarriage overall length - steel	ft-in 9-6	9-6
D	Kingpost clearance	ft-in 2-7	2-7
E	Tailswing radius	ft-in 3-9	4-11
F	Overall width of superstructure	ft-in 7-1	7-2
G	Height over cab	ft-in 8-11	8-11
H	Ground clearance	ft-in 1-2	1-2
J	Track gauge	ft-in 6-1	6-1
K	Width over tracks (450 shoes)	ft-in 7-7	7-7
L	Transport length with standard dipper	ft-in 19-2	21-1
M	Transport height with standard dipper	ft-in 8-11	8-11
N	Track height	ft-in 2-2	2-2
P	Counterweight Clearance	ft-in 2-6	2-6
	Operating Weight	lbs 18,298	18,960

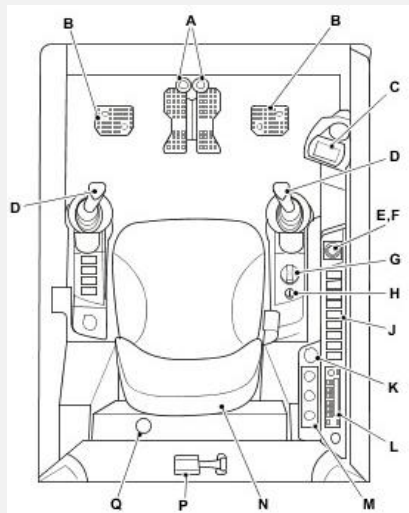


### Tie Down Points

- A. Rear Track Tie-Down
- B. Front Track Tie-Down
- C. Angle = 40 ± 5°
- D. Length = 7' ± 0'4"



### Cab and Switch Panel



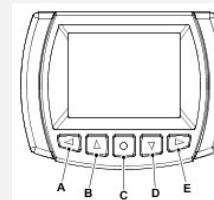
- A. Track controls
- B. Swing control pedal
- C. Instrument panel
- D. Excavator controls
- E. Dozer blade control lever
- F. Two-speed tracking switch
- G. Hand throttle control
- H. Ignition key switch
- J. Switch console
- K. Auxiliary power socket
- L. Entertainment system
- M. HVAC controls
- N. Operator seat
- P. Glass hammer
- Q. Fire extinguisher (option)
- R. TAB (triple articulated boom) pedal

### Instrument Panel

- A. Fuel Gauge
- B. Engine speed
- C. Two speed status warning
- D. Lift over load status
- E. Seat belt status
- F. Service due warning
- G. Clock
- H. Hydraulic oil temperature
- J. Coolant temperature warning
- K. Dozer float status
- L. SAE/AUX status warning
- M. Auto idle status
- N. Engine power mode status
- P. Hydraulic active status



### Instrument Panel



- A. Left
- B. Up
- C. Select
- D. Down
- E. Right

### Drive Controls

#### Hand Throttle Control

- A. Hand throttle control
- + Increase the engine speed
- Decrease the engine speed



### Start Up Sequence

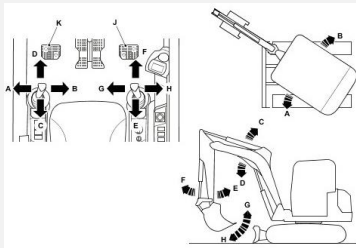
- 1 Insert Isolator Key**  
Insert isolator key (A) and turn in a clockwise direction.
- 2 Raise LH Arm Rest**  
Ensure the hydraulic isolation lever (left hand arm rest) is in the raised position.
- 3 Engage Seat Belt**  
Engage seat belt (A) into latch (B) before starting machine.
- 4 Engine Pre Heat**  
Turn ignition to position 1 (A) to pre-heat engine before start. Wait until pre-heat symbol (B) on instrument panel goes off.
- 5 Disarm Immobiliser**  
If fitted disarm by entering 4-digit PIN code then push ENT button. The LED will come on for 3 seconds.
- 6 Start Machine**  
From ignition position 1 turn ignition to position 3 (A) to start the machine.
- 7 Lower LH Arm Rest**  
Lower the LH arm rest to activate the hydraulics. Note: If 2 GO enabled go to step 8, if not go to step 9.
- 8 Press 2 GO Button**  
If enabled press 2 GO button (A) to activate hydraulics. Instrument panel will illuminate (B) when active.
- 9 Operate Machine**  
All controls are now active and the machine is now ready to use.



## Excavator controls

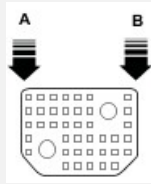
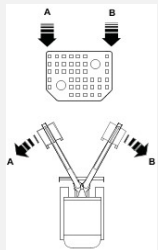
### Excavator Levers (SAE)

- A. Slew cab left
- B. Slew cab right
- C. Raise boom
- D. Lower boom
- E. Dipper in
- F. Dipper out
- G. Crowd bucket
- H. Dump bucket
- J. Swing boom
- K. TAB (triple articulated boom)



### Swing Pedal

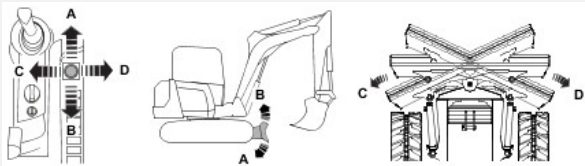
### Tab Pedal



- A. TAB boom in
- B. TAB boom out

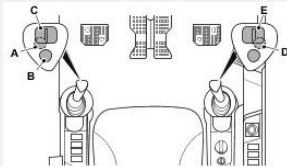
- A. Swing left
- B. Swing right

### Dozer Blade Controls



- A. Lower the dozer
- B. Raise the dozer
- C. Angle the dozer (pulling left side in)
- D. Angle the dozer (pulling right side in)

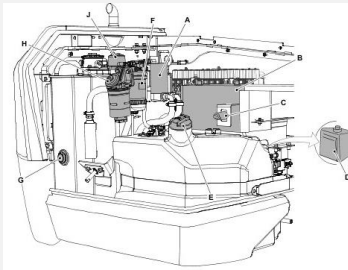
### Auxiliary Circuit Controls



- A. Tilt/grab changeover for tilt-rotator
- B. Left thumb button – enables auxiliary circuit
- C. Left electro-proportional switch for aux 2 (low flow)
- D. Right finger button – hammer
- E. Right electro-proportional switch for aux 1 (high flow)

## Service Points

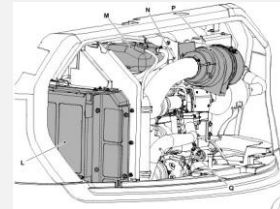
### Hydraulic Compartment



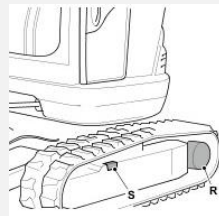
- A. Refueling pump
- B. Battery
- C. Battery isolator
- D. Washer tank
- E. Fuel filler cap
- F. Main Fuel filter
- G. Hydraulic oil level indicator
- H. Engine fuel filter
- J. Hydraulic oil filler cap

### Engine Compartment

- L. Radiator
- M. Radiator expansion tank
- N. Engine oil filler cap
- P. Air filter
- Q. Engine oil dipstick



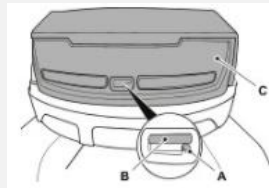
### Cab and Exterior



- R. Track gearbox
- S. Track tensioner

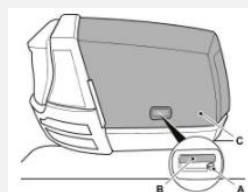
## Access Covers

### Engine Compartment Cover



- A. Lock
- B. Handle
- C. Engine compartment cover

### Hydraulic Compartment Cover



- A. Lock
- B. Handle
- C. Hydraulic compartment cover

## Hydraulic Hitch Unlock Sequence

### 1 Start Unlock Process

To start quick hitch unlock process ensure hydraulics are live then press quick hitch sequence button (A).



### 2 Confirm Process

Instrument panel will indicate need to confirm process (A). To confirm process press 2 GO button (B).



### 3 Boom LED Indicator

When the sequence is confirmed the LED on the boom will flash red (A).



### 4 Remove Attachment

To disengage the pivot pin, crowd attachment for 3 seconds then remove attachment.



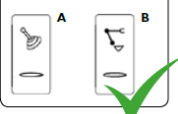
### 5 Change Attachment

Operate the machine to engage the jaw (A) with the attachment (B) and then full crowd the attachment to align latch.

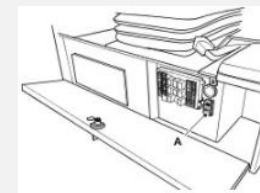


### 6 Lock Quick Hitch

To engage the lock on the quick hitch press one of the following two buttons and visually check hitch is locked.



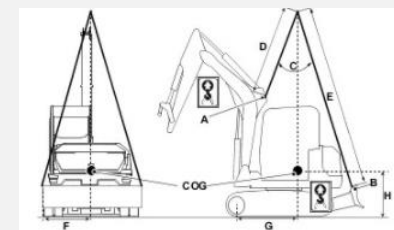
## ISO/SAE



- A. SAE Switch

## Lifting Points

- A. Boom Lift Point
- B. Dozer Lift Point



\*COG = Center of Gravity

Item	85Z-1	86C-1 (Monoboom)	86C-1 (TAB Boom)
C		30°	25°
D	9'	7'6"	7'5"
E	17'6"	17'4"	17'7"
F	37"		37"
G	3'3"		3'11"
H	3'	4'9"	3'10"