

# QUICK OPERATION GUIDE

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## CRAWLER CRANE

# CC1485S-1

Serial No. 7048 and up

### WARNING

- This operation guide explains basic operation of the machine. Before starting work, always conduct checks written in “OPERATION 3.1 PRE-OPERATION INSPECTION” in the separate “OPERATION MANUAL”.  
For safety cautions and detailed operation of the machine not explained in this book, please read and understand the separate “OPERATION MANUAL” before operating this machine.
- This operation guide does not replace the operation manual. This is just a short helpful information paper to assist the trained crane operator with the basic operation of the crane. For complete and detailed information we refer to the operation manual of the crane.

# M A E D A



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## FOR SAFE USE OF THE MACHINE

This manual classifies the risks into the following three categories for easy understanding of the safety information.



This denotes that there is an imminent hazard which will cause serious injury or death.

It also provides information on how to avoid such hazard.



This denotes that there is a hazard which can cause serious injury or death.

It also provides information on how to avoid such hazard.



This denotes that there is a potential hazard which may cause minor or moderate injury or serious damage to the machine.

It also provides information on how to avoid such hazard.

This manual also uses the following indications to provide other precautions for handling the machine and helpful information.



This denotes that failure to properly handle the machine may damage it or shorten its life.



This denotes helpful information.

# 1. STARTING ENGINE & STOPPING ENGINE

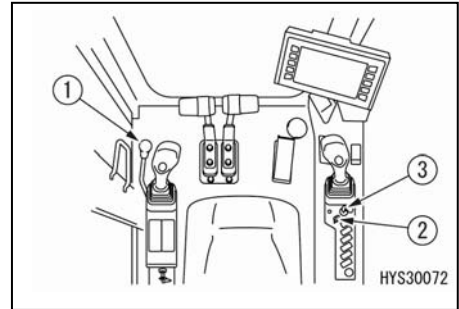
## 1.1 STARTING ENGINE

### ⚠ WARNING

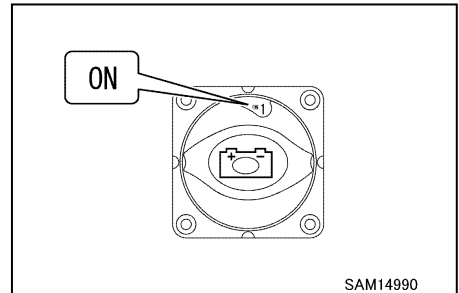
- Start the engine only when the operator is sitting on the operator's seat.
- Do not start the engine by short-circuiting the starter circuit. Doing so may cause serious physical injury or fire.
- Before starting the engine, make sure no personnel or impediments are close to the machine and honk the horn.
- Exhaust gas is toxic. When starting the engine in a narrow, enclosed place, pay due attention to ventilation.

### CAUTION

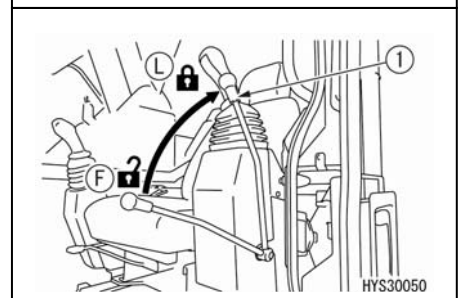
- If it is difficult to start the engine because the temperature is low, perform the cold climate engine starting operation.
- Do not start the engine by turning the fuel adjustment dial to near the full rotation position (MAX). Engine parts may be damaged.
- Do not keep the starter turned for more than 20 seconds. Doing so will accelerate the battery discharge.  
If the engine fails to start, wait for 2 minute before retrying.



1. Confirm that the disconnect switch in the battery box is turned to ON position.  
If it is turned OFF, engine does not start.

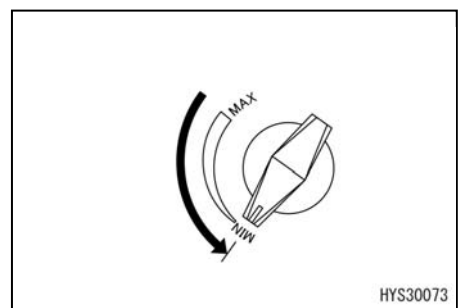


2. Check that the lock lever (1) is in the lock position (L). The engine does not start if the lock lever (1) is in the free position (F).

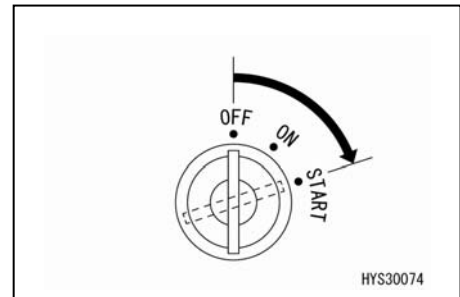


### NORMAL ENGINE START

1. Turn the fuel adjustment dial (2) to the low idling position (MIN).



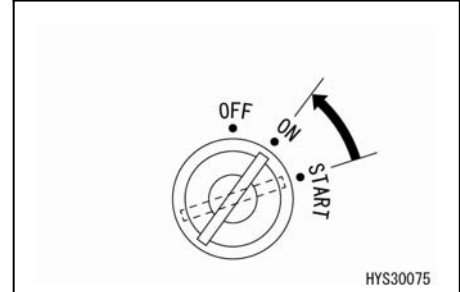
2. Insert the key into the starter switch (3) and turn the key to the "START" position. The engine starts.



3. When the engine has started, release your hand from the key.

The key automatically returns to the "ON" position.

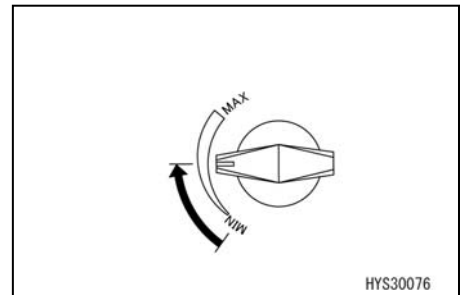
4. Continue the idling operation for 15 seconds immediately after engine start. Do not operate the operation levers and fuel adjustment dial during this period.



### ENGINE START IN COLD CLIMATE

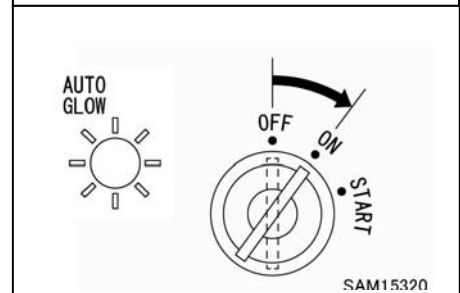
1. Check, before starting the engine that the fuel adjustment dial (2) is in the low idling position (MIN).

2. Turn the fuel adjustment dial (2) to position between the low idling position (MIN) and full rotation position (MAX).

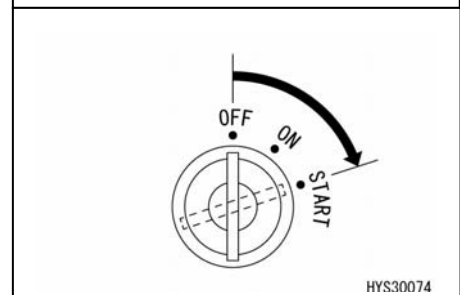


3. Insert the key into the starter switch (3), turn the key to the "ON" position and check that the auto glow lamp turns on.

When preheating is completed, the auto glow lamp goes on.



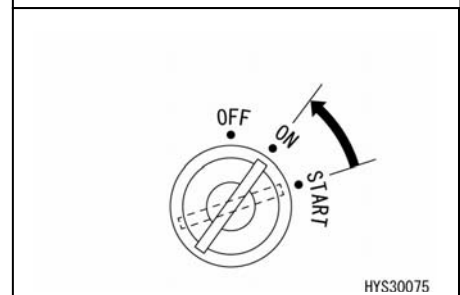
4. When the auto glow lamp goes out, turn the starter switch key to the "START" position. The engine starts.



5. When the engine has started, release your hand from the key.

The key automatically returns to the "ON" position.

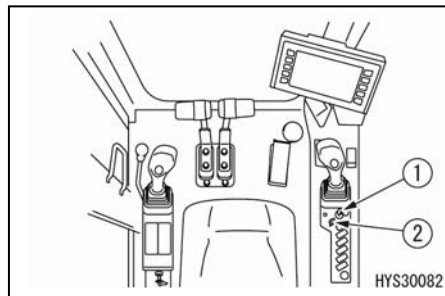
6. Continue the idling operation for 15 seconds immediately after engine start. Do not operate the operation levers and fuel adjustment dial during this period.



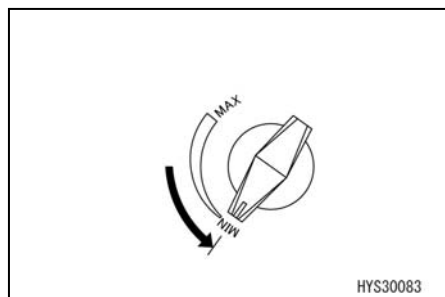
## 1.2 STOPPING ENGINE

### CAUTION

- Stopping the engine before it sufficiently cools down may shorten the life of engine units. Do not stop the engine suddenly except for an emergency.
- When the engine is overheated, do not stop the engine suddenly. Change the engine speed to low, and gradually cool down the engine before stopping.

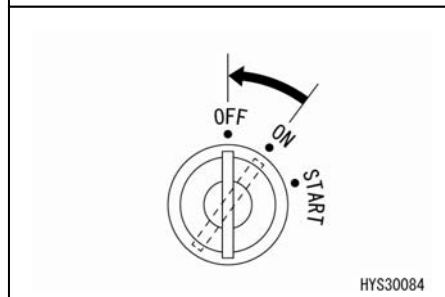


1. Turn the fuel adjustment dial (2) to the low idling position (MIN) and continue operation under no load for approximately 5 minutes.

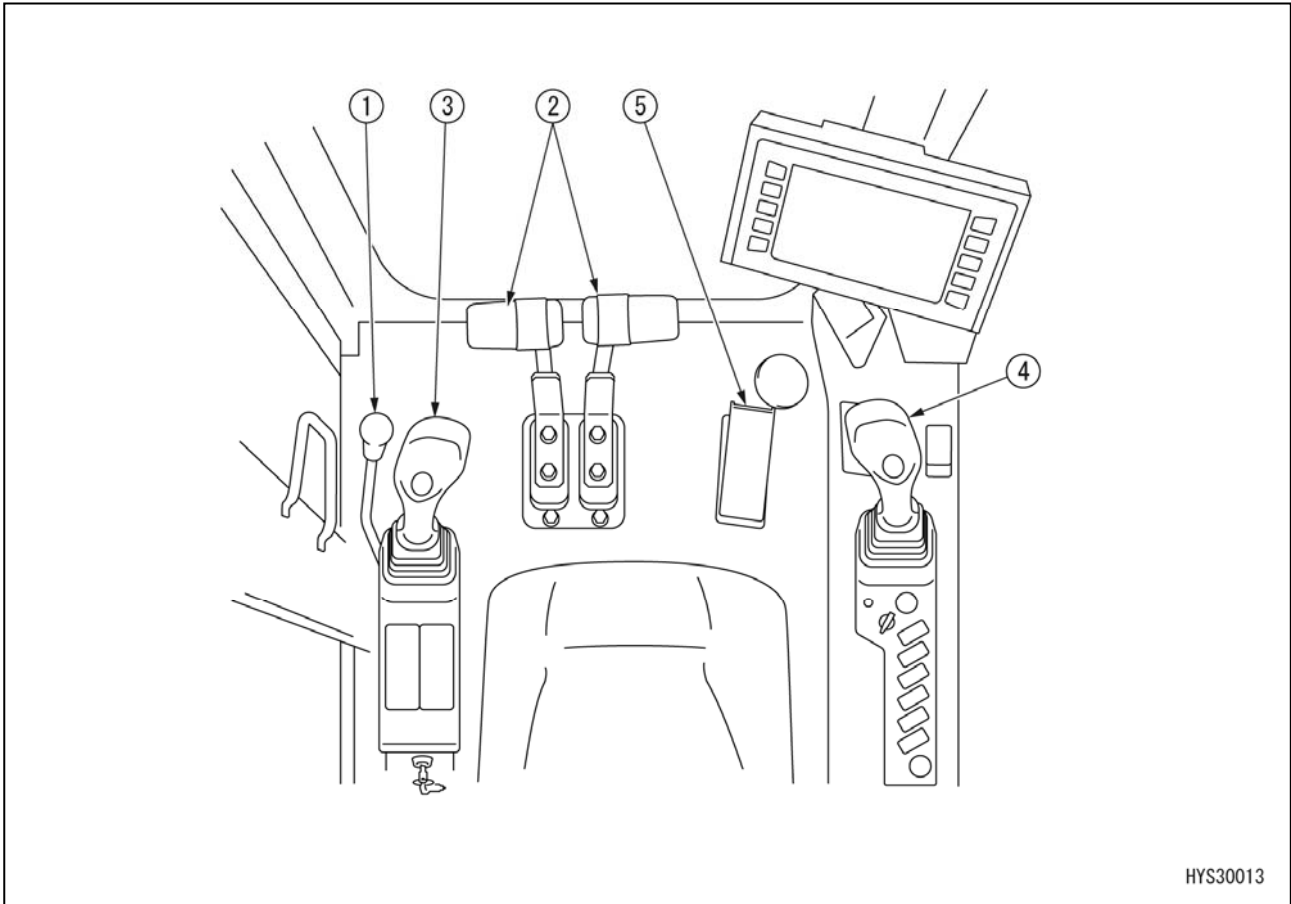


2. Turn the starter switch key (1) to the "OFF" position.  
The engine stops.

3. Remove the starter switch key (1).



## 2. OPERATION LEVERS



HYS30013

- |   |  |
|---|--|
| (1) Lock lever  | (4) Right work equipment operation lever<br>(with auto deceleration mechanism) |
| (2) Travel lever (with auto deceleration mechanism)                           | (5) Accelerator pedal  |
| (3) Left work equipment operation lever<br>(with auto deceleration mechanism) |  |

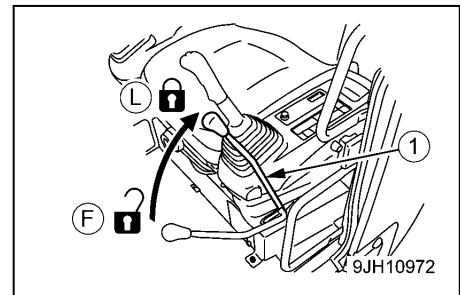
### [1] LOCK LEVER

#### **⚠ WARNING**

- When standing up from the driver seat, place the lock lever securely in the lock position (L). If the lock lever is in the free position (F) and contacts the operation levers and operation pedals carelessly, serious physical injury may be caused.
- When you leave the driver seat or work is suspended, check that the lock lever is securely in the lock position (L).
- When pulling up or pushing down the lock lever, be careful not to allow it to contact the operation lever of work equipment.

Use this lever to lock crane operation, slewing and travel operation.

- (L) Lock: Pull up the lever. The machine does not move even if each operation lever is operated.
- (F) Free: Push down the lever. The machine moves if each operation lever is operated.



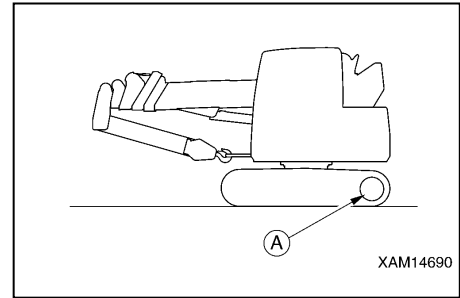
#### **NOTES**

Because the machine is hydraulically locked by the lock lever, operation levers move even if the lever is placed in the lock position. However, the machine does not move.

## [2] TRAVEL LEVER

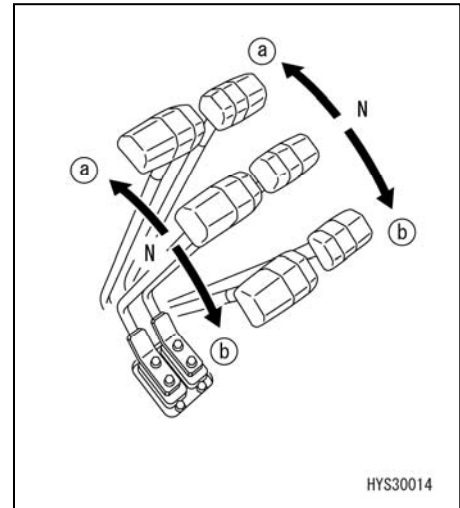
### WARNING

- When the sprocket (A) side is in the rear, the track frame faces forward. When the track frame faces rearward, the direction of travel lever operation is opposite to the direction of machine movement (forward and rearward movement, right and left movement direction).  
When operating the travel lever, be sure to check if the track frame faces forward or rearward.



Use this lever to move the machine forward/rearward, stop, change the direction, and adjust the travelling speed.

- (a) Forward movement: Push the lever forward.
- (b) Rearward movement: Pull the lever toward you.
- (N) Neutral: Release your hand from the lever.



### NOTES

When the travel lever is operated to the forward or rearward direction from neutral, the alarm sounds and notifies the surrounding area that the machine will start moving.

## [3] LEFT WORK EQUIPMENT OPERATION LEVER

Use this lever to perform slewing operation of the revolving super structure and extension and retraction operation of the boom.

Slewing operation

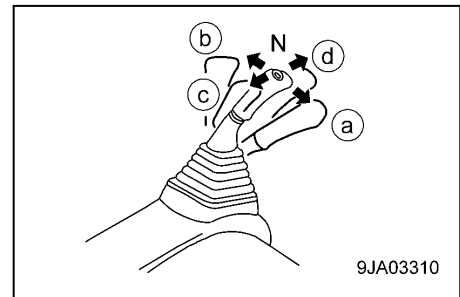
- (a) Right slewing: Pull the lever in the right direction.
- (b) Left slewing: Push the lever in the left direction.

Extension and retraction operation of boom

- (c) Retraction of boom: Pull the lever rearward.
- (d) Extension of boom: Push the lever forward.

(N) Neutral: Release your hand from the lever.

The revolving upper structure and boom length retain their positions as they stop.



## [4] RIGHT WORK EQUIPMENT OPERATION LEVER

Use this lever to perform winch operation and boom derricking operation.

Winch operation

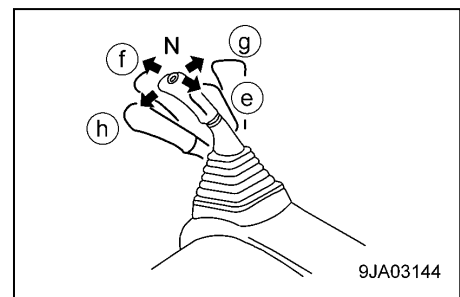
- (e) Hoisting: Pull the lever rearward.
- (f) Lowering: Push the lever forward.

Boom derricking operation

- (g) Lowering of boom: Push the lever in the right direction.
- (h) Raising of boom: Pull the lever in the left direction.

(N) Neutral: Release your hand from the lever.

The hook block and boom angle retain their positions as they stop.





## [5] ACCELERATOR PEDAL

### WARNING

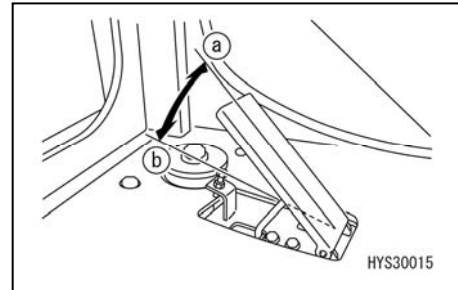
Use the accelerator pedal only when the machine stops and you operate the crane.

Never use this pedal during travel operation. An operation mistake may be made, resulting in serious physical injury.

Use the fuel adjustment dial to adjust engine speed during travel operation.

Use this lever to adjust the engine speed or output during crane operation.

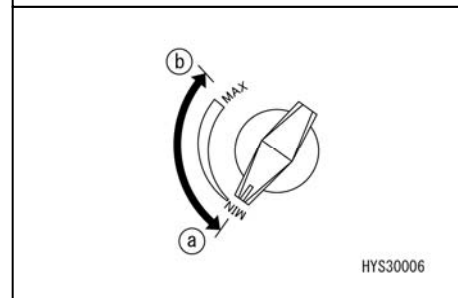
- (a) Low idling: Release your foot from the pedal.
- (b) Full revolution: Depress the pedal fully.



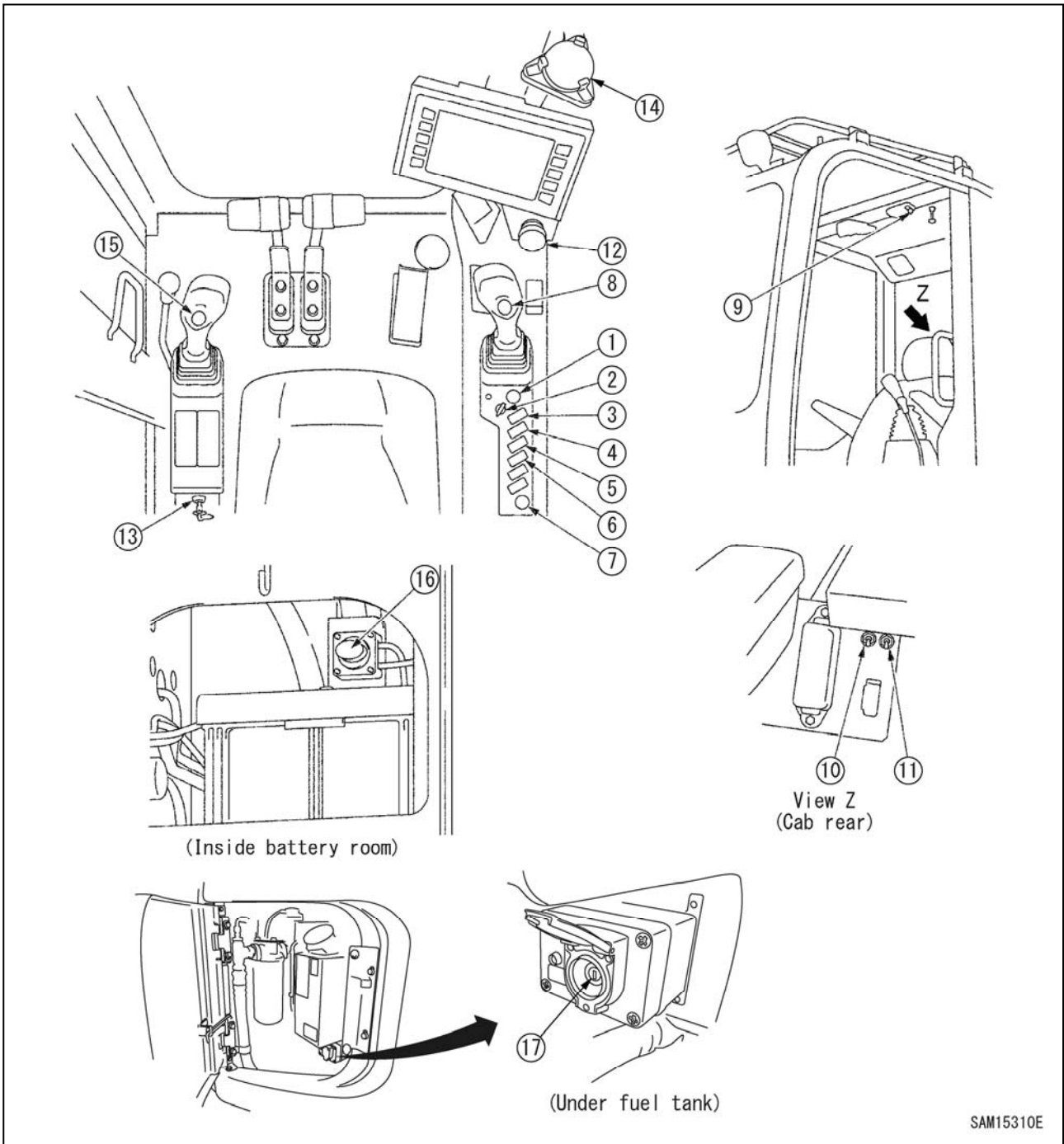
### NOTES

As a priority is given to the engine speed of the fuel adjustment dial, the engine speed does not fall below the set speed of the fuel adjustment dial even if you release your foot from the accelerator pedal.

When performing work using the accelerator pedal, operate the fuel adjustment dial in advance to set the necessary minimum engine speed.



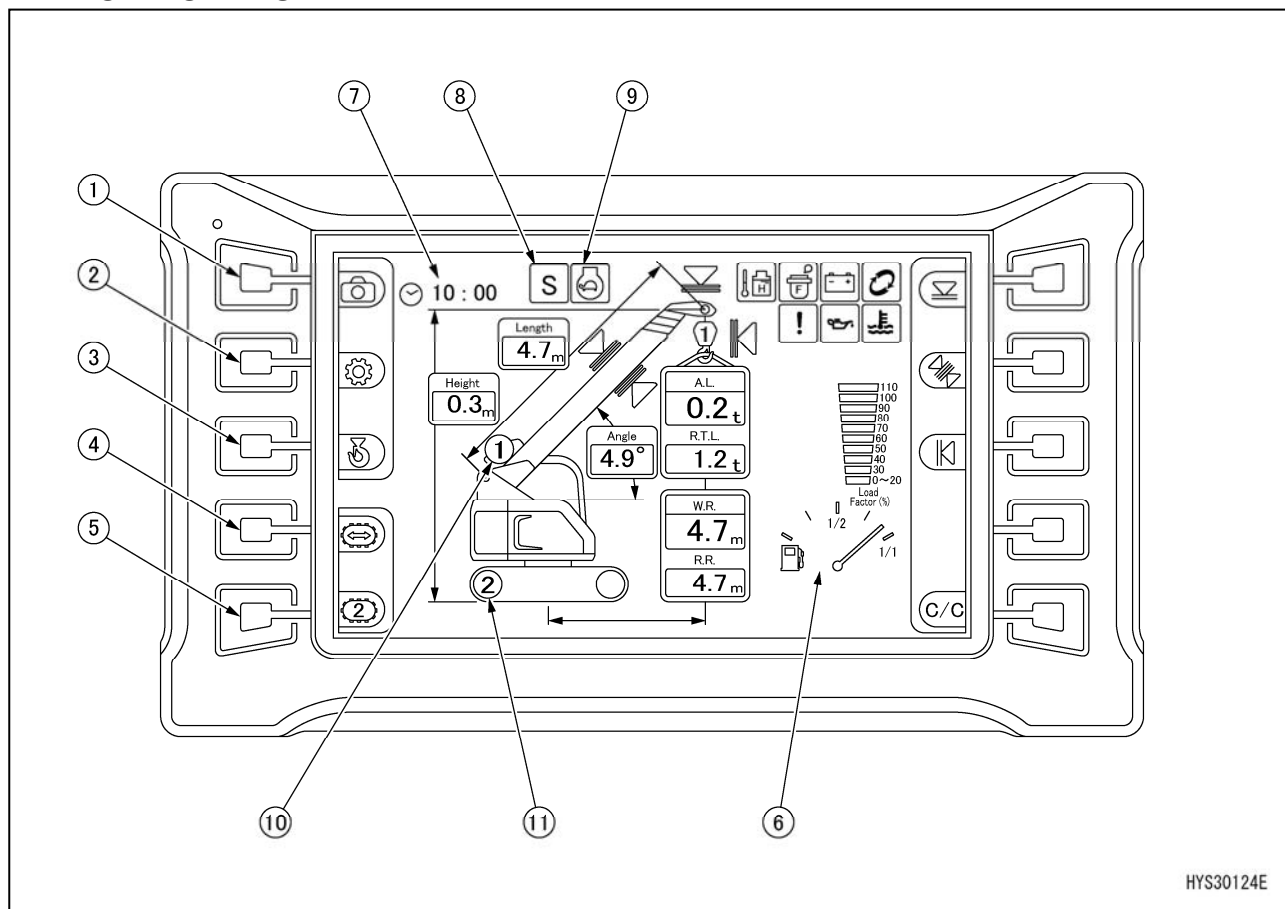
### 3. SWITCHES



- |                               |  |
|-------------------------------|--|
| (1) Starter switch            | (10) Emergency accelerator driving switch (with guard)             |
| (2) Fuel adjustment dial      | (11) Slewing parking brake emergency canceling switch (with guard) |
| (3) Lamp switch               | (12) Emergency stop switch   |
| (4) Front window wiper switch | (13) Maintenance switch  |
| (5) Roof window wiper switch  | (14) Levelling instrument  |
| (6) Buzzer canceling switch   | (15) Winch 2 speed selector switch                                 |
| (7) Accessory power supply    | (16) Disconnect switch   |
| (8) Horn switch               | (17) Override switch   |
| (9) Room lamp switch          |  |

## 4. MACHINE MONITOR

### 4.1 MONITOR DISPLAY



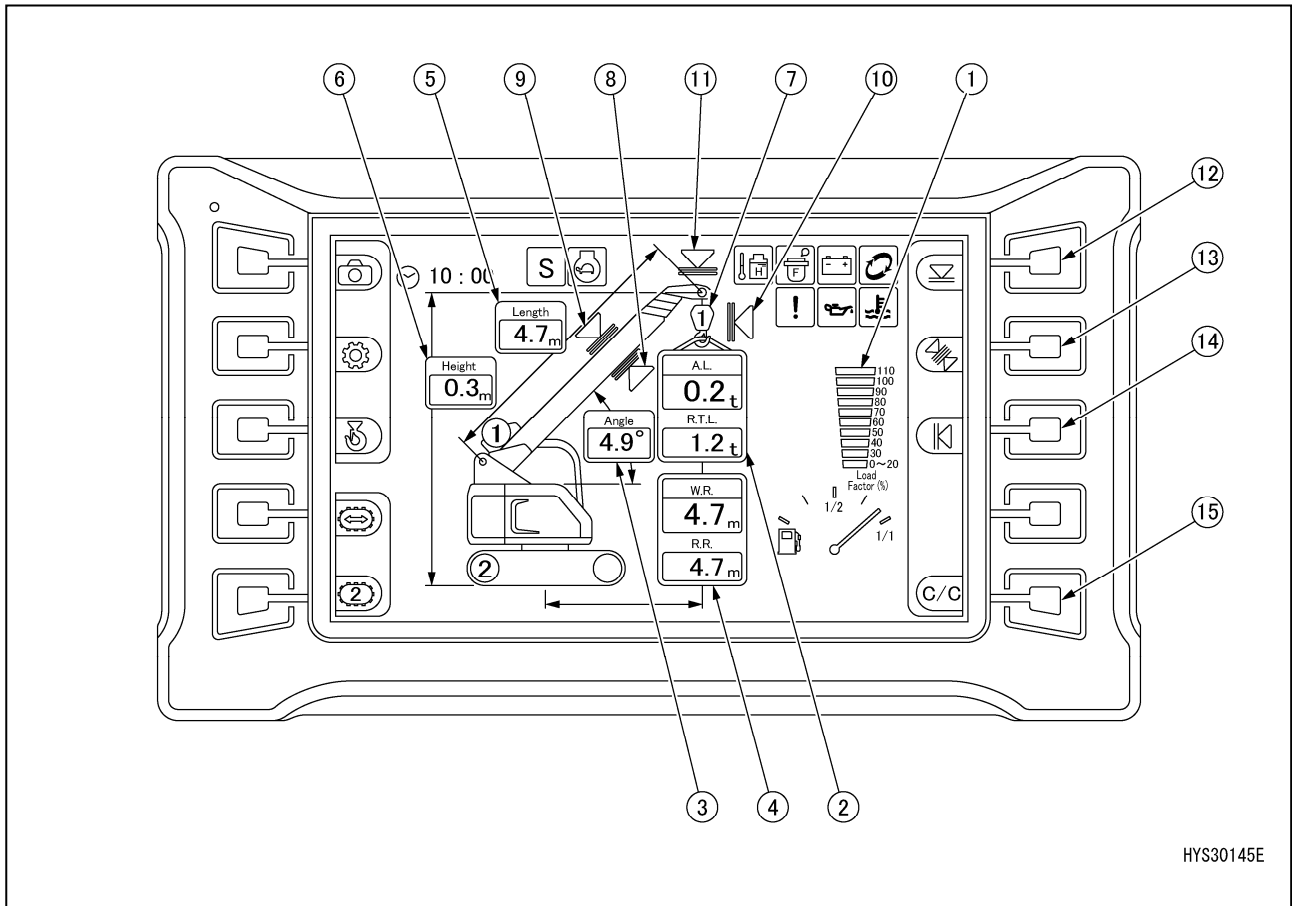
HYS30124E

- (1) Rear view camera selector switch
- (2) User mode switch
- (3) Hook storage switch
- (4) Travel mode selector switch
- (5) Travel 1st speed/2nd speed selector switch

- (6) Fuel gauge
- (7) Hour meter/clock
- (8) Working mode display
- (9) Auto deceleration display
- (10) Winch 1st speed/2nd speed display
- (11) Travel 1st speed/2nd speed display

See " 4.2 MONITOR DISPLAY OF MOMENT LIMITER " for the name of the moment limiter parts.

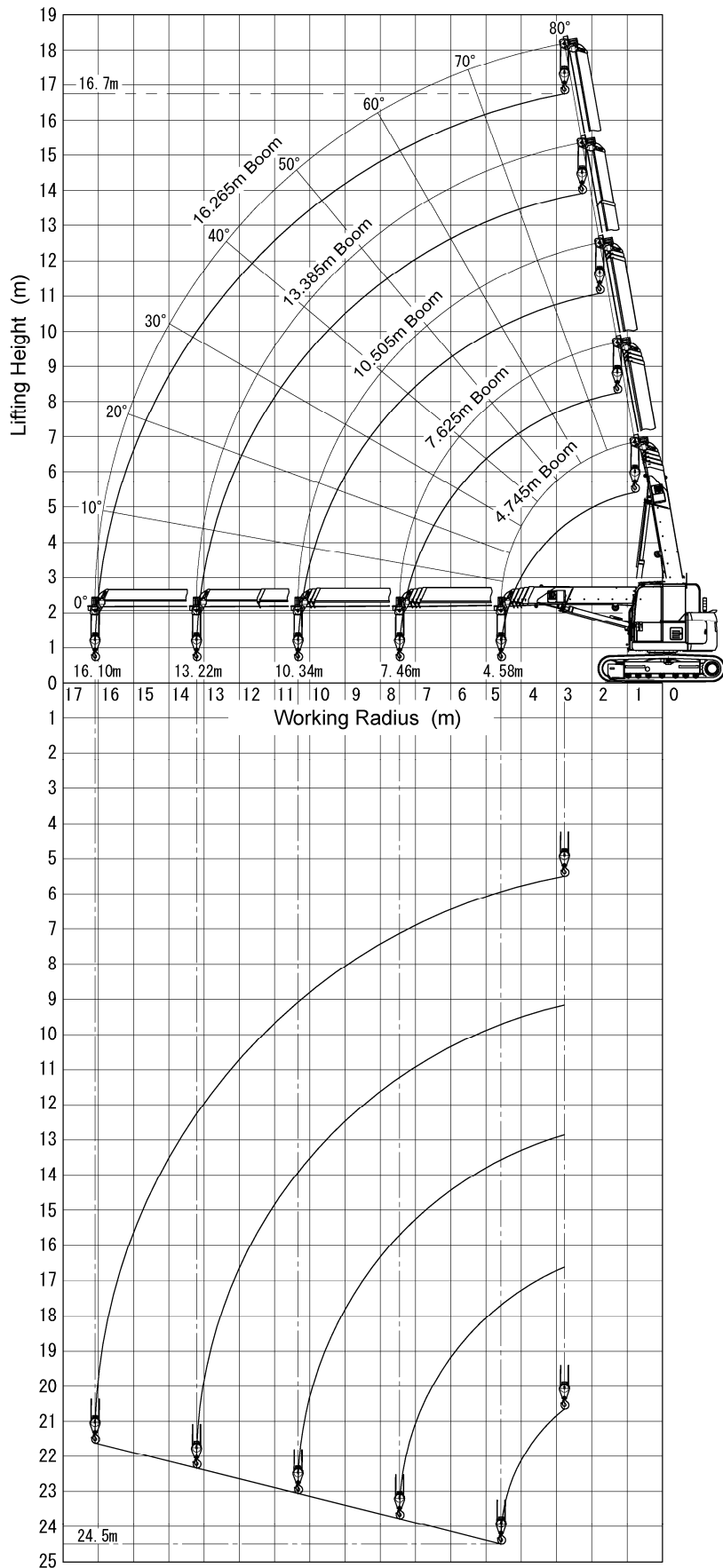
## 4.2 MONITOR DISPLAY OF MOMENT LIMITER



HYS30145E

- |  |  |
|--|--|
| (1) Load factor display                                  | (8) Boom angle lower limit display             |
| (2) Actual load display/Rated total load display         | (9) Boom angle upper limit display             |
| (3) Boom angle display                                   | (10) Working radius upper limit display        |
| (4) Actual work radius display/rated work radius display | (11) Lifting height upper limit display        |
| (5) Boom length display                                  | (12) Lifting height upper limit switch         |
| (6) Lifting height display                               | (13) Boom angle upper limit/lower limit switch |
| (7) Number of wire falls display                         | (14) Working radius upper limit switch         |
|  | (15) Setting check/canceling switch            |

# 5. WORKING RADIUS / LIFTING HEIGHT



HYS50002E

## 6. RATED TOTAL LOAD CHART 《 FOR 4-FALL WIRE ROPE 》

Unit: kg

Working radius (m)	4.745m Boom		7.625m Boom		10.505m Boom		13.385m Boom	16.265m Boom
	Stationary	Pick & Carry	Stationary	Pick & Carry	Stationary	Pick & Carry	Stationary	Stationary
2.00	6000	2000	6000	2000	3000	1500		
2.50	6000	2000	6000	2000	3000	1500	3000	
2.60	6000	2000	6000	2000	3000	1500	3000	
3.00	5250	2000	5260	2000	3000	1500	3000	2600
3.20	4910	2000	4920	2000	3000	1500	3000	2600
3.50	4450	2000	4460	2000	3000	1500	3000	2600
3.85	4000	2000	4000	2000	3000	1500	3000	2600
4.00	3830	1915	3820	1910	3000	1500	3000	2600
4.50	3320	1660	3310	1655	3000	1500	3000	2600
4.58	3250	1625	3240	1620	3000	1500	2940	2600
4.60			3220	1610	3000	1500	2920	2600
5.00			2880	1440	2710	1355	2640	2600
5.50			2520	1260	2400	1200	2340	2320
6.00			2210	1105	2140	1070	2100	2080
6.50			1950	975	1920	960	1890	1880
7.00			1720	860	1720	860	1710	1710
7.46			1530	765	1570	785	1570	1580
7.50					1550	775	1560	1560
8.00					1400	700	1430	1430
8.50					1270	635	1310	1320
9.00					1150	575	1200	1210
10.00					940	470	1020	1040
10.34					880	440	970	980
11.00							880	890
12.00							750	770
13.00							650	670
13.22							630	650
14.00								580
15.00								500
16.00								440
16.10								430
Boom angle range (deg)	0~64.3		0~74.4		0~78.8		0~80.0	0~80.0

★Hook mass: 90kg

★Boom length:

4.745m boom → Boom retracted minimum

7.625m boom → Boom length more than 4.745m less than 7.625m

10.505m boom → Boom length more than 7.625m less than 10.505m

13.385m boom → Boom length more than 10.505m less than 13.385m

16.265m boom → Boom length 13.385m or more

★The Rated total load Chart is based on the actual working radius including boom deflection.

★The weight of hook block must be included as part of the load shown in the Rated total load Chart.

## **QUICK OPERATION GUIDE for MAEDA CRAWLER CRANE CC1485S-1**

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