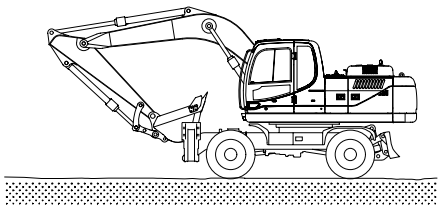
1. ROAD TRAVELING

As this machine can run at the maximum speed of 31 km/h, it is not necessary to transport the machine on trailer in a short distance.
But the transportation by the trailer is convenient in a long distance.

If it is necessary to travel on a road, observe the followings.

1) Comply with regulations regarding this machine for the sake of safety.
2) Perform daily inspection before starting the machine.
3) Cross the bridge after checking that it will safely support the machine weight. If the bridge can not support, a detour must be prepared or the bridge must be reinforced.
4) When traveling for a long distance, stop every hour to allow tires and other components to cool down and check any abnormality.
5) Drive with the bucket empty.



20W95TA01

2. PREPARATION FOR TRANSPORTATION

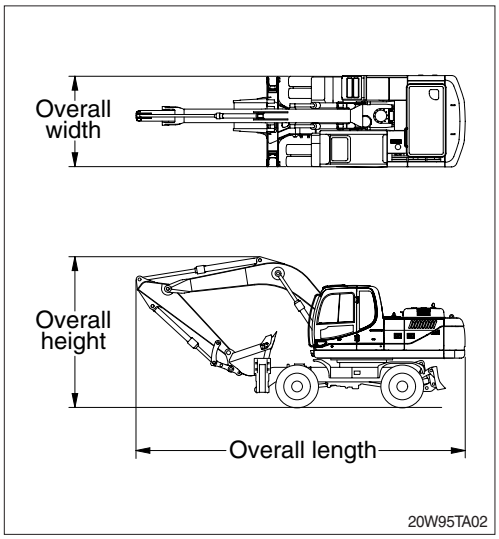
1) When transporting the machine, observe the various road rules, road transportation vehicle laws and vehicle limit ordinances, etc.

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.

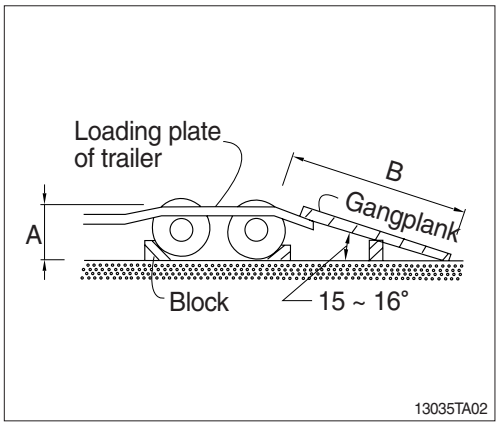
4) Get the permission from the related authority if necessary.

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



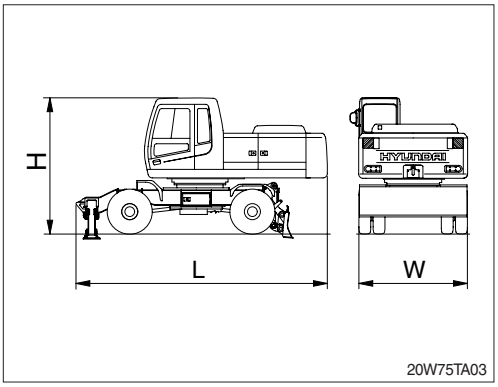
3. DIMENSION AND WEIGHT

1) ROBEX 210W-9

(1) Base machine

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	5220 (17' 2")
H	Height	mm (ft-in)	3180 (10' 5")
W	Width	mm (ft-in)	2490 (8' 2")
Wt	Weight	kg (lb)	16200 (35720)

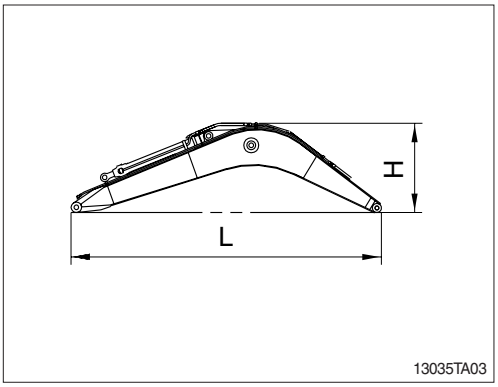
※ 3400 kg (7500 lb) counterweight.



(2) Boom assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	5840 (19' 2")
H	Height	mm (ft-in)	1550 (5' 1")
W	Width	mm (ft-in)	630 (2' 1")
Wt	Weight	kg (lb)	1870 (4120)

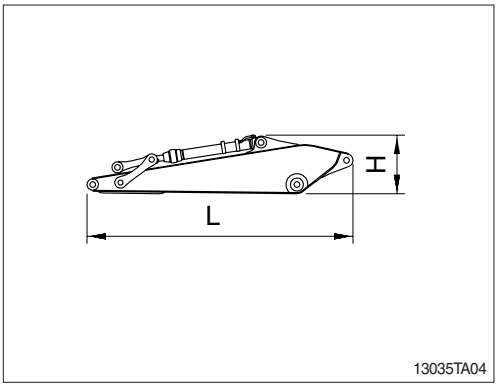
※ 5.65 m (18' 6") boom with arm cylinder (included piping and pins).



(3) Arm assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	3910 (12' 0")
H	Height	mm (ft-in)	870 (2' 10")
W	Width	mm (ft-in)	350 (1' 2")
Wt	Weight	kg (lb)	1095 (2410)

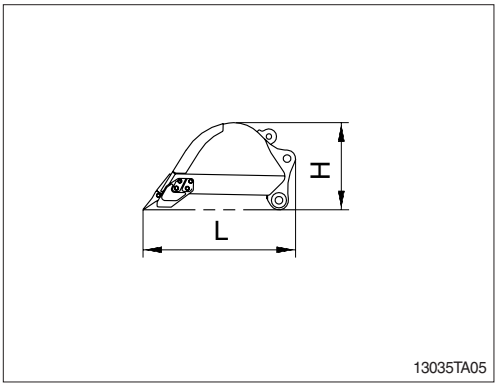
※ 2.92 m (9' 7") arm with bucket cylinder (included linkage and pins).



(4) Bucket assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	1600 (5' 3")
H	Height	mm (ft-in)	980 (3' 3")
W	Width	mm (ft-in)	1160 (3' 10")
Wt	Weight	kg (lb)	710 (1570)

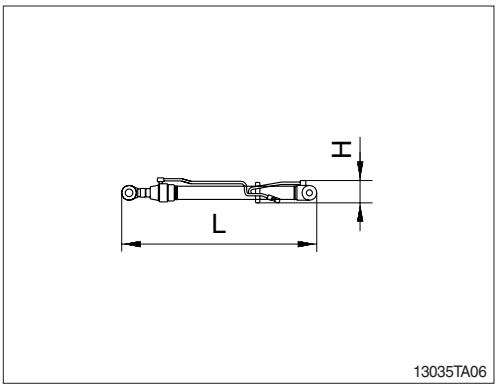
※ 0.80 m^3 (1.05 yd^3) SAE heaped bucket (included tooth and side cutters).



(5) Boom cylinder

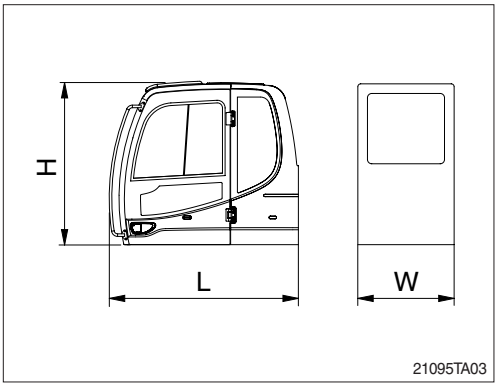
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	1960 (6' 5")
H	Height	mm (ft-in)	230 (0' 9")
W	Width	mm (ft-in)	330 (1' 1")
Wt	Weight	kg (lb)	360 (794)/2EA

※ Included piping.



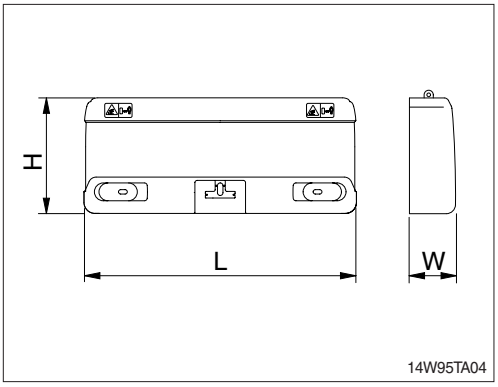
(6) Cab assembly

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	2000 (6' 7")
H	Height	mm (ft-in)	1740 (5' 9")
W	Width	mm (ft-in)	1288 (4' 2")
Wt	Weight	kg (lb)	500 (1100)



(7) Counterweight

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	2530 (8' 4")
H	Height	mm (ft-in)	1050 (3' 5")
W	Width	mm (ft-in)	560 (1' 10")
Wt	Weight	kg (lb)	3400 (7500)



4. LOADING THE MACHINE

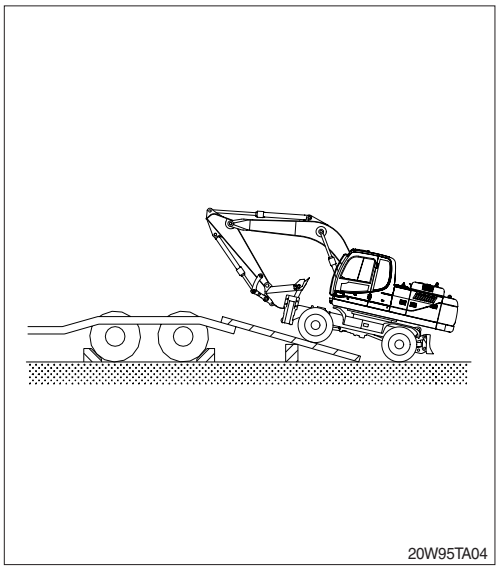
1) Load and unload the machine on a flat ground.

2) Use the gangplank with sufficient length, width, thickness and gradient.

3) Place block tires of the truck and the trailer not to move the trailer.

4) Place the swing lock device to the **LOCK** position before fixing the machine at the bed of trailer and confirm if the machine parallels the bed of trailer.

5) Drive straight and depress the acceleration pedal slowly on the gangplank with the two speed switch positioned as low speed.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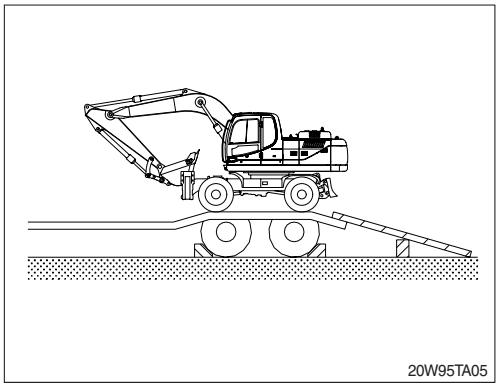
6) Do the following after loading the machine to the trailer.

(1) Stop loading when the machine is located horizontally with the rear wheel of trailer.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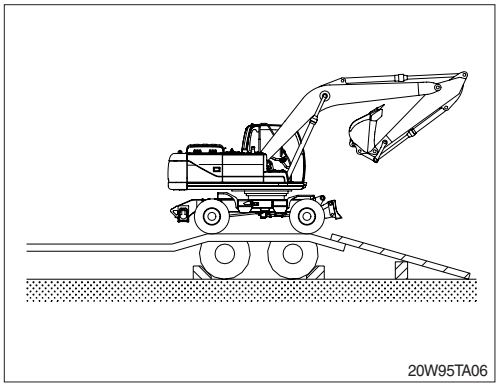
(2) Place the swing lock device to the **LOCK** position after the swing the machine 180 degree.


20W95TA06

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

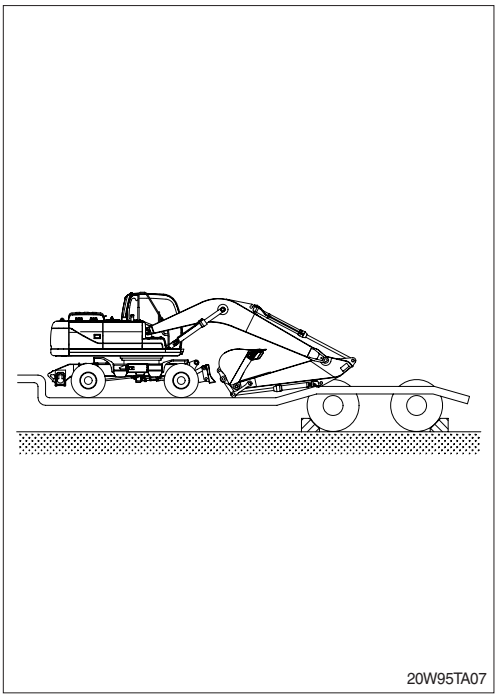
※ **Place rectangular timber under the bucket cylinder to prevent the damage of it during transportation.**

⚠ **Be sure to keep the travel speed switch on the low speed 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.**



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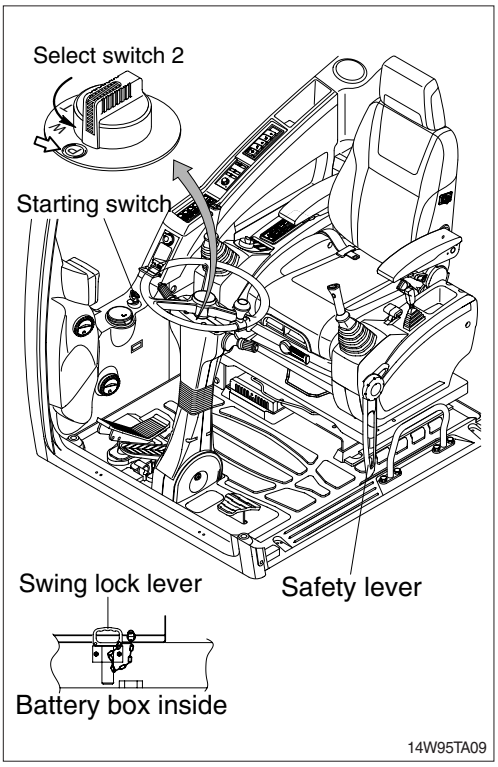
5. FIXING THE MACHINE

1) Place the swing lock device on the LOCK position.

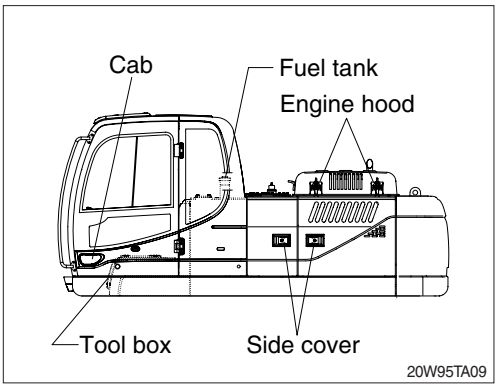
2) Place the select switch 2 to the parking position.

3) Keep the safety lever on the SAFETY position.

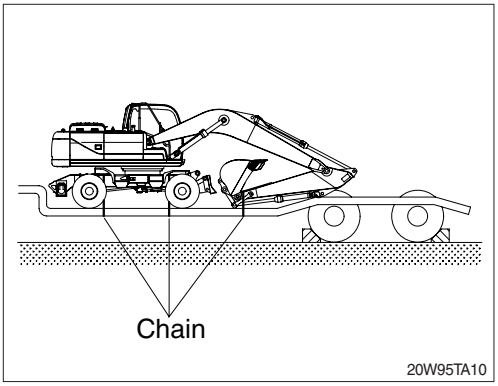
4) Turn OFF all the switches and remove the key.



5) Secure all locks.



6) Place timber underneath of the tires and fix firmly with wire rope to prevent the machine from moving forward, backward, right or left.



6. 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 where the wire rop contact with the machine's body to prevent damage.
4) Place crane on the proper place.
5) After the boom is raised to the maximum high, 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.**

⚠ **Recommend to manufacture the stays separately as per lifting conditions.**