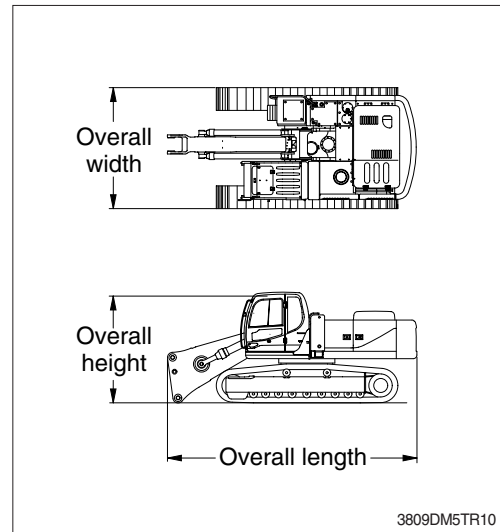


# TRANSPORTATION

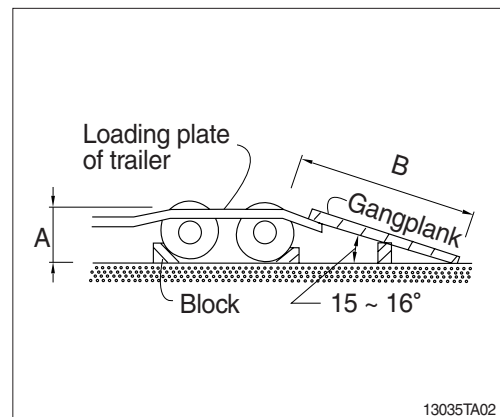
## 1. PREPARATION FOR TRANSPORTATION

- 1) When transporting the machine, observe the various road rules, road transportation vehicle laws and vehicle limit ordinances, etc.
- 2) Select proper trailer after confirming the weight and dimension from the chapter 2, specification.
- 3) Check the whole route such as the road width, the height of bridge and limit of weight and etc., which will be passed.
- 4) Get the permission from the related authority if necessary.
- 5) Prepare suitable capacity of trailer to support the machine.



- 6) Prepare gangplank for safe loading referring to the below table and illustration.

A	B
1.0	3.65 ~ 3.85
1.1	4.00 ~ 4.25
1.2	4.35 ~ 4.60
1.3	4.75 ~ 5.00
1.4	5.10 ~ 5.40
1.5	5.50 ~ 5.75

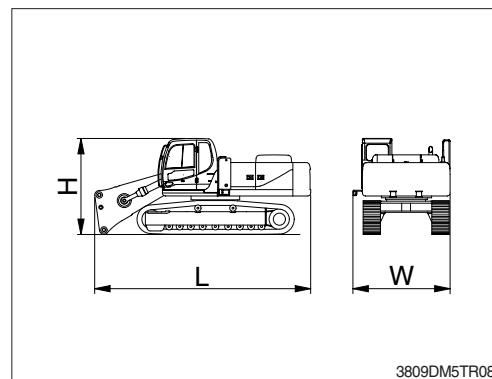


## 2. DIMENSION AND WEIGHT

### 1) BASE MACHINE

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	7010 (22' 12")
H	Height	mm (ft-in)	3175 (10' 5")
W	Width	mm (ft-in)	3280 (10' 9")
Wt	Weight	kg (lb)	36590 (80670)

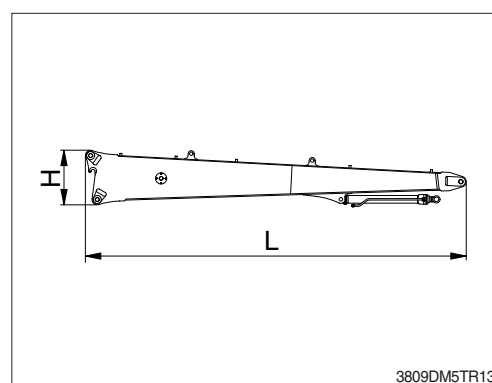
※ With base boom, boom cylinder and cat walk.



### 2) EXTANSION BOOM ASSEMBLY (7.25 m, 23' 9")

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	7250 (23' 9")
H	Height	mm (ft-in)	1300 ( 4' 3")
W	Width	mm (ft-in)	710 ( 2' 4")
Wt	Weight	kg (lb)	4010 (8840)

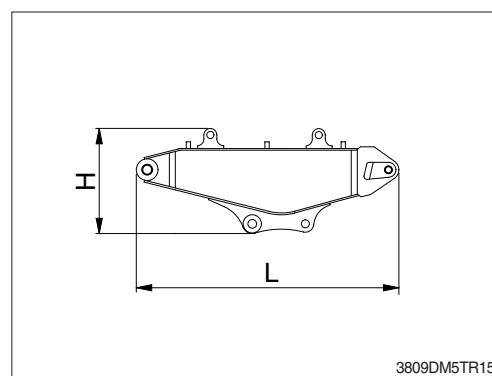
※ With middle arm cylinder and boom pipings.



### 3) MIDDLE ARM ASSEMBLY (2.6 m, 8' 6")

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	2600 (8' 6")
H	Height	mm (ft-in)	1060 (3' 6")
W	Width	mm (ft-in)	570 (1' 10")
Wt	Weight	kg (lb)	1050 (2315)

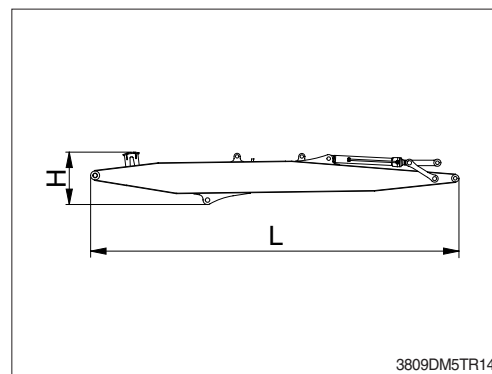
※ With middle arm pipings.



### 4) END ARM ASSEMBLY (6.6 m, 21' 8")

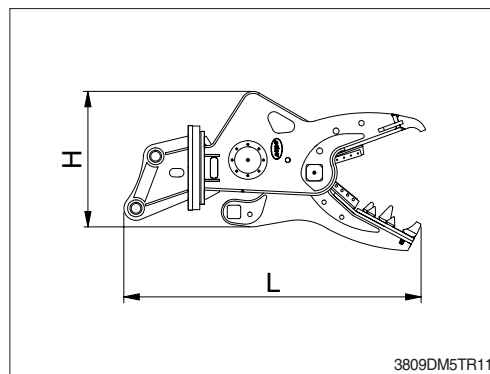
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	6600 (21' 8")
H	Height	mm (ft-in)	1065 ( 3' 6")
W	Wedth	mm (ft-in)	550 ( 1' 10")
Wt	Weight	kg (lb)	1730 (3815)

※ With crusher cylinder and end arm pipings.



## 5) CRUSER ASSEMBLY

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	2500 ( 8' 2")
H	Height	mm (ft-in)	1320 ( 4' 4")
Wt	Weight	kg (lb)	1850 (4080)



## 6) END ARM CYLINDER

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	1960 ( 6' 5")
H	Height	mm (ft-in)	220 ( 0' 9")
Wt	Weight	kg (lb)	235 (520)

Technical drawing of the END ARM CYLINDER. The drawing shows a side profile of the cylinder with dimension lines indicating Length (L) and Height (H). The part number 3809DM5TR21 is visible in the bottom right corner.

## 7) CAB ASSEMBLY

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	2030 ( 6' 8")
H	Height	mm (ft-in)	1830 ( 6' 0")
W	Width	mm (ft-in)	1000 ( 3' 3")
Wt	Weight	kg (lb)	550 (1210)

※ With fog guard assembly.

Technical drawing of the CAB ASSEMBLY. The drawing shows two views: a side profile and a front view. Dimension lines indicate Length (L), Height (H), and Width (W). The part number 2909MH5TR08 is visible in the bottom right corner.

## 8) COUNTERWEIGHT

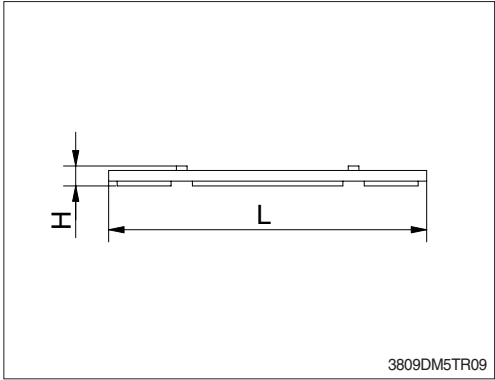
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	2980 ( 9' 9")
H	Height	mm (ft-in)	1150 ( 3' 9")
W	Width	mm (ft-in)	640 ( 2' 1")
Wt	Weight	kg (lb)	8100 (17860)

Technical drawing of the COUNTERWEIGHT. The drawing shows two views: a side profile and a front view. Dimension lines indicate Length (L), Height (H), and Width (W). The word "HYUNDAI" is visible on the side profile. The part number 2909MH5TR09 is visible in the bottom right corner.

5-3

9) ADDITIONAL COUNTERWEIGHT

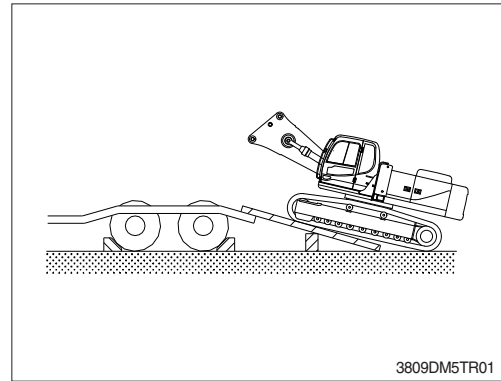
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	2980 ( 9' 9")
H	Height	mm (ft-in)	190 ( 0' 7")
W	Width	mm (ft-in)	810 ( 2' 8")
Wt	Weight	kg (lb)	2220 (4890)



### 3. LOADING THE MACHINE

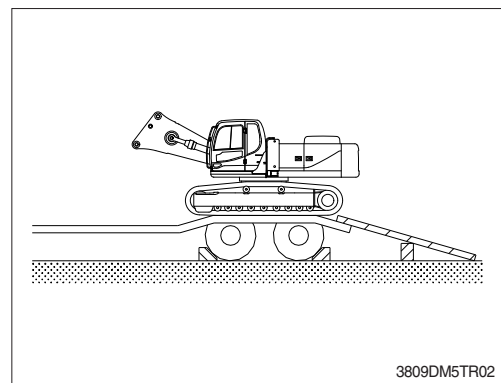
- 1) Load and unload the machine on a flat ground.
- 2) Use the gangplank with sufficient length, width, thickness and gradient.
- 3) Place the safety lever to the LOCK position (if equipped) before fixing the machine at the bed of trailer and confirm if the machine parallels the bed of trailer.

Keep the travel motor in the rear when loading and in the front when unloading.

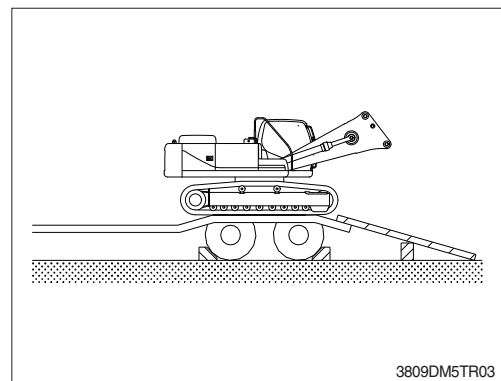


- 4) Do the following after loading the machine to the trailer.

- (1) Stop loading when the machine is located horizontally with the rear wheel of trailer.



- (2) Place the safety lever to the LOCK position (if equipped) after the swing the machine 180 degree.



(3) Lower the working equipment gently after the location is determined.

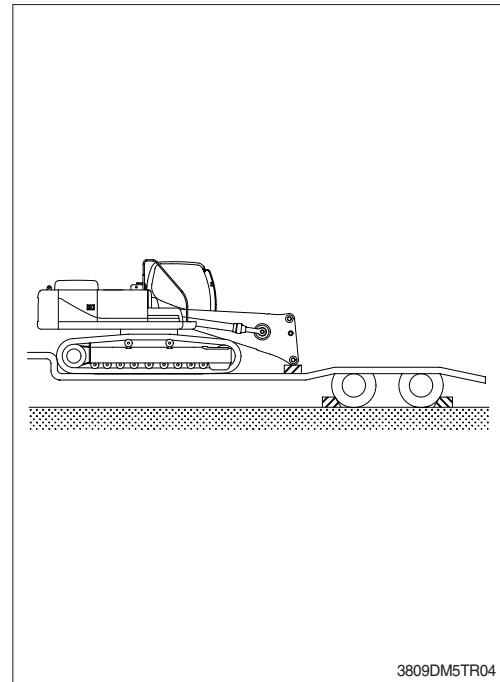
※ **Place rectangular timber under the base boom to prevent the damage of it during transportation.**

▲ **Be sure to keep the travel speed switch on the LOW (turtle mark) while loading and unloading the machine.**

▲ **Avoid using the working equipment for loading and unloading since it will be very dangerous.**

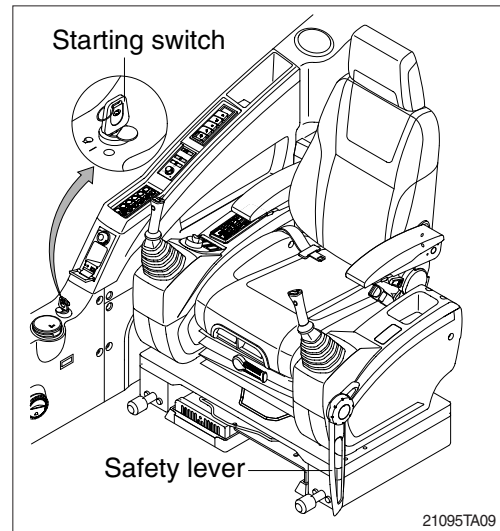
▲ **Do not operate any other device when loading.**

▲ **Be careful on the boundary place of loading plate or trailer as the balance of machine will abruptly be changed on the point.**

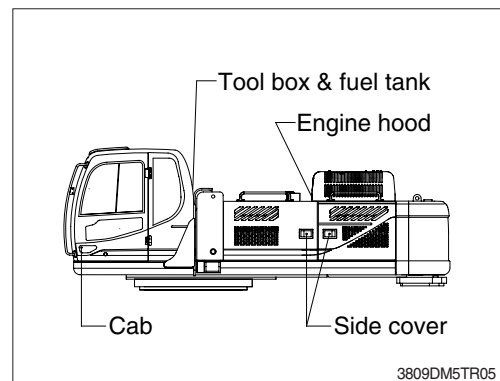


## 4. FIXING THE MACHINE

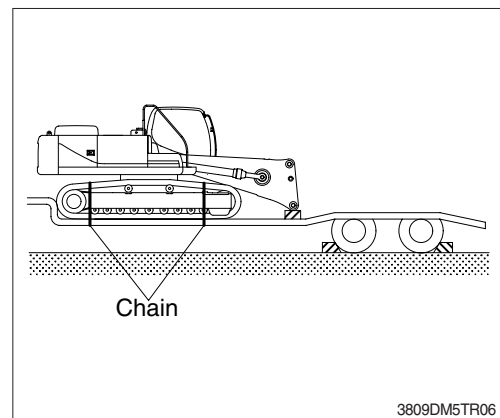
- 1) Lower down the working device on the loading plate of trailer.
- 2) Keep the safety lever on the LOCK position.
- 3) Turn OFF all the switches and remove the key.



- 4) Secure all locks.



- 5) Fix firmly with wire rope to prevent the machine from moving forward, backward, right or left.



## 5. LOADING AND UNLOADING BY CRANE

- 1) Check the weight, length, width and height of the machine referring to the chapter 2, specification when you are going to hoist the machine.
- 2) Use long wire rope and stay to keep the distance with the machine as it should avoid touching with the machine.
- 3) Put a rubber plate contact with wire rope and machine to prevent damage.
- 4) Place crane on the proper place.
- 5) Install the wire rope and stay like the illustration.

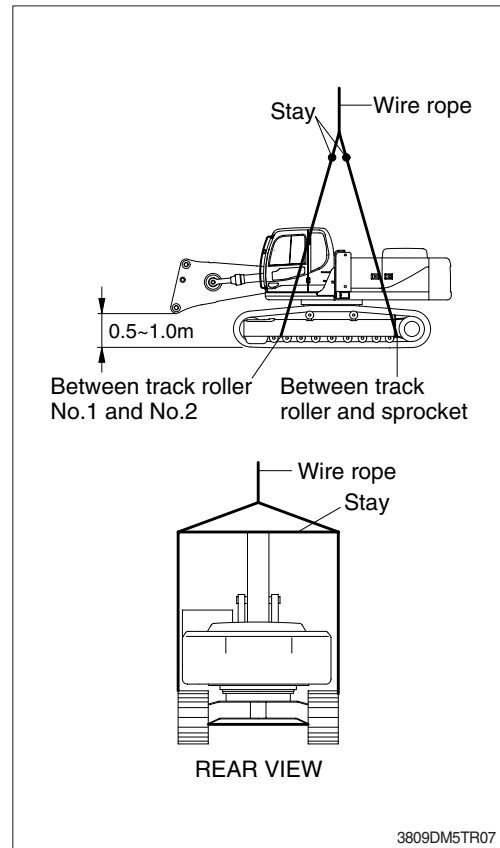
⚠ **Make sure wire rope is proper size.**

⚠ **Place the safety lever to LOCK position to prevent the machine moving when hoisting the machine.**

⚠ **The wrong hoisting method or installation of wire rope can cause damage to the machine.**

⚠ **Do not load abruptly.**

⚠ **Keep area clear of personnel.**



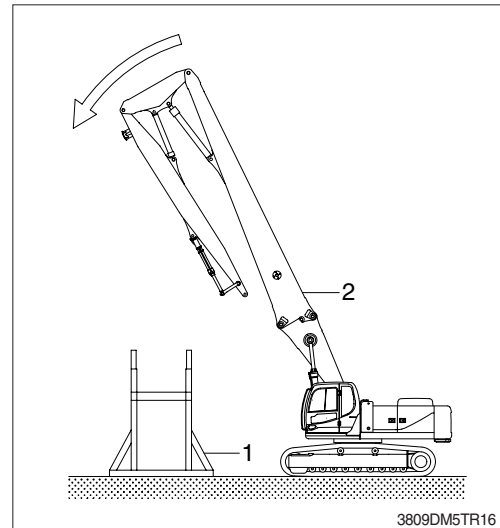


## 6. DISASSEMBLING FOR TRANSPORTATION

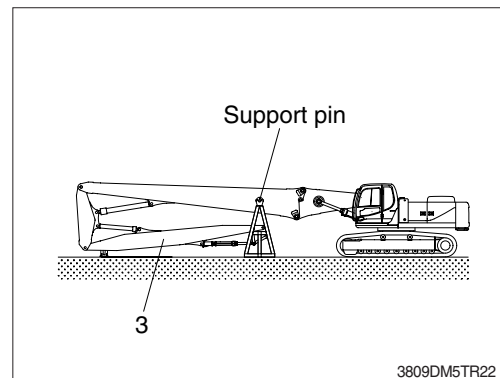
### 1) REMOVAL OF THE HIGH-REACH DEMOLITION BOOM

- Perform this procedure on a flat and level surface.
- Make sure to have suitable containers available to collect hydraulic oil when opening, maintaining, inspecting, testing, adjusting or repairing components containing hydraulic oil.
- Dispose drained fluids according to local regulations and mandates.

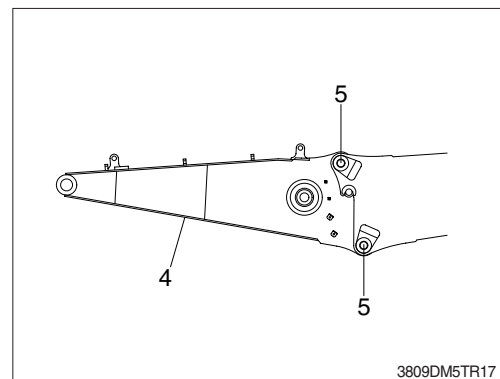
- (1) Place the supporting cradle (1) on a flat and level surface.
- (2) Fully retract the middle arm cylinder and the end arm cylinder. Fully extend the crusher cylinder.
- ※ **Make sure that the demolition attachment is removed from the end arm properly.**
- (3) Align and park the machine in front of the supporting cradle.
- (4) Position the boom (2) while maintaining proper clearance to the cradle.



- (5) Lower the boom until the extension boom support pins are properly supported by the cradle.
- (6) Move the end arm (3) outwards until the supporting bracket reaches the ground and the extension boom is properly supported in a 3-point stable position.

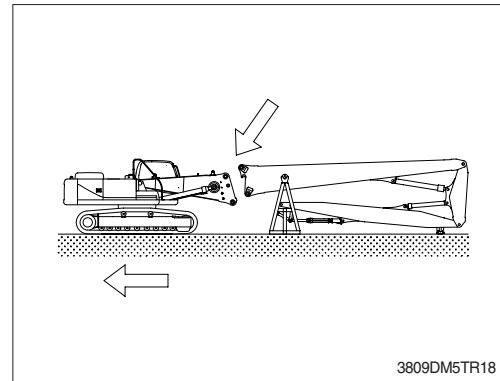


- (7) Loosen the safety bolts and remove the support pins (5).  
If connection pins are stuck, move the base boom up or down slowly while hammering the pins.
- (8) Stop the engine, operate both joysticks and the middle arm operating pedal to relieve the pressure from the hydraulic lines, then disconnect the hydraulic lines. First take the upper lines, then loosen the lower lines.



▲ Please take care of the above notes.

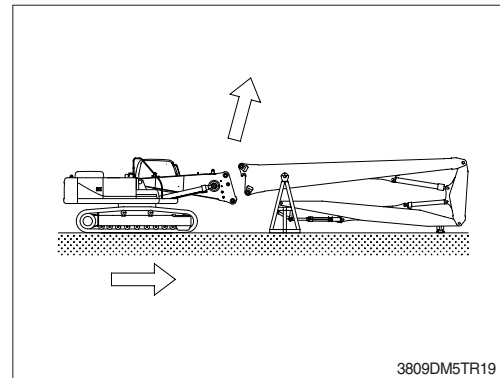
- (9) Restart the engine and slowly lower the base boom in order to final detach the extension arm.
- (10) Move the machine back to free up the attachment.
- (11) Fasten the extension boom safely to the cradle.



## 2) INSTALLATION OF THE HIGH-REACH DEMOLITION BOOM

- Perform this procedure on a flat and level surface.
- Make sure to have suitable containers available to collect hydraulic oil when opening, maintaining, inspecting, testing, adjusting or repairing components containing hydraulic oil.
- Dispose drained fluids according to local regulations and mandates.

- (1) Have the engine running and move the machine inline with the attachment in the supporting cradle.
- (2) Move the base boom side pins in the extension boom hooks slowly. Raise the attached boom until both pin holes are aligned.
- (3) Install the support pins and tighten the safety bolts.
- (4) Connect the hydraulic hoses one by one and tighten them as necessary. Start first with the lower lines, then proceed with the upper lines.
- (5) After connecting the hydraulic lines, vent the hydraulic system by running the engine on high rpm and by slowly operating the functions by using full stroke of the joystick and pedals.



- ▲ If some functions don't operate, stop the engine and check for line connections or leakages. If necessary, remove the trapped air from the hydraulic lines.**
- (6) Install the suitable demolition attachment.
- ▲ The heavy extension boom can fall when not correctly installed. Before moving the attached extension boom, make sure that all relevant persons take the necessary safety distance.**