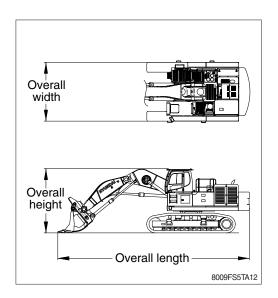
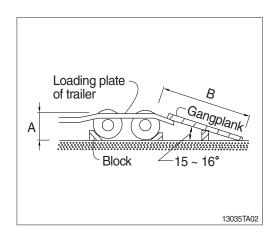
TRANSPORTATION

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.
- 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	В
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



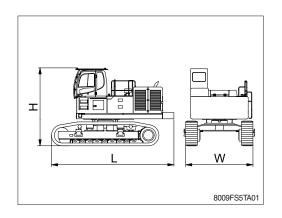


2. DIMENSION AND WEIGHT

1) BASE MACHINE 1

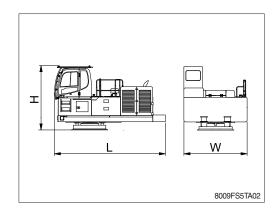
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	7150 (23' 5")
Н	Height	mm (ft-in)	4810 (15' 9")
W	Width	mm (ft-in)	3480 (11' 5")
Wt	Weight	kg (lb)	2000 (114640)

- * With 700 mm (28") double grouser shoes.
- * Remove catwalk for transport.



2) BASE MACHINE 2

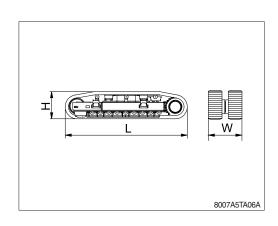
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	5800 (19' 0")
Н	Height	mm (ft-in)	3900 (12' 10")
W	Width	mm (ft-in)	3620 (11' 11")
Wt	Weight	kg (lb)	25450 (56110)



3) TRACK FRAME

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	6335 (20' 9")
Н	Height	mm (ft-in)	1480 (4' 10")
W	Width	mm (ft-in)	1020 (3' 4")
Wt	Weight	kg (lb)	13100 (28880)

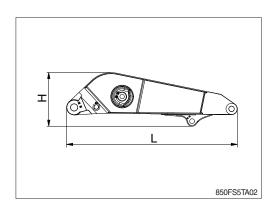
^{*} Shoe (700 mm)



4) BOOM ASSEMBLY

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	5000(16' 5")
Н	Height	mm (ft-in)	1700(5' 7")
W	Width	mm (ft-in)	1400(4' 7")
Wt	Weight	kg (lb)	6640(14640)

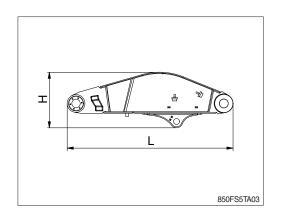
^{¾ 4.60 m (15' 1") boom with arm cylinder (Included piping and pins).}



5) ARM ASSEMBLY

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	3930 (12' 11")
Н	Height	mm (ft-in)	1300 (4' 3")
W	Width	mm (ft-in)	1200 (3' 11")
Wt	Weight	kg (lb)	4020 (8860)

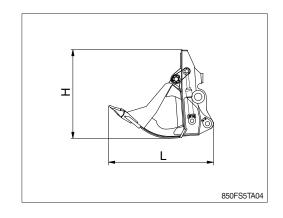
^{* 3.50} m (11' 6") arm with bucket cylinder (Included linkage and pins).



6) BUCKET ASSEMBLY

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	2610 (8' 7")
Н	Height	mm (ft-in)	2270 (7' 5")
W	Width	mm (ft-in)	2520 (8' 3")
Wt	Weight	kg (lb)	7800 (17200)

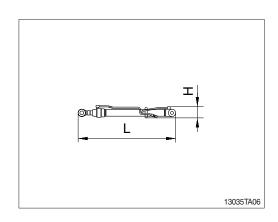
* 4.50 (5.89 yd³) SAE heaped bucket (Included tooth)



7) BOOM CYLINDER

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	3000 (9' 10")
Н	Height	mm (ft-in)	520 (1' 8")
W	Width	mm (ft-in)	370 (1' 3")
Wt	Weight	kg (lb)	1290 (2840)

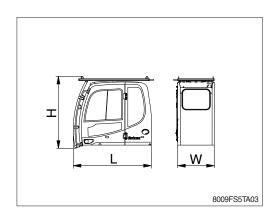
^{*} Included piping.



8) CAB ASSEMBLY

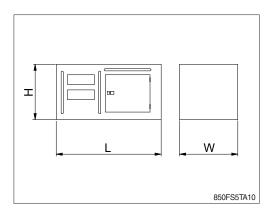
	Y		
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	2030 (6' 8")
Н	Height	mm (ft-in)	1830 (6' 0")
W	Width	mm (ft-in)	1000 (3' 3")
Wt	Weight	kg (lb)	550 (1210)

^{*} With fog guard assembly.



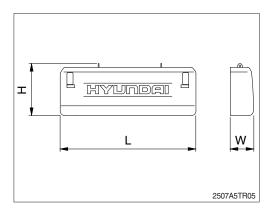
9) CAB RISER

Mark	Description	Unit	Specification
L	Length	mm (ft-in)	1800 (5' 11")
Н	Height	mm (ft-in)	950 (3' 1")
W	Width	mm (ft-in)	1000 (3' 3")
Wt	Weight	kg (lb)	560 (1235)



10) COUNTERWEIGHT

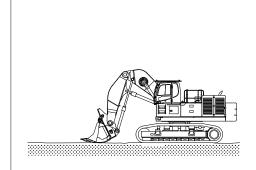
Mark	Description	Unit	Specification
L	Length	mm (ft-in)	3420 (11' 3")
Н	Height	mm (ft-in)	1450 (4' 9")
W	Width	mm (ft-in)	750 (2' 6")
Wt	Weight	kg (lb)	12500 (27560)



3. DISASSEMBLING FOR TRANSPORTATION

1) DISCONNECTING HYDRAULIC HOSES AND LINES

- (1) Position the machine on flat, firm and level ground.
- (2) Retract the bucket cylinder and arm cylinder completely.
- (3) Lower the boom to the ground as shown.
- (4) Stop the engine.
- (5) Move the safety lever down to lock the system securely.
- * Refer to the page 3-29 for details.
- (6) Turn the engine start switch to ON position. Do not start the engine.
- (7) Pull up the safety lever, Move the left and right operating levers, respectively to the full extension in all directions to remove internal pressure from the hydraulic circuits.
- (8) Turn the star switch to OFF position.
- (9) Release internal pressure in the hydraulic tank through the air breather of the hydraulic tank.
- (10) Disconnect hoses and lines.
- * Treat oil in an environmentally safe way.
- (11)Dismantle the components(boom, arm, counterweight etc.)
- ▲ Immediately after operating the machine, the hot hydraulic oil can cause severe burns to unprotected skin.
- ⚠ These may be residual hydraulic pressure can remain in the hydraulic system. Serious injury may result if this residual pressure is not released before any service is done on the hydraulic system.



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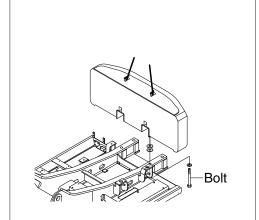
2) COUNTERWEIGHT REMOVAL AND INSTALLATION

(1) Counterweight removal

- ① Position the machine on flat, firm and level ground, free from any obstruction or interference.
- ② Keep the service position.
- ③ Push down the safety locking lever securely. Move the safety lever down to lock the system securely.
- * Refer to the page 3-29 for details.
- As shown in the illustration, connect the lifting cables or slings with sufficient strength for the counterweight at the lifting eye correctly.
- ⑤ Disassemble four bolts.
- 6 Lift the counterweight enough.
- 7 Place the counterweight onto suitable support.

(2) Counterweight installation

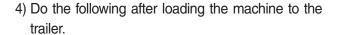
- ① Carry out installation in the reverse order to removal.
 - \cdot Tightening torque : 390 \pm 40 kgf \cdot m $(2820 \pm 290 \text{ lbf} \cdot \text{ft})$
- ♠ Move the safety locking lever down to lock the system securely, See safety locking system on page 3-29. And attach a warning tag (Do not start the engine) to the left operating lever.
- ♠ Personal injury or death can occur from a counterweight falling during installation.
 Do not allow personnel under or around the counterweight during installation.
- ▲ Use certified cables and shackles of adequate load rating. Improper lifting can allow the load to shift and cause injury or death.

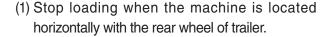


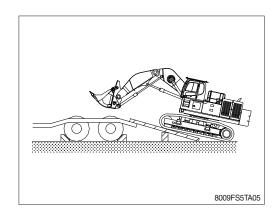
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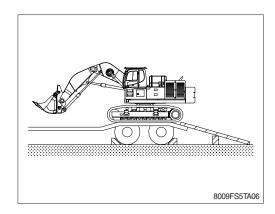
4. LOADING THE MACHINE

- 1) Load and unload the machine on a flat ground.
- 2) Use the gangplank with sufficient length, width, thickness and gradient.
- 3) Place 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.

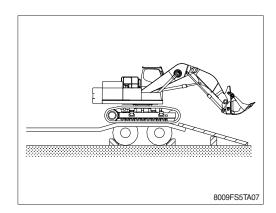




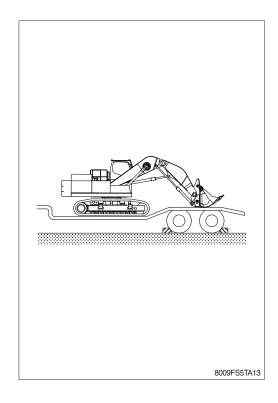




(2) Place the safety lever to the LOCK position (if equipped) after the swing the machine 180 degree.

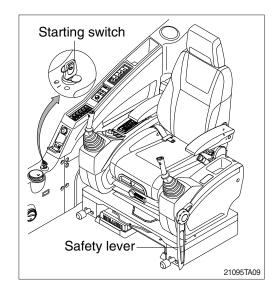


- (3) Lower the working equipment gently after the location is determined.
- * Place rectangular timber under the bucket cylinder to prevent the damage of it during transportation.
- ▲ Be sure to keep the travel speed switch on the LOW (turtle mark) while loading and unloading the machine.
- Avoid using 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.

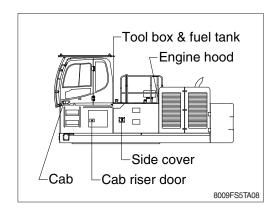


5. FIXING THE MACHINE

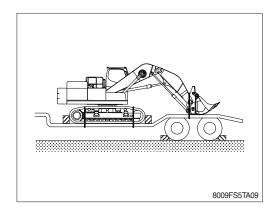
- 1) Lower down the working device on the loading plate of trailer.
- 2) Keep the safety lever on the LOCK position.
- 3) Turn OFF all the switches and remove the key.



4) Secure all locks.



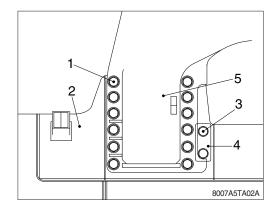
5) Place timber underneath of the track and fix firmly with wire rope to prevent the machine from moving forward, backward, right or left.



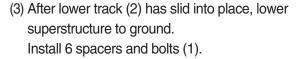
6. ADJUSTABLE TRACK GAUGE

1) LOWER TRACK RETRACTION

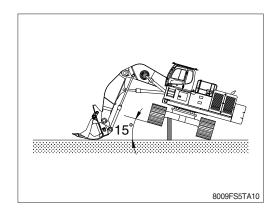
- ▲ Do not retract the track gauge except transporting purpose.
- (1) Remove 12 bolts (1), and spacers from lower track (2) to the retracted.
- * Do not loosen two bolts (3) on guide (4).

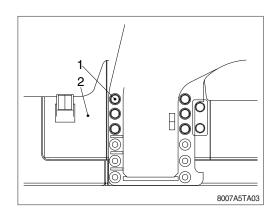


- (2) Turn superstructure so that it is perpendicular to lower track to be retracted. Raise lower track to approximately 15 degree from ground using a jack. Lower track should slide by its own weight and hit against the stop.
- ** If lower track does not slide in this condition, allow lower track that is not contraction ground to move back and forth slowly.
- ▲ The arm must be set at 90~110 degree.
 Never set it at an angle less than 90 degree.



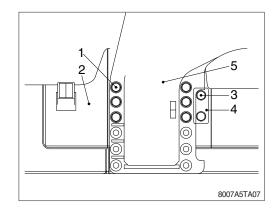
- * Tighten bolts to $280 \pm 30 \text{kgf} \cdot \text{m} (2020 \pm 220 \text{lbf} \cdot \text{ft})$
- * Repeat procedure at opposite side center frame support.
- (4) After the bolts for one side frame are fastened, repeat steps 1 thru 3 for opposite side frame.
- (5) Store remaining bolts, spacers with machine.





1) FRAME EXTENSION

- (1) Remove 6 bolts (1), and spacers from lower track (2) to be extended.
- * Do not loosen two bolts (3) on guide (4).



- (2) Turn superstructure so that it is perpendicular to lower track to be extended.
- * Do not attach cable on side frame step.
- (3) Attach one end of cable on arm and the other end on lower track. Connect it with an appropriate holding device on both ends.
- (4) Raise lower track slightly with jack and block. Extend arm gradually to side frame out until it hits stop.
- (5) After lower track has slid into place, lower superstructure to ground. Remove cable.
- (6) Install 12 spacers and bolts (1).
- * Tighten bolts to $280 \pm 30 \text{kgf} \cdot \text{m} (2020 \pm 220 \text{lbf} \cdot \text{ft})$
- * Repeat procedure at opposite track frame support.
- (7) After the bolts for one side frame are fastened repeat steps 1 thru 6 for other side frame.

