

# QUICK OPERATION GUIDE

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## CRAWLER CRANE

# MC815C

Serial No. T0001 and up

### **WARNING**

- This operation guide explains basic operation of the machine. Before starting work, always conduct checks written in “INSPECTION AND MAINTENANCE 9.1 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.

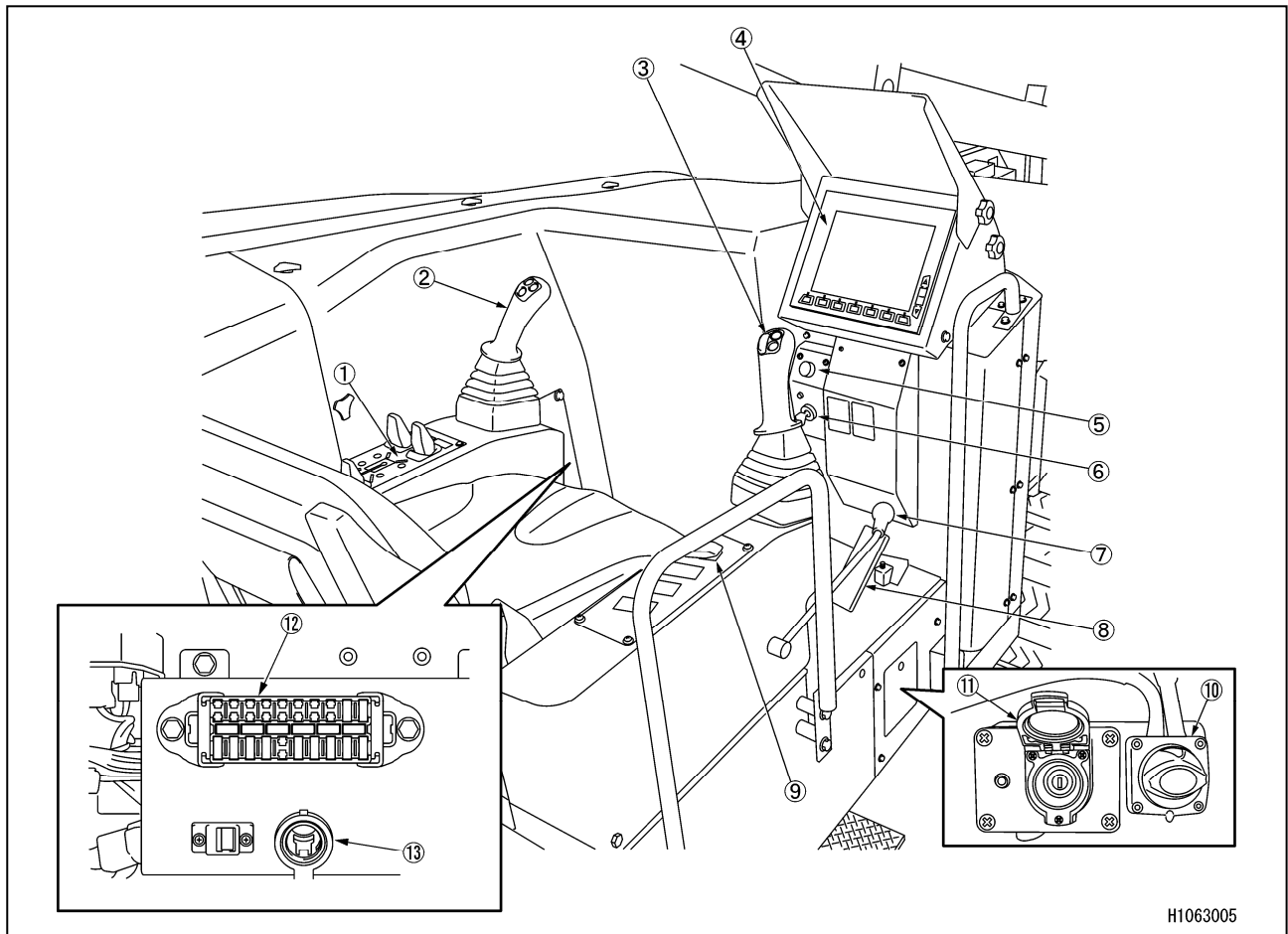


This denotes that failure to properly handle the machine may damage it or shorten its life.



This denotes helpful information.

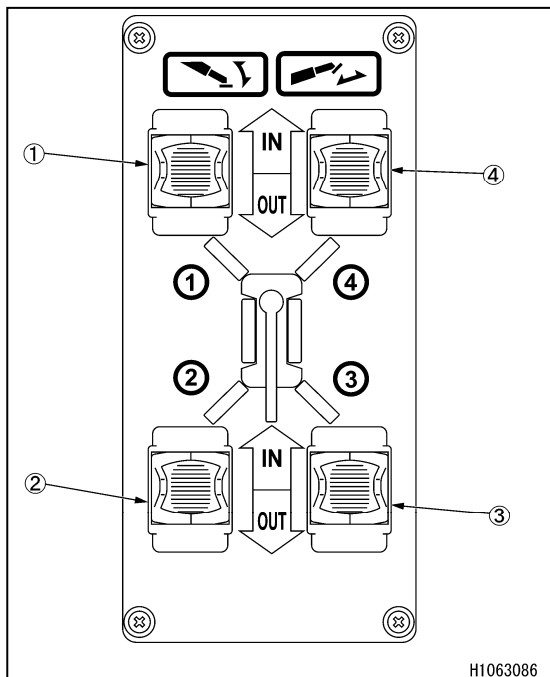
# 1. DESCRIPTION OF CONTROLS



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- |                               |                        |                      |
|-------------------------------|------------------------|----------------------|
| (1) Outrigger operation panel | (6) Starter switch     | (11) Override switch |
| (2) Left control lever        | (7) Lock lever         | (12) Fuse box        |
| (3) Right control lever       | (8) Accelerator pedal  | (13) Cigar socket    |
| (4) Monitor                   | (9) Light switch       |                      |
| (5) Emergency stop switch     | (10) Disconnect switch |                      |

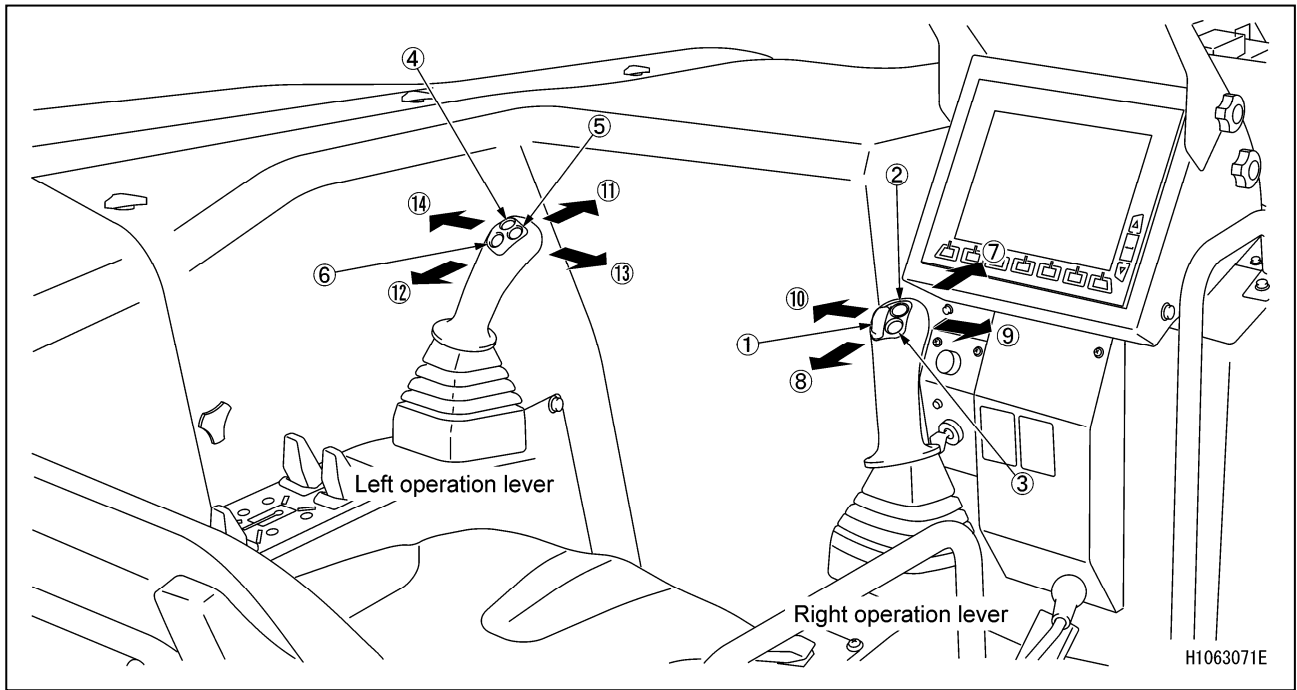
## 1.1 OUTRIGGER OPERATION PANEL



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- |                          |
|--------------------------|
| (1) Outrigger (1) switch |
| (2) Outrigger (2) switch |
| (3) Outrigger (3) switch |
| (4) Outrigger (4) switch |

## 1.2 CONTROL LEVERS



### [Traveling mode]

- (1) Accelerator up/down (pop-up up/down)
- (2) Horn
- (3) Pop-up Enter
- (4) Mode selector switch (Traveling Hi/Low)
- (5) Mode selector switch (Carry/Pick)
- (6) Mode selector switch (Traveling/Outrigger/ Crane)
- (7) Right traveling forward
- (8) Right traveling backward
- (9) -
- (10) -
- (11) Left traveling forward
- (12) Left traveling backward
- (13) -
- (14) -

### [Outrigger mode]

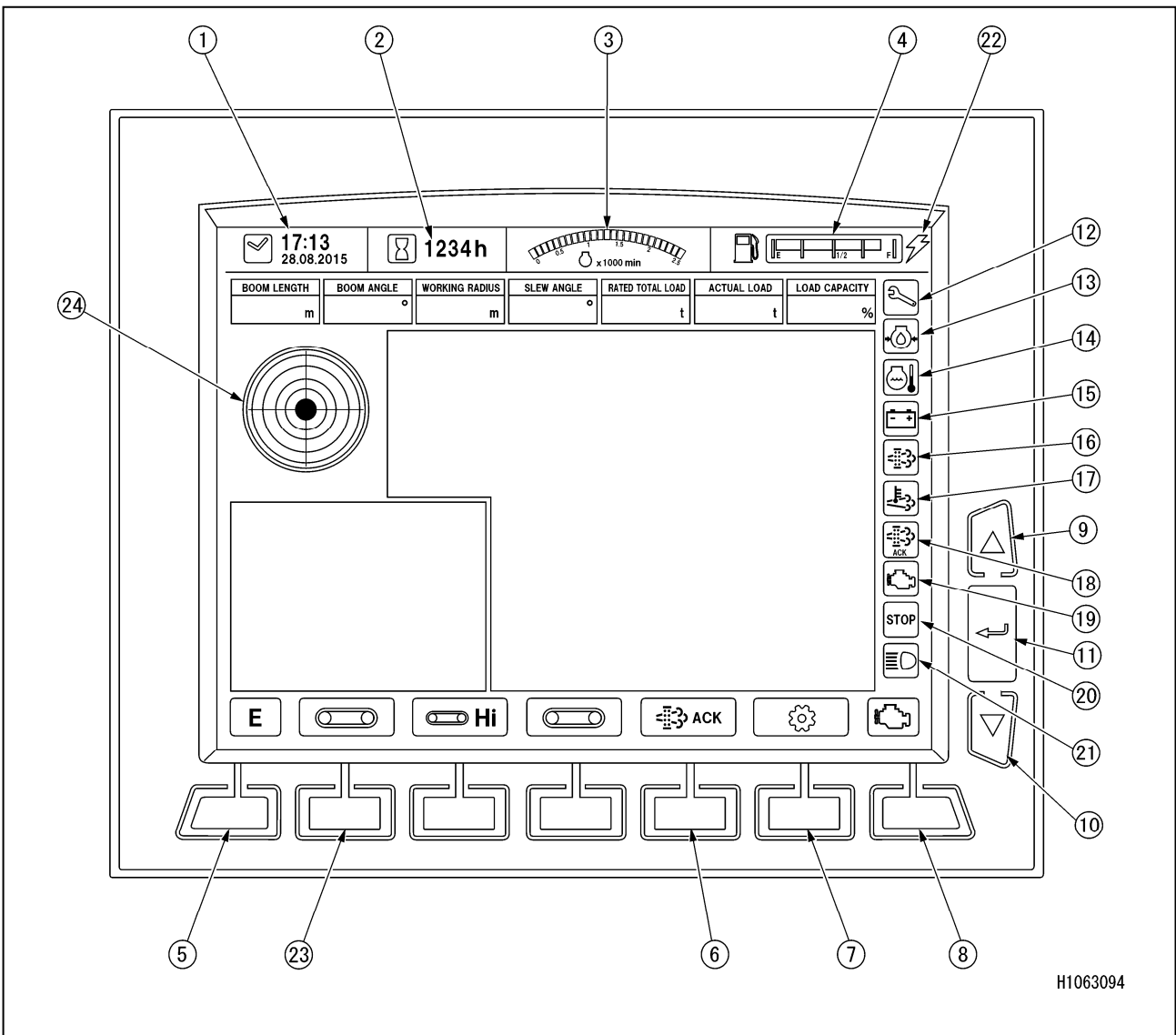
- (1) Accelerator up/down (pop-up up/down)
- (2) Horn
- (3) Pop-up Enter
- (4) Mode selector switch (Extension/Ground)
- (5) Mode selector switch (Manual/Auto)
- (6) Mode selector switch (Traveling/Outrigger/ Crane)
- (7) -
- (8) -
- (9) -
- (10) -
- (11) -
- (12) -
- (13) -
- (14) -

### [Crane mode]

- (1) Accelerator up/down (pop-up up/down)
- (2) Horn
- (3) Pop-up Enter
- (4) Mode selector switch (Crane Hi/Low)
- (5) Mode selector switch (Hook stowage/Fully automated stowage)
- (6) Mode selector switch (Traveling/Outrigger/ Crane)
- (7) Unwinding
- (8) Winding
- (9) Boom lowering
- (10) Boom raising
- (11) Boom extension
- (12) Boom retraction
- (13) Boom clockwise swing
- (14) Boom counter-clockwise swing

## 2. DESCRIPTION OF MONITOR

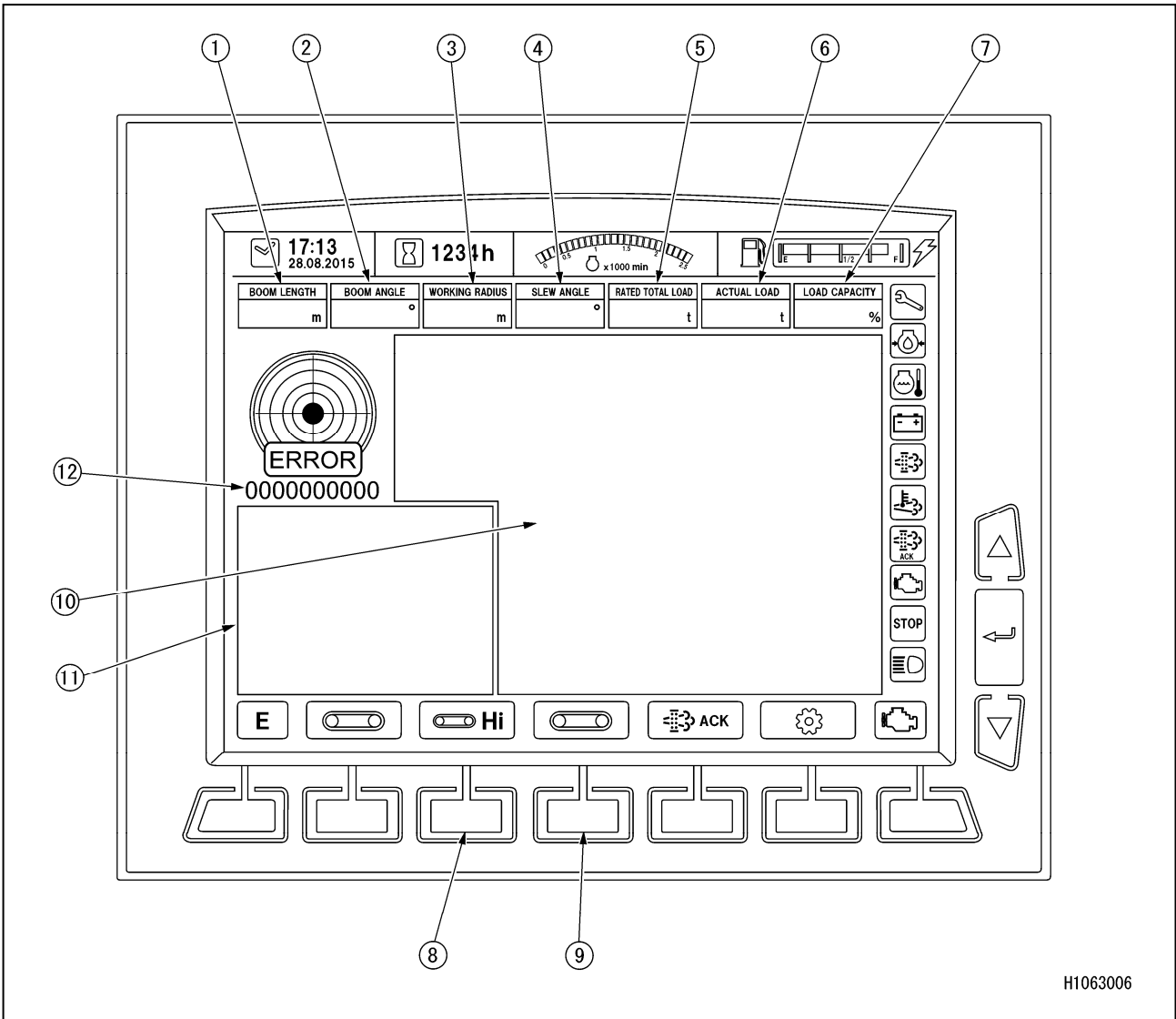
### [ MONITOR DISPLAY (COMMON TO ALL MODES) ]



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- |                                      |                                    |  |
|--------------------------------------|------------------------------------|--|
| (1) Date & Time display              | (9) Pop-up select switch (up)      | (17) Exhaust temperature alarm lamp                |
| (2) Hour meter                       | (10) Pop-up select switch (down)   | (18) DPF regeneration lamp                         |
| (3) Engine speed                     | (11) Enter switch                  | (19) Failure                                       |
| (4) Fuel gauge                       | (12) Replacement reminder          | (20) Emergency stop lamp                           |
| (5) Eco mode switch                  | (13) Engine oil pressure           | (21) Light   |
| (6) DPF regeneration switch          | (14) Engine coolant temperature    | (22) Electricity on lamp                           |
| (7) Setting switch                   | (15) Charge                        | (23) Mode selector switch (travel/outrigger/crane) |
| (8) Engine and electric motor switch | (16) DPF regeneration request lamp | (24) Leveling instrument                           |

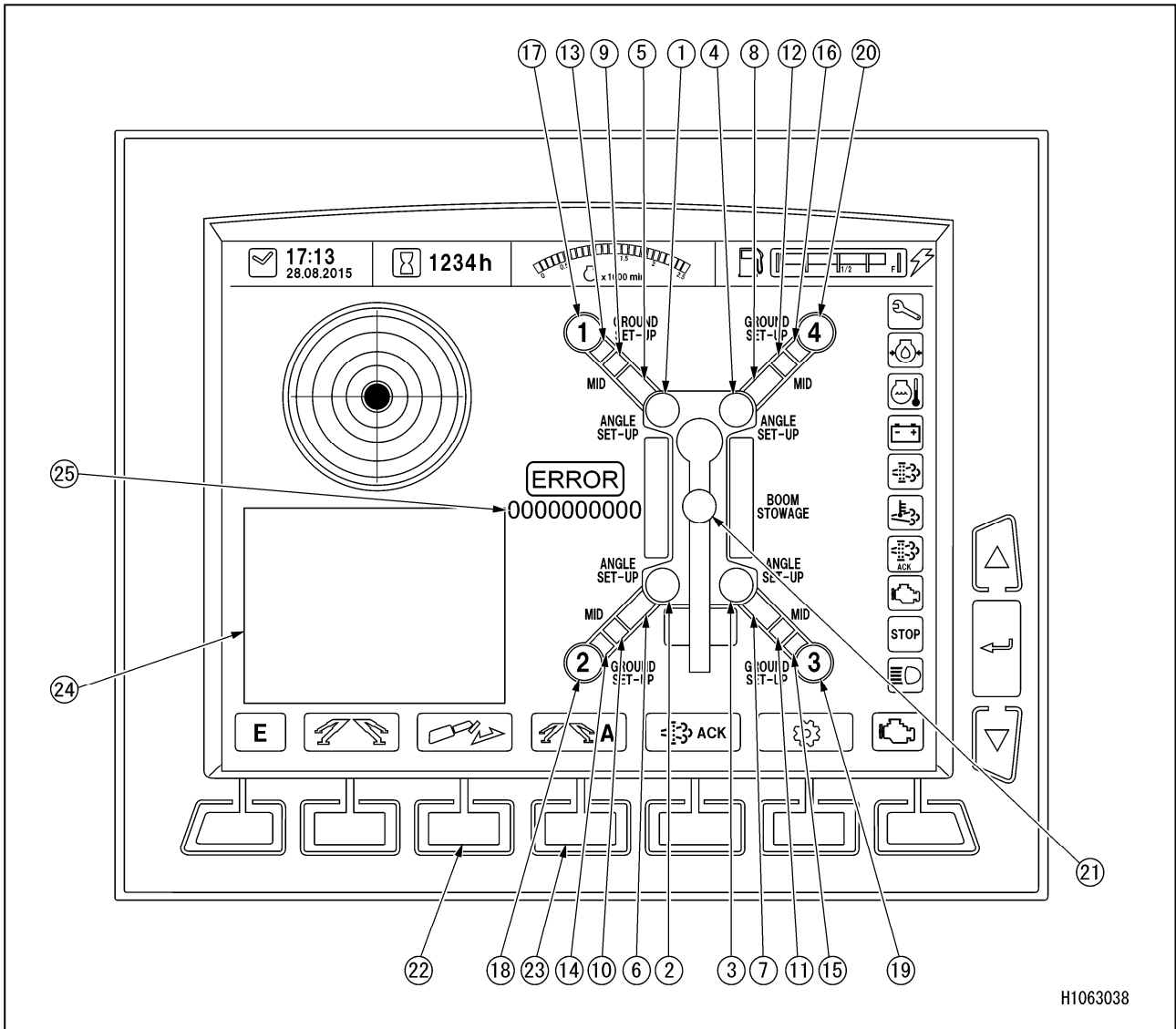
[ MONITOR DISPLAY (TRAVELING MODE) ]



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- |                      |   |                                    |
|----------------------|---|------------------------------------|
| (1) BOOM LENGTH      | (7) LOAD CAPACITY                               | (10) FRONT VIEW CAMERA MONITOR     |
| (2) BOOM ANGLE       | (8) MODE SELECTOR SWITCH (2) (Traveling Hi/Low) | (11) LEFT SIDE-VIEW CAMERA MONITOR |
| (3) WORKING RADIUS   | (9) MODE SELECTOR SWITCH (3) (Pick/Carry)       | (12) Error codes                   |
| (4) SLEW ANGLE       |   |                                    |
| (5) RATED TOTAL LOAD |   |                                    |
| (6) ACTUAL LOAD      |   |                                    |

[ MONITOR DISPLAY (OUTRIGGER MODE) ]

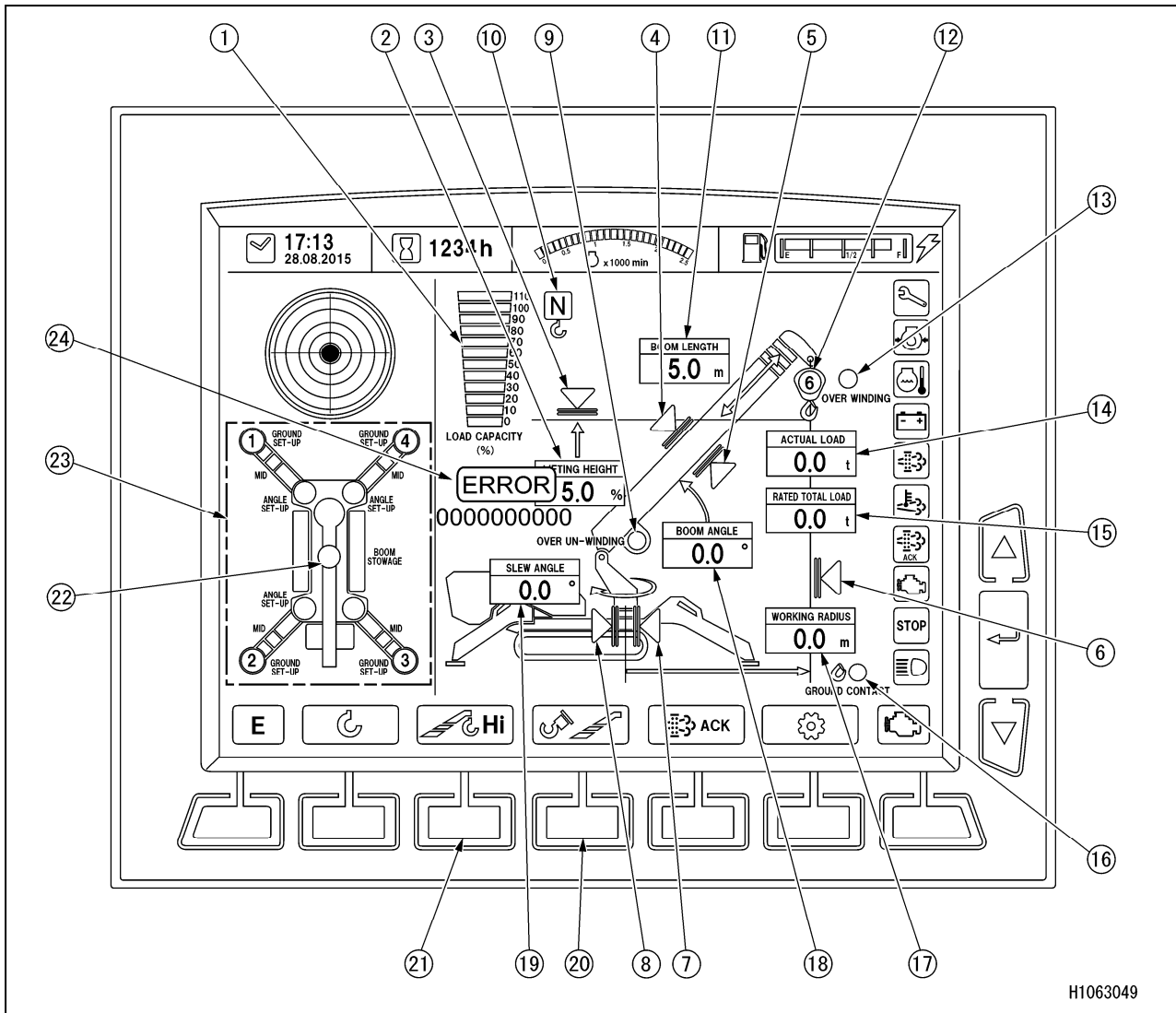


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- |  |                                    |  |
|--|------------------------------------|--|
| (1) Outrigger (1) Extension (ANGLE SET-UP) | (10) Outrigger (2) (MID)           | (21) Crane stow position                         |
| (2) Outrigger (2) Extension (ANGLE SET-UP) | (11) Outrigger (3) (MID)           | (22) Mode selector switch (2) (Extension/Ground) |
| (3) Outrigger (3) Extension (ANGLE SET-UP) | (12) Outrigger (4) (MID)           | (23) Mode selector switch (3) (Manual/Auto)      |
| (4) Outrigger (4) Extension (ANGLE SET-UP) | (13) Outrigger (1) (MAX)           | (24) Left side-view camera monitor               |
| (5) Outrigger (1) (MIN)                    | (14) Outrigger (2) (MAX)           | (25) Error codes                                 |
| (6) Outrigger (2) (MIN)                    | (15) Outrigger (3) (MAX)           |  |
| (7) Outrigger (3) (MIN)                    | (16) Outrigger (4) (MAX)           |  |
| (8) Outrigger (4) (MIN)                    | (17) Outrigger (1) (GROUND SET-UP) |  |
| (9) Outrigger (1) (MID)                    | (18) Outrigger (2) (GROUND SET-UP) |  |
|  | (19) Outrigger (3) (GROUND SET-UP) |  |
|  | (20) Outrigger (4) (GROUND SET-UP) |  |



## [ MONITOR DISPLAY (CRANE MODE) ]



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- |  |  |
|--|--|
| (1) Load capacity ratio indication                 | (14) Actual load indication (ACTUAL LOAD)                            |
| (2) Lifting height indication (LIFTING HEIGHT)     | (15) Rated total load indication (RATED TOTAL LOAD)                  |
| (3) Lifting height limiter switch                  | (16) Hook grounding indication (GROUND CONTACT)                      |
| (4) Boom angle upper limit switch                  | (17) Working radius indication (WORKING RADIUS)                      |
| (5) Boom angle lower limit switch                  | (18) Boom angle indication (BOOM ANGLE)                              |
| (6) Working radius limiter switch                  | (19) Slew angle indication   |
| (7) Clockwise swing angle limiter switch           | (20) Mode selector switch (3) (Hook stowage/Fully automated stowage) |
| (8) Counter-clockwise swing angle limiter switch   | (21) Mode selector switch (2) (Crane Hi/Low)                         |
| (9) Over un-winding indication (OVER UN-WINDING)   | (22) Crane stowage position  |
| (10) Hanging mode display (N mode, P mode, M mode) | (23) Outrigger related indication                                    |
| (11) Boom length indication (BOOM LENGTH)          | (24) Error code  |
| (12) Indication of the number of wires hung        |  |
| (13) Over-winding indication (OVER WINDING)        |  |

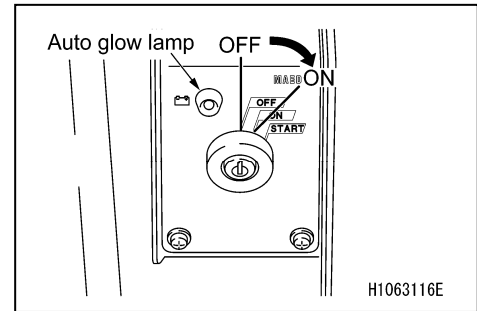
### 3. OPERATIONS

#### 3.1 STARTING / STOPPING ENGINE

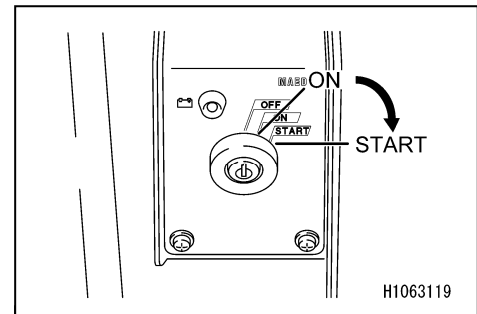
##### [ STARTING OF ENGINE ]

1. Insert the key into the starter switch, turn and hold the key in the "ON" position, and wait until the "WARM-UP MONITOR" indicator lamp goes out.

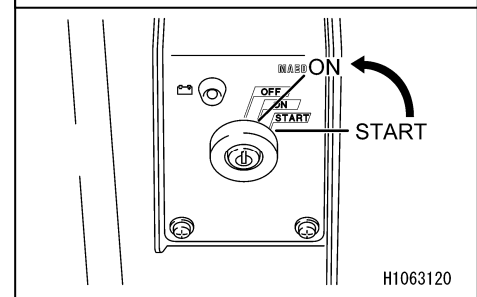
NOTES
When the starter switch key is turned to the "ON" position, the "WARM-UP MONITOR" indicator lamp lights up to indicate that the engine is being warmed up. When the engine has been warmed up, the "WARM-UP MONITOR" indicator lamp goes out.



2. When the "WARM-UP MONITOR" lamp goes out, turn the key to the "START" position.

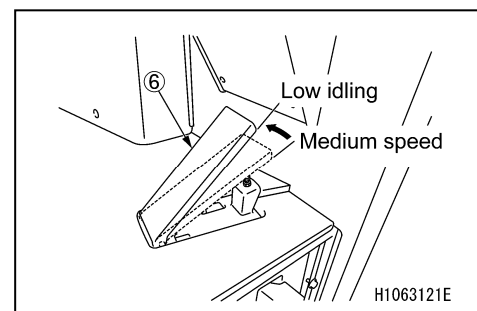


3. When the engine has started, release your hand from the key.  
The key automatically returns to the "ON" position.



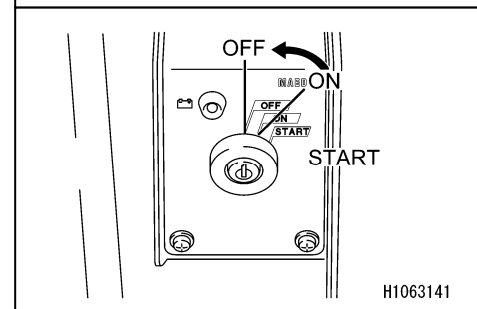
##### [ STOPPING ENGINE ]

1. Take your foot off the accelerator pedal (6), let the engine idle for about 5 minutes with no load applied.



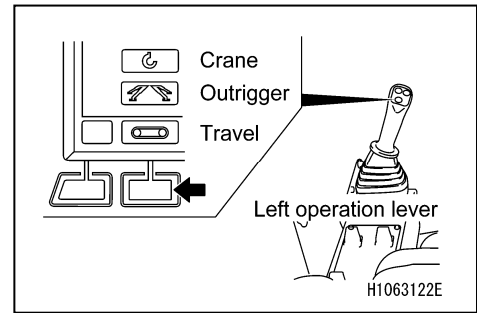
2. Turn the starter switch key to the "OFF" position.  
The engine stops.

3. Remove the starter switch key.



### 3.2 TRAVELLING OPERATION

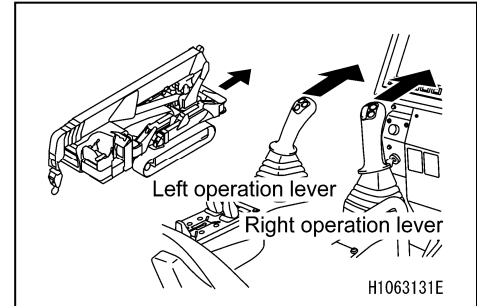
1. Slowly and surely shift the lock lever (1) into a free (F) position.
2. Change the mode to Travel with the mode selector switch (1) (Travel/Outrigger/Crane) on the monitor, or with the left control lever.



#### [ MOVING FORWARD ]

Operate the left and right control levers at the same time.

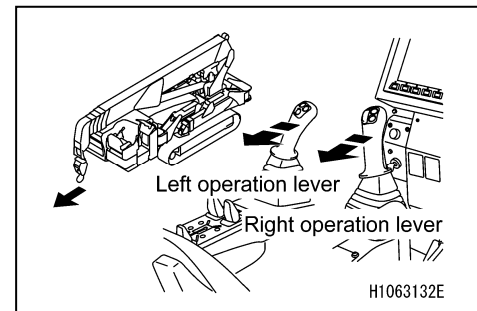
- Push the left and right control levers slowly forward to start moving forward.



#### [ MOVING BACKWARD ]

Operate the left and right control levers at the same time.

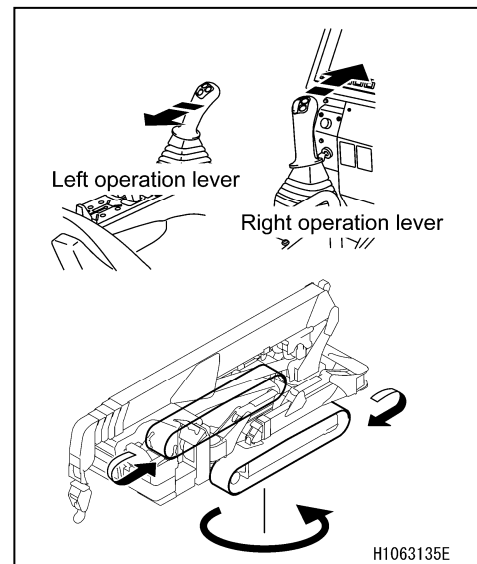
- Pull the left and right control levers toward you slowly to start moving backward.



#### [ LEFT TURN ]

Pushing the right control lever forward causes the machine to turn left in the forward direction.

Pulling the right control lever toward you causes the machine to turn left in the backward direction.



#### [ RIGHT TURN ]

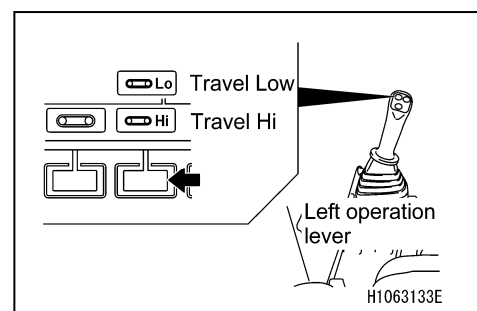
Pushing the left control lever forward causes the machine to turn right in the forward direction.

Pulling the left control lever toward you causes the machine to turn right in the backward direction.

#### [ CHANGING TRAVELING SPEED MODE ]

Change the traveling mode with the mode selector switch (2) (Traveling Hi/Low) on the monitor, or with the left control lever.

- Each touch of the mode selector switch (2) (Traveling Hi/Low) toggles the mode between “Traveling Hi” and “Traveling Low”, and the monitor indication changes accordingly.



### 3.3 OUTRIGGER OPERATION

#### [ OUTRIGGER SETTING OPERATION ]

#### TASKS TO BE PERFORMED BEFORE STARTING THE ENGINE

There are 4 outriggers installed on the machine.

The following explains the setting procedure for only one "OUTRIGGER (4)". Repeat the same procedure for the other three outriggers.

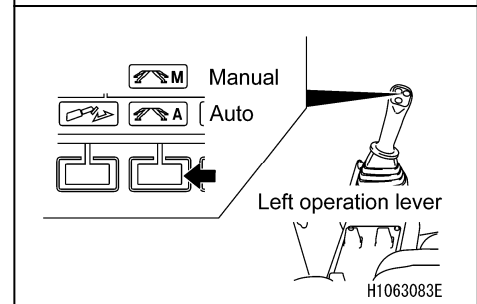
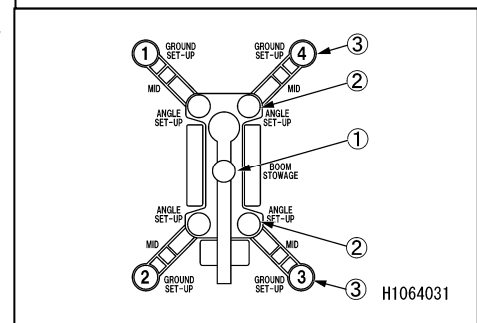
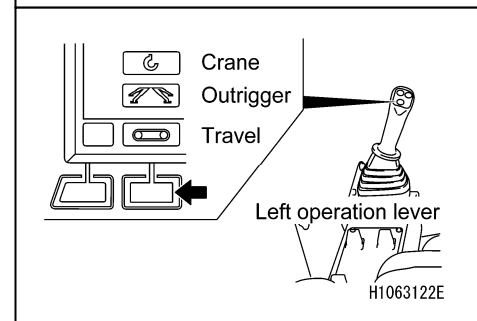
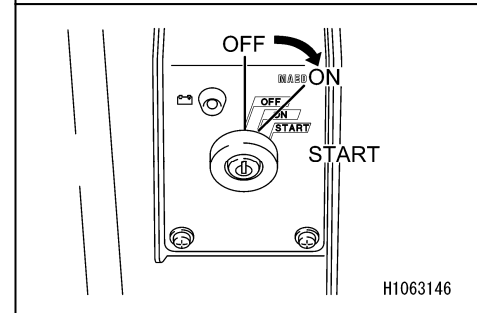
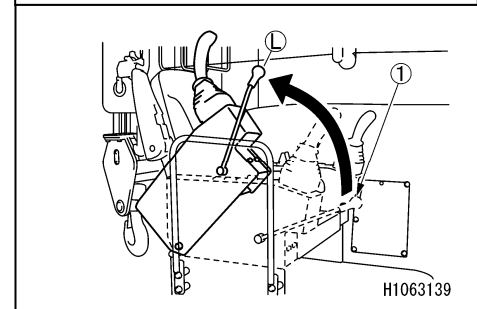
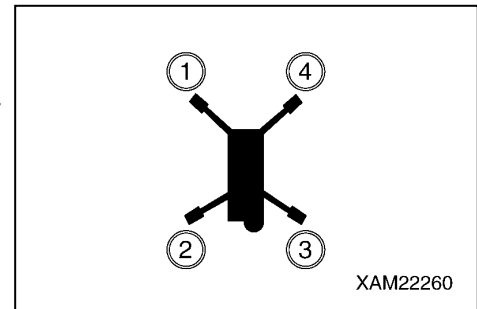
1. Shift the lock lever (1) into the lock (L) position.

2. Turn the starter switch to the "ON" position.

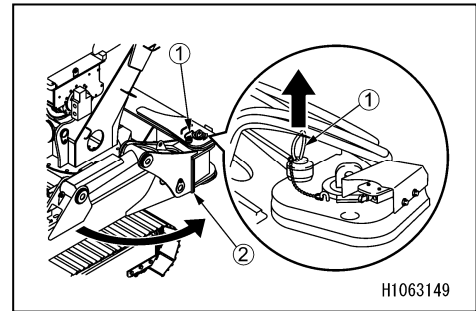
3. Change the mode to Outrigger mode with the mode selector switch (1) (Travel/Outrigger/Crane) on the monitor or the left control lever.

4. Make sure that the crane stowage (1) lamp on the monitor is lit in yellow.

5. Select the Manual mode with the mode selector switch (3) (Manual/Auto) on the monitor or the left control lever.

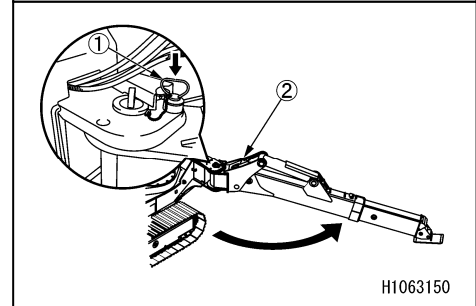


- Pull the position pin (1) out of the outrigger rotary (2) and rotate the outrigger rotary outward.



- Rotate the outrigger rotary (2) outwards so that it can align with the pin hole, and insert the positioning pin (1) into the hole as far as it will go.

<b>NOTES</b>
The positioning pin (1) is equipped with a wire to prevent it from being lost.

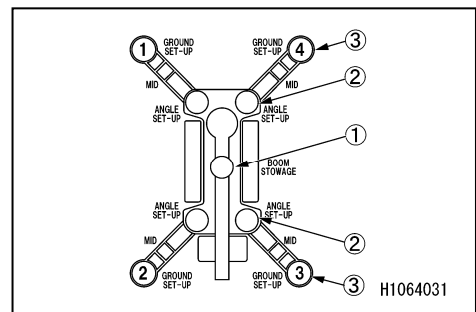


- Perform similar preparation work for the other 3 outriggers.

<b>NOTES</b>
When you are finished with the above preparation steps for other outriggers, check if the positioning pins (1) are securely inserted in place.

- Make sure that all of the four outrigger extension lamps (2) on the monitor are lit in green.

<b>NOTES</b>
The crane stowage lamp (1) and four outrigger extension lamps (2) on the monitor stay on.



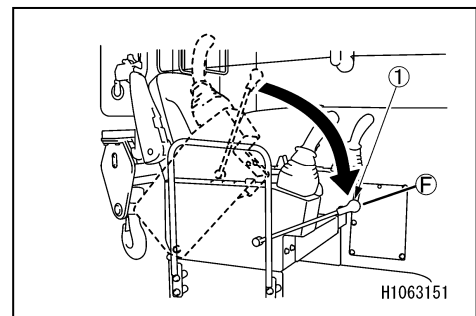
## OPERATIONS AFTER STARTING ENGINE

### **⚠ WARNING**

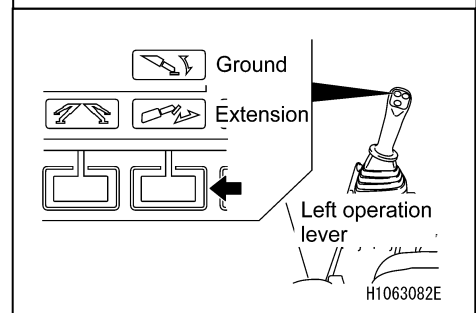
If the machine tilts at an angle of “3 degrees” or more while the outriggers are set, the overturn warning buzzer sounds. Bring the machine to a horizontal position at which the warning buzzer stops by operating the appropriate outrigger switches.

- See “3.1 STARTING / STOPPING ENGINE” to start the engine.

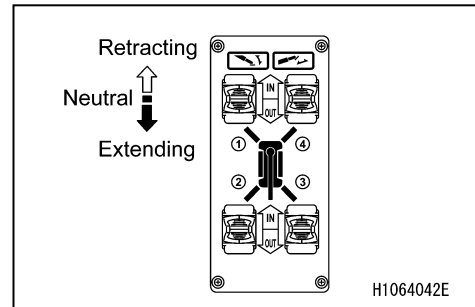
- Slowly and surely shift the lock lever (1) into a free (F) position.



- Select the Extension mode with the mode select switch (2) (Extension/Ground) on the monitor or the left control lever.



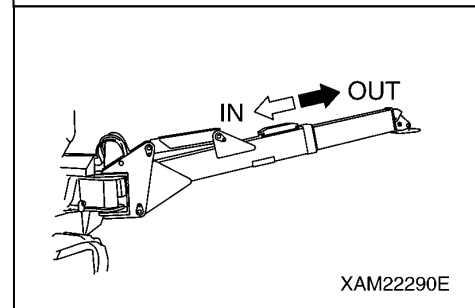
4. Identify the outrigger to be operated by checking the outrigger number shown on the operation nameplate attached to each outrigger switch on the outrigger operation panel.



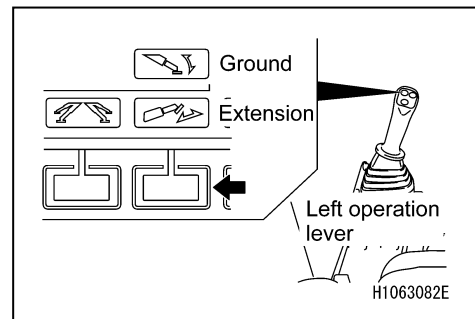
5. Set two outrigger switches individually or simultaneously to the “Extension” position.

When the inner boxes have reached the desired positions respectively with the corresponding outrigger extension cylinders extended, set the switch to the “NEUTRAL” position.

Repeat the above steps for the other two switches to extend all four outriggers to the desired positions, and set the switches to the “NEUTRAL” position.



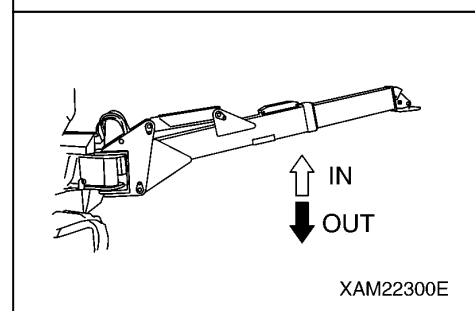
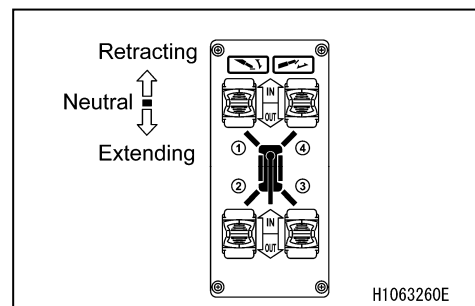
6. Select the Ground mode with the mode selector switch (2) (Extension/Ground) on the monitor or the left control lever.



7. Set two outrigger switches individually or simultaneously to the “Extension” position.

When the adapters have touched the ground, with the grounding cylinder extended, set the switch to the “NEUTRAL” position temporarily.

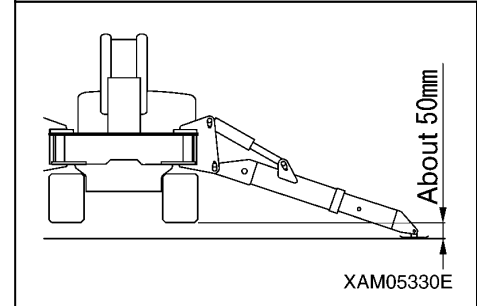
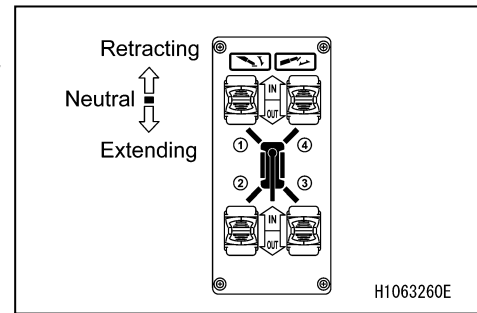
Repeat the above steps for the other two switches to allow all four outrigger adapters to come into contact with the ground, and set the switches to the “NEUTRAL” position.



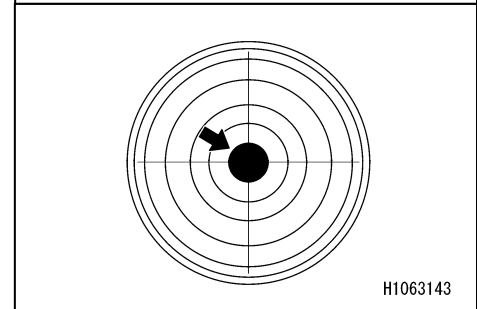
## ⚠ WARNING

When operating two outrigger switches at the same time, only two on the front side (outriggers [(1)] and [(4)]) or two on the rear side (outriggers [(2)] and [(3)]) can be operated at the same time. Simultaneous operation of the two switches for the outriggers on either left or right side will cause the outriggers on one side to leave the ground abruptly. This will result in overturning of the machine.

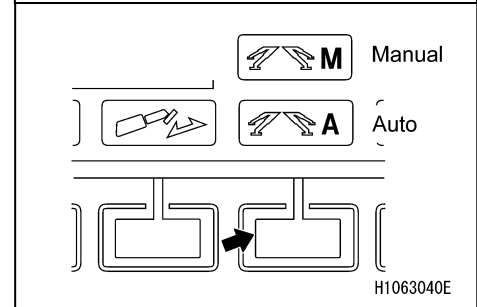
8. After all outrigger adapters have come into contact with the ground, set two outrigger switches individually or simultaneously to the “Extension” position. When a grounding cylinder extends and the machine slightly rises off the ground, set the switch to the “NEUTRAL” position temporarily. Repeat the above steps for the other two switches to allow the four outriggers to raise the machine from the ground at a constant height, and set the switches to the “NEUTRAL” position temporarily. Repeat the above steps to gradually raise the machine from the ground so that the crawler belts can be situated about 50 mm from the ground.



9. When the machine is raised up to a height of about 50 mm from the ground, adjust the machine so that the machine is in a horizontal position while checking the position of the yellow bubble in the leveling instrument. At this point, if “automatic” is selected for the mode selection switch (3), the machine is automatically leveled so that it is in horizontal condition.



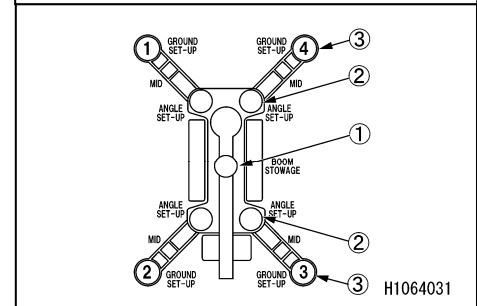
10. When you are finished setting all outriggers, set all outrigger switches to the “NEUTRAL” position.



11. Make sure that all of the four outrigger grounding lamps (3) on the monitor are lit in green.

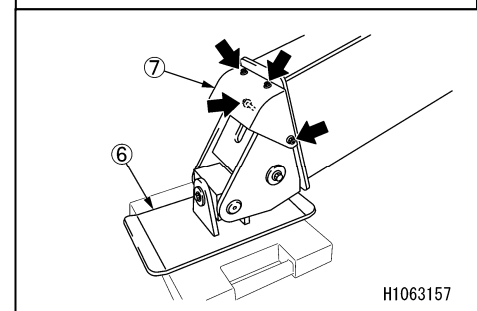
**NOTES**

All of the crane stowage lamp (1), the four outrigger extension lamps (2) and four outrigger grounding lamps (3) are lit in green.



**CAUTION**

If any of the outrigger grounding lamps (3) are blinking red, remove the cover (7) of the outrigger adapters (6) part and check them for foreign materials being caught in the bend sections.



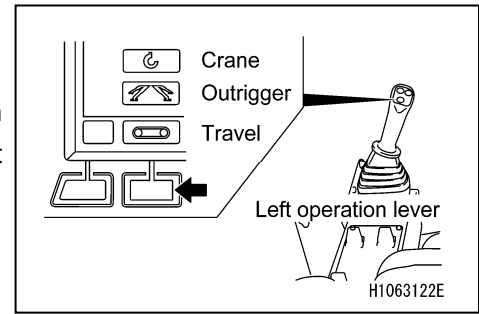
**[ OUTRIGGER STOWING OPERATION ]**

Reverse the outrigger set up procedure to stow the outrigger.

### 3.4 CRANE OPERATION

Perform the following operations before crane work.

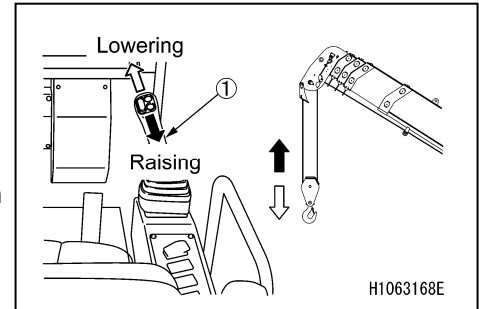
1. Shift the lock lever (1) into the free (F) position.
2. Change the mode to Crane with the mode selector switch (1) (Travel/Outrigger/Crane) on the monitor or the left control lever.



#### [ HOOK RAISING AND LOWERING ]

Operate the right operation lever (1) as follows:

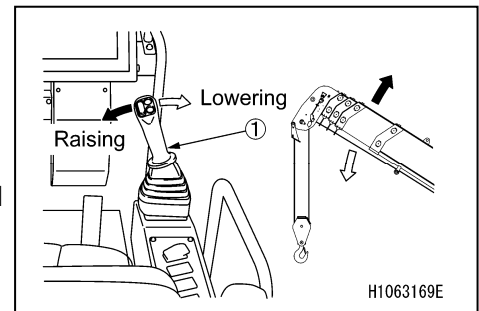
- Lowering: Push the lever forward.
- Neutral: Release your hand from the lever. The lever will return to the “NEUTRAL” position and the raising/lowering of the hook block stops.
- Raising: Pull the lever to the rear side.



#### [ BOOM DERRICKING OPERATION ]

Operate the right operation lever (1) as follows:

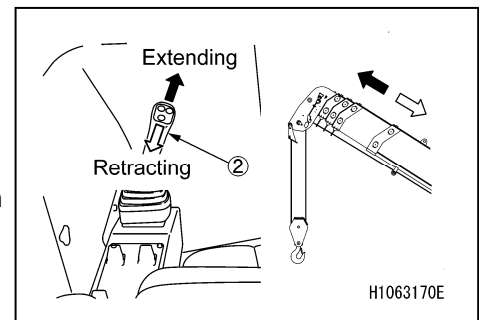
- Lower: Push the lever forward.
- Neutral: Release your hand from the lever. The lever returns to the “NEUTRAL” position and the boom derricking stops.
- Raise: Pull the lever to the rear side.



#### [ BOOM TELESCOPING OPERATION ]

Operate the left control lever (2) as follows:

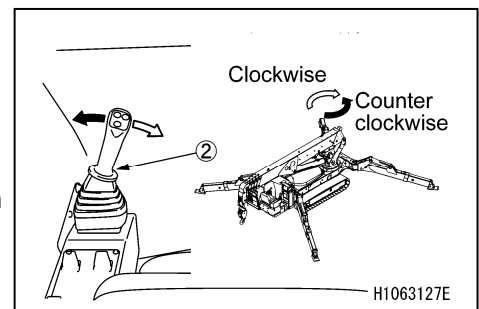
- Extension: Push the lever forward.
- Neutral: Release your hand from the lever. The lever returns to the “NEUTRAL” position and the boom telescoping stops.
- Retraction: Pull the lever toward you.



#### [ SLEWING OPERATION ]

Operate the left control lever (2) as follows:

- Left slewing: Push the lever to the left.
- Neutral: Release your hand from the lever. The lever returns to the “NEUTRAL” position and the slewing stops.
- Right slewing: Push the lever to the right.





### 3.5 CRANE STOWAGE OPERATION

#### **⚠ CAUTION**

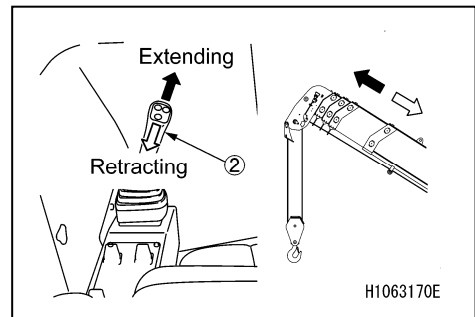
The hook stowage switch is used to cancel the automatic stop function of the over winding detector.  
Take sufficient care not to trap hands or objects when stowing the hook block.

#### **CAUTION**

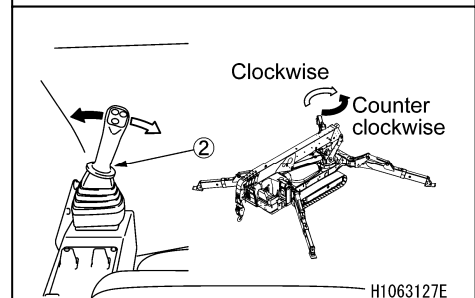
- Before stowing the hook block, stop the hook block from swaying.
- When stowing the hook block, be careful not to allow the entire hook block to fall sideways on the ground due to the wire rope being excessively loosened. Failure to observe this may result in an irregular winding of the wire rope in the winch drum.
- The “Retract” operation of the boom will lower the hook block. The “Lowering” operation of the boom also causes the hook block to move downward. Raise the hook at the same time so that the hook block will not touch the ground or interfere with the machine.
- Be sure to stow the boom in the designated position. After the boom has been stowed, make sure that the crane stowage lamp on the monitor is lit in yellow. If the crane stowage lamp is not lit in yellow, the outriggers cannot be stowed. If the crane stowage lamp is not lit, perform operations, such as lowering the boom at the lowest position, or slewing the boom, and check if the crane stowage lamp lights up in yellow.

#### [Manual stowage]

1. Pull the left control lever (2) toward you to retract the boom completely.



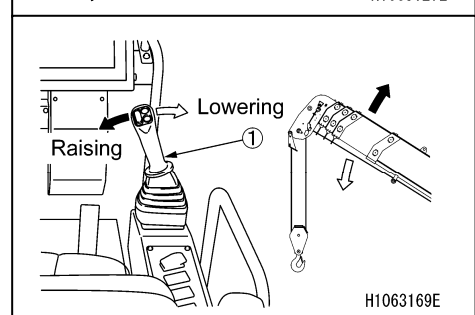
2. Push and hold the left control lever (2) to the left or right to slew the boom so that the slewing angle becomes 1 to 2 degrees.



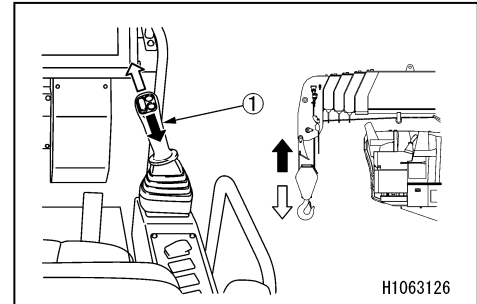
#### **⚠ WARNING**

If the boom angle is less than 20 degrees, the boom cannot be slewed between 335 to 5 degrees to prevent work directly above the operator.

3. Push and hold the right control lever (1) to the right until the boom stops automatically.



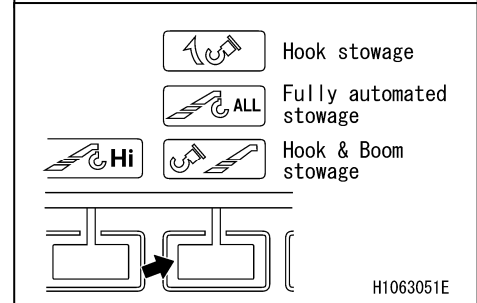
4. Push the right control lever (1) forward, and hoist the hook block until it automatically stops (over-winding is detected).



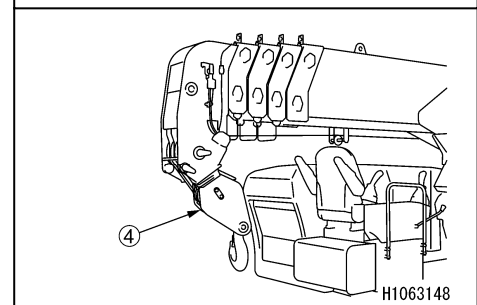
**NOTES**

If the hook block is excessively hoisted, the over hoist detector is activated, generating an alarm buzzer. This allows the ongoing winding operation to automatically stop.

5. Change the mode change switch (3) to “Hook stowage” on the monitor. While the button is pressed or the screen is touched, the hook is hoisted automatically; stow the hook (4).

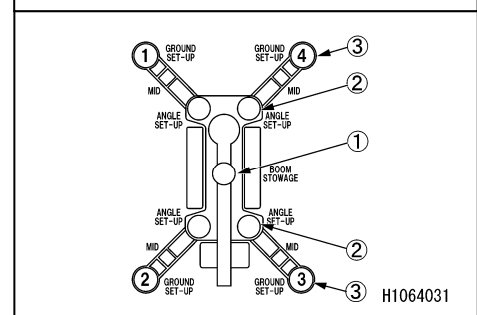


6. Make sure that the crane storage lamp (1) on the monitor is lit in yellow.



**NOTES**

If the crane storage lamp (1) is not lit in yellow, perform again the said operation, fully retract and lower the boom, or slew the boom.

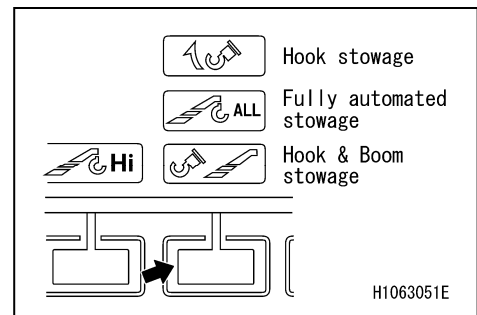


**[Automatic stowage]**

**⚠ WARNING**

**When automatically stowing the crane, check that there are no interfering objects in the surrounding area before doing so.**  
**If you feel danger during automatic stowage, immediately stop the operation. Automatic stowage can be stopped by pressing the emergency stop switch, or by operating the monitor or crane.**

1. When the fully automated stowage switch on the monitor is pressed once, the message “Boom will be stowed. Make sure there is no obstacle around the boom.” will be displayed.
2. Pressing the fully automated stowage switch once more starts the automatic stowage operation according to the following procedure.
  - (1) Hook is wound up until over-winding is detected.
  - (2) The boom is fully retracted.
  - (3) The boom is raised to 30 degrees.  
(In case boom angle is below 30 degrees.)
  - (4) The boom is slewed to a 2 degree slewing angle.
  - (5) The boom is fully lowered.
  - (6) The hook is stowed.



This completes the automatic stowage.

## 4. REMOTE CONTROL

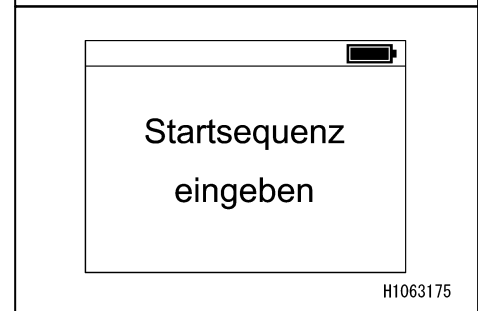
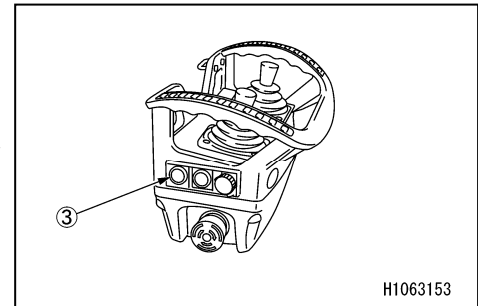
### [ POWERING ON ]

1. Press the remote controller power ON/OFF switch (3) once, and make sure that the power indicator on the upper left corner of the left display blinks in green. "Startsequenz eingeben" appears on the right display when the remote controller is preparing to be powered ON.

#### NOTES

When the controller is ready for power-on, performing one of the following operations will turn OFF the power to the controller:

- Press and hold the remote controller power ON/OFF switch (3).
- A switch other than the remote controller power ON/OFF switch (3) is pressed.
- The controller has been left un-operated for 5 second or longer.



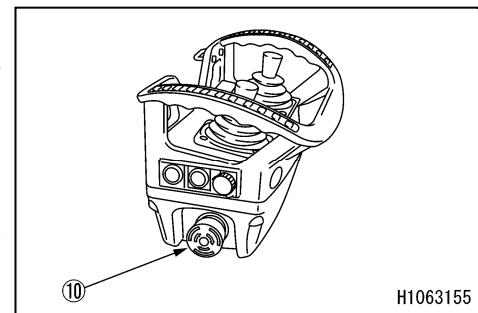
2. When the controller is ready for power-on, pressing and holding the remote controller power ON/OFF switch (3) will change the display indication, allowing you to operate the remote controller.

### [ POWERING OFF ]

Press the Emergency stop/Remote controller power OFF switch (10) when turning off the power to the transmitter, or in case of an abnormality in crane operations.

The power of the Transmitter turns OFF and the engine stops.

To cancel the emergency stop, turn the Emergency stop/Remote controller power OFF switch (10) to the right. The switch returns to the original position.



## 4.1 STARTING / STOPPING ENGINE

### CAUTION

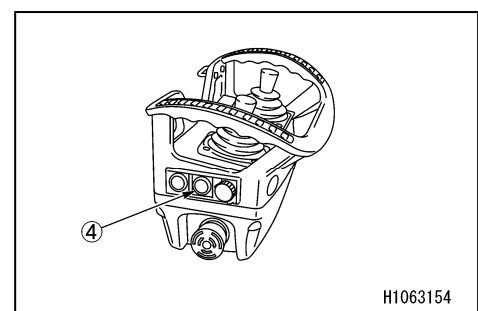
To start the engine, press and hold the engine start/stop switch (4) until it starts.

### [ STARTING THE ENGINE ]

Pressing the engine start/stop switch (4) when the engine is stopped will allow the engine to start.

### [ STOPPING THE ENGINE ]

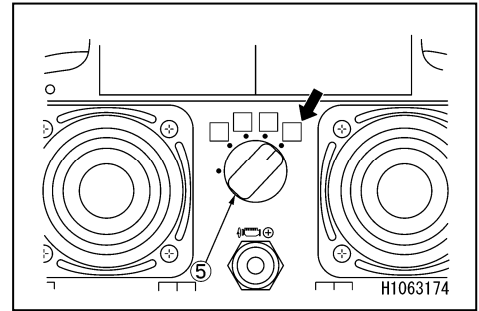
Pressing the engine start/stop switch (4) when the engine is running will allow the engine to stop.



## 4.2 TRAVELLING OPERATION

Set the operation mode selector switch (5) to Travel.

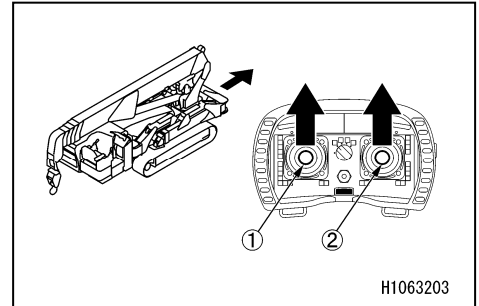
- Travel (red)



### [ MOVING FORWARD ]

Operate the left and right control levers at the same time.

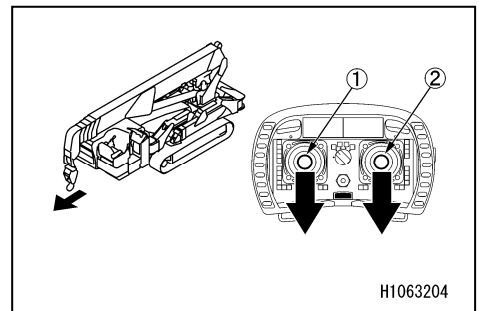
- Move forwards by slowly pushing the left operation lever (1) and right operation lever (2) forwards.



### [ MOVING BACKWARD ]

Operate the left and right control levers at the same time.

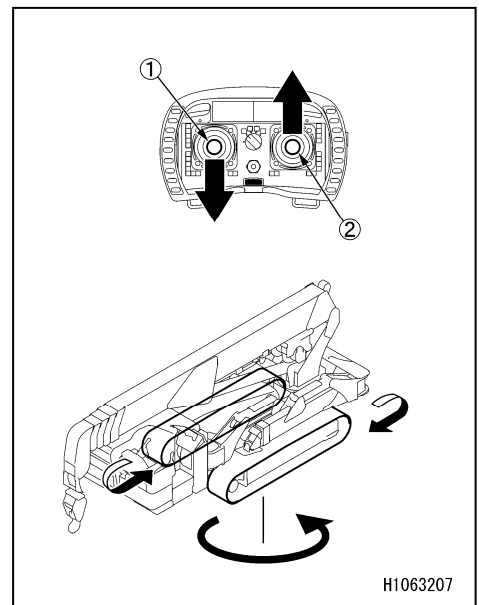
- Move backwards by slowly pulling the left operation lever (1) and right operation level (2) towards yourself.



### [ LEFT TURN ]

Pushing the right control lever (2) forward causes the machine to turn left in the forward direction.

Pulling the right control lever (2) toward you causes the machine to turn left in the backward direction.



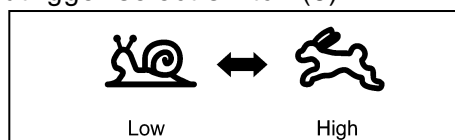
### [ RIGHT TURN ]

Pushing the left control lever (1) forward causes the machine to turn right in the forward direction.

Pulling the left control lever (1) toward you causes the machine to turn right in the backward direction.

### [ CHANGING TRAVELING SPEED MODE ]

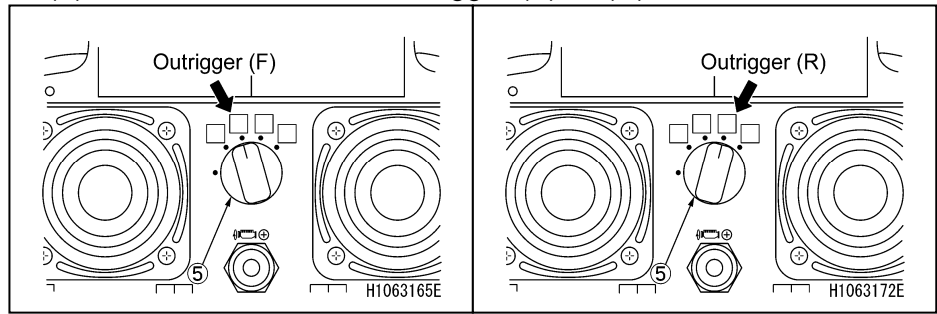
Only in the Crane and Travel modes, does it become possible to switch the speed mode between High and Low by pressing Speed selector/Outrigger select switch (6).



### 4.3 OUTRIGGER OPERATION

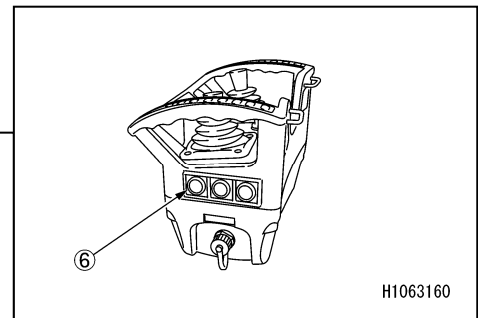
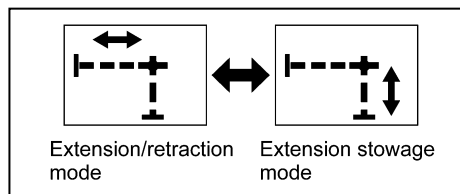
Set the mode selector switch (5) for the transmitter to Outrigger (F) or (R).

- Outrigger (F) operates outriggers (1) and (4).
- Outrigger (R) operates outriggers (2) and (3).



#### [ OUTRIGGER SETTING OPERATION ]

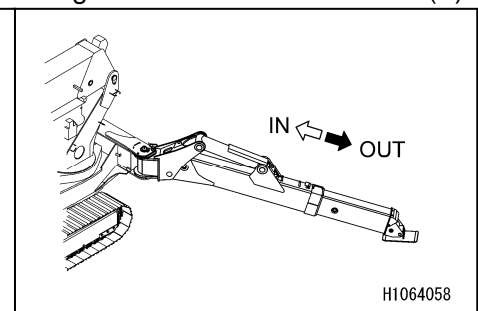
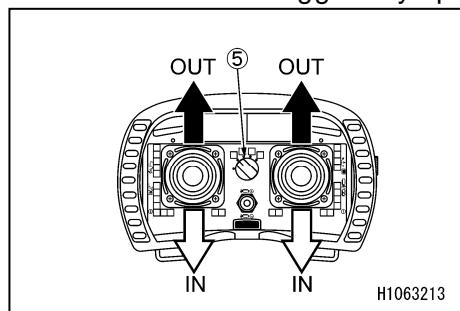
1. Change the mode to with the Transmitter speed selector/Outrigger select switch (6) on the transmitter.



2. Operate the control levers to extend and set the outriggers.

Repeat the above steps for the other two outriggers by operating the mode selector switch(5).

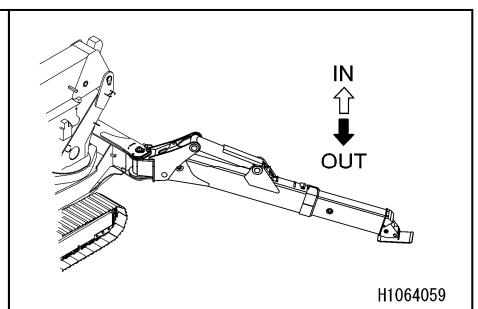
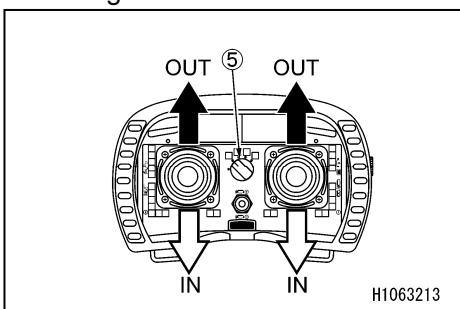
- Left lever:  
outrigger 1 or 2
- Right lever:  
outrigger 4 or 3



3. When the grounding cylinder is extended and the adapter is grounded by manipulating the control lever, release your hand from the operation lever.

Operate the above step for the other two outriggers with the mode selector switch (5) to allow them to make contact with the ground.

- Left lever:  
outrigger 1 or 2
- Right lever:  
outrigger 4 or 3



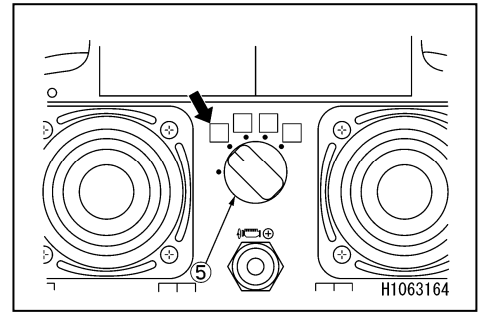
4. When the machine is raised up from the ground with a height of about 50 mm, manipulate the control lever while checking the position of the yellow bubble in the leveling instrument to keep the machine in a horizontal position.

#### [ OUTRIGGER STOWING OPERATION ]

Reverse the outrigger set up procedure to stow the outrigger.

## 4.4 CRANE OPERATION

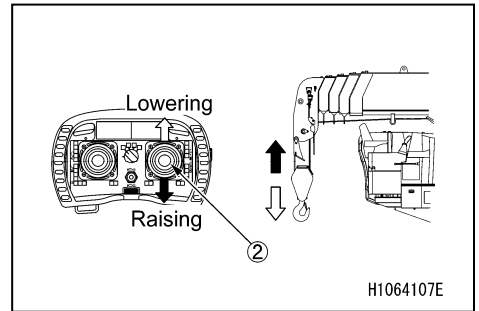
Set the operation mode selector switch (5) for the transmitter to Travel.



### [ HOOK RAISING AND LOWERING ]

Operate the right control lever (2) as follows:

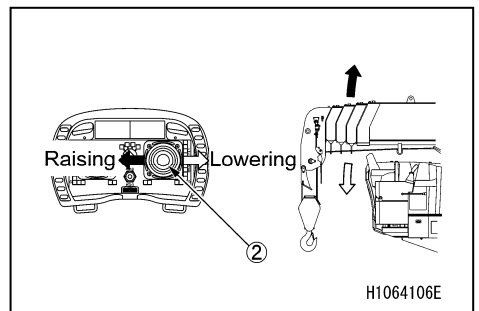
- Lowering: Push the lever forward.
- Neutral: Release your hand from the lever.  
The lever will return to the “NEUTRAL” position and the raising/lowering of the hook block stops.
- Raising: Pull the lever to the rear side.



### [ BOOM DERRICKING OPERATION ]

Operate the right control lever (2) as follows:

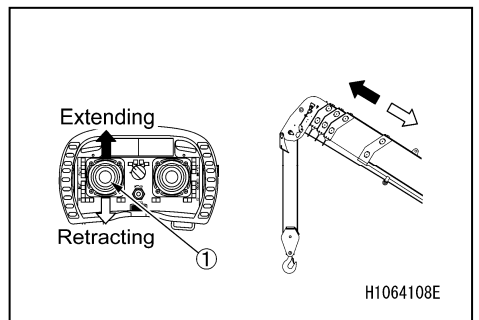
- Lower: Push the lever forward.
- Neutral: Release your hand from the lever.  
The lever returns to the “NEUTRAL” position and the boom derricking stops.
- Raise: Pull the lever to the rear side.



### [ BOOM TELESCOPING OPERATION ]

Operate the left control lever (1) as follows:

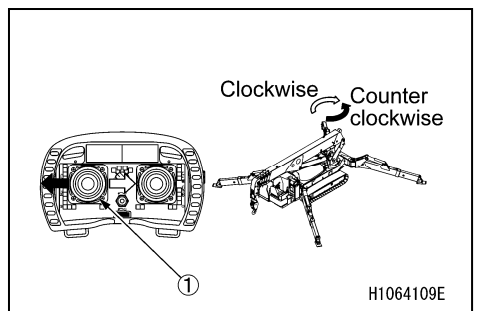
- Extension: Push the lever forward.
- Neutral: Release your hand from the lever.  
The lever returns to the “NEUTRAL” position and the boom telescoping stops.
- Retraction: Pull the lever toward you.



### [ SLEWING OPERATION ]

Operate the left control lever (1) as follows:

- Left slewing: Push the lever to the left.
- Neutral: Release your hand from the lever.  
The lever returns to the “NEUTRAL” position and the slewing stops.
- Right slewing: Push the lever to the right.



## **QUICK OPERATION GUIDE for MAEDA CRAWLER CRANE MC815C**

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