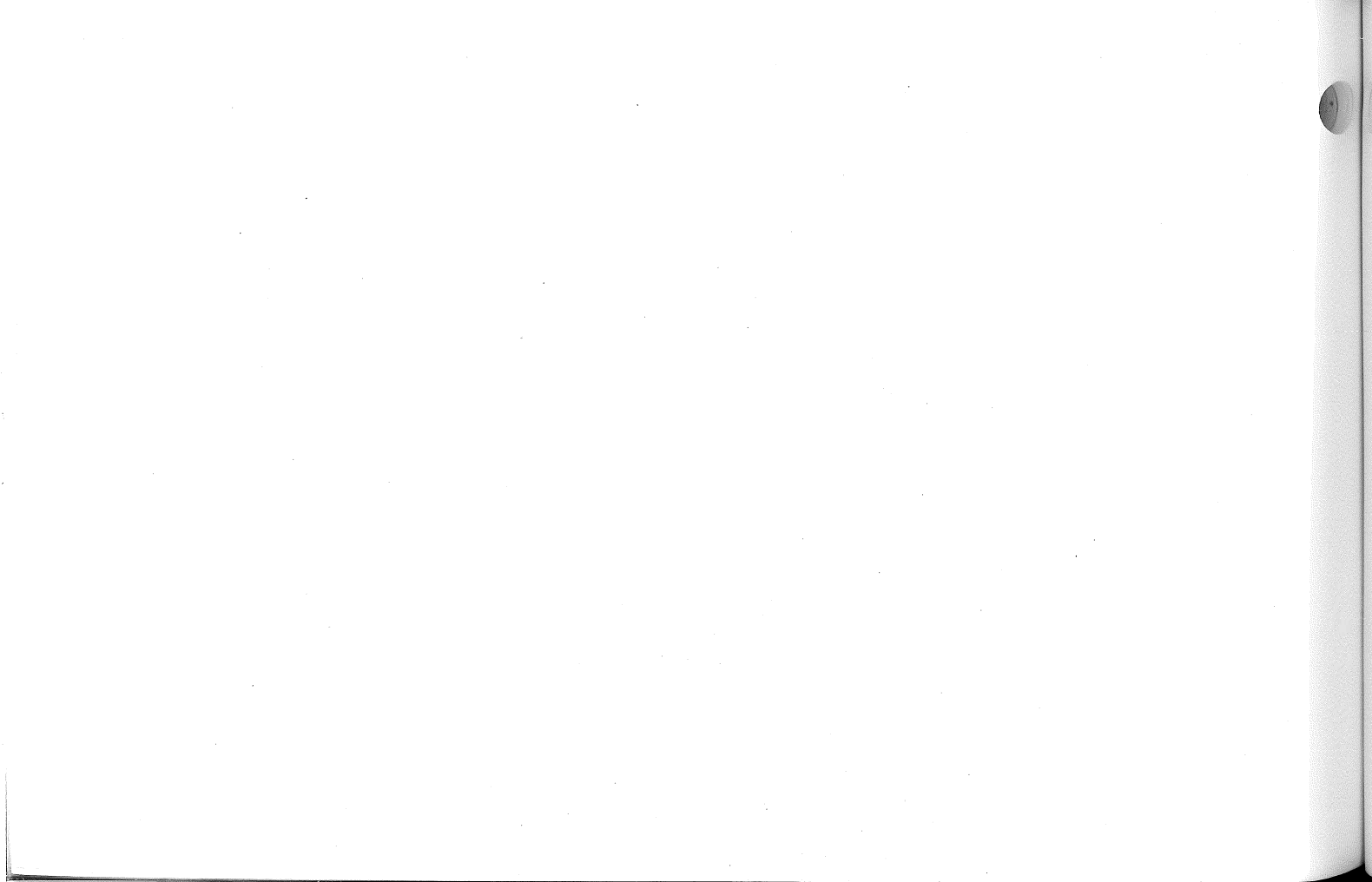


# **Towing and Transporting**

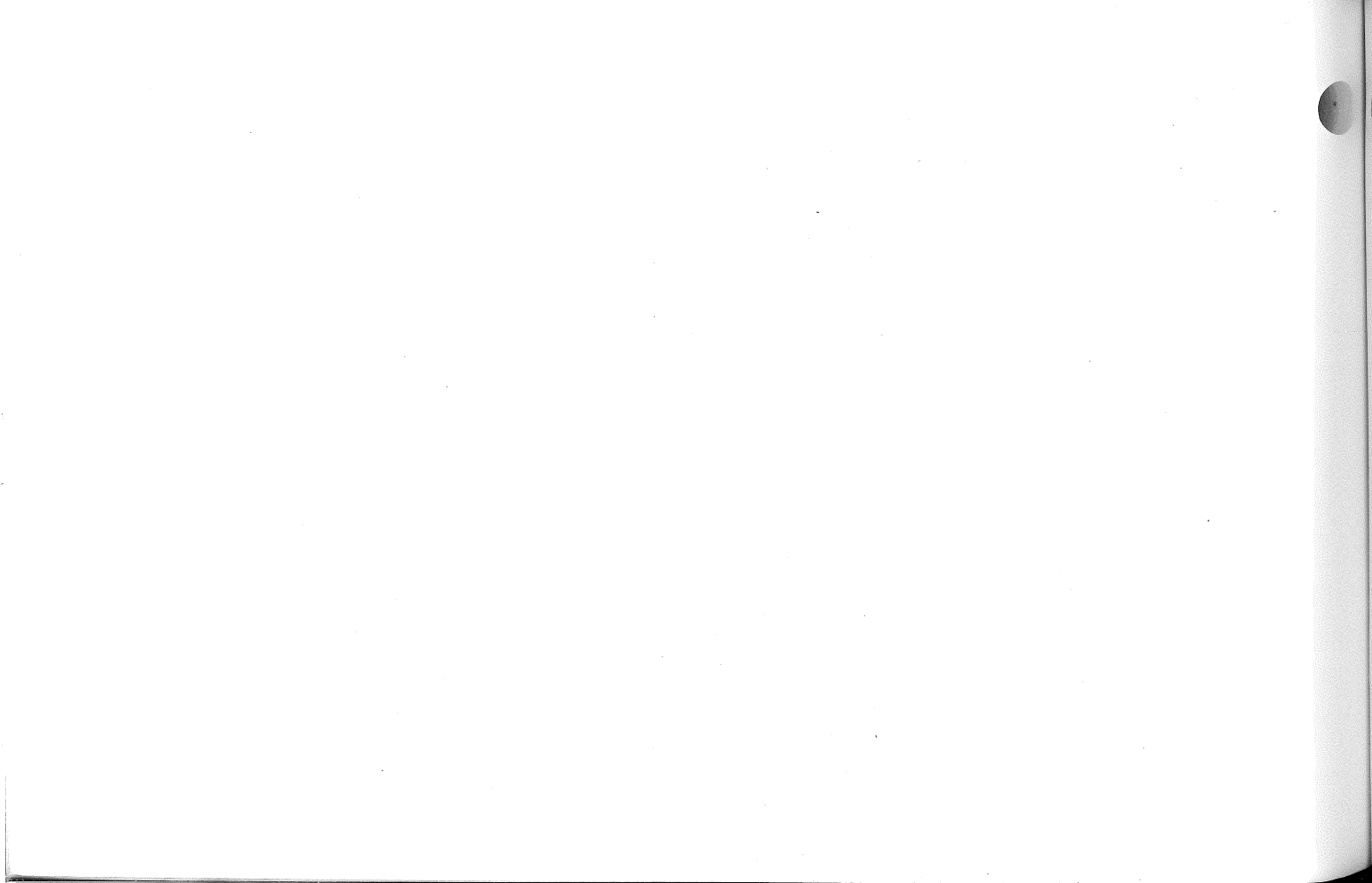
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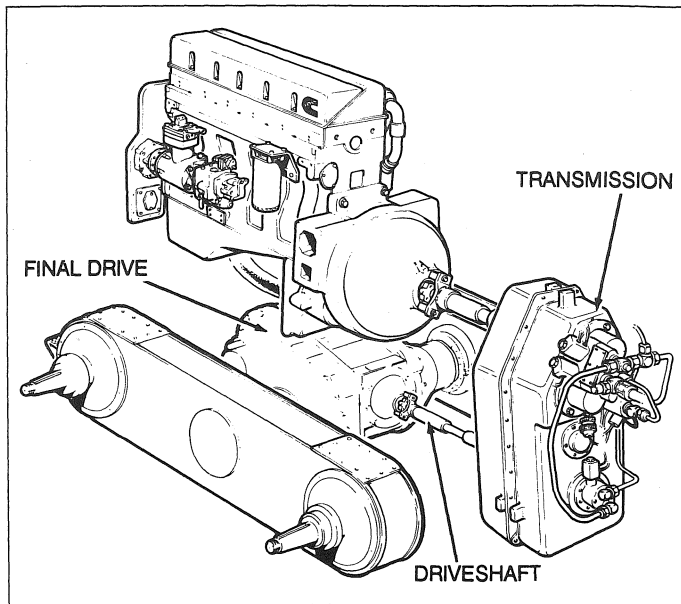
## Towing

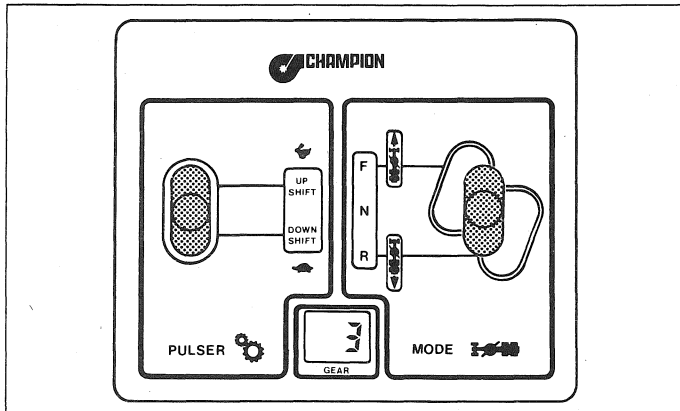
### **⚠ WARNING**

Improper towing methods or equipment could result in severe personal injury or death. Read and understand the towing instructions and precautions in this manual.

- Do not tow the grader if long distance moving is required. Transport it.
- Operator must be in the operator's seat to control steering and braking when towing the grader.
- Champion does not recommend towing the grader with the engine shut down. Braking and steering capabilities are reduced with the engine shut down.

- If the engine will not run, you must disconnect the drive-shaft between the transmission and the final drive.



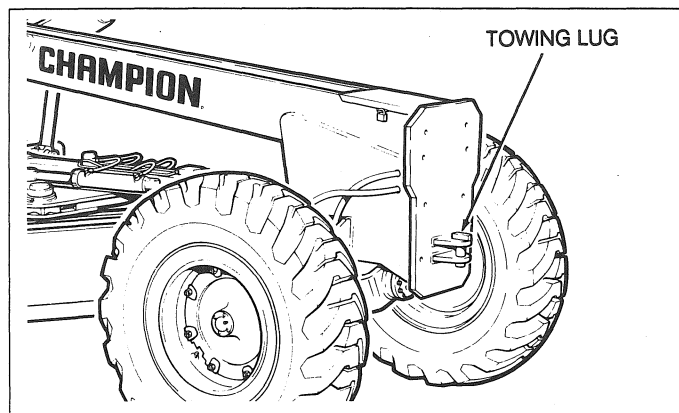


### Towing continued

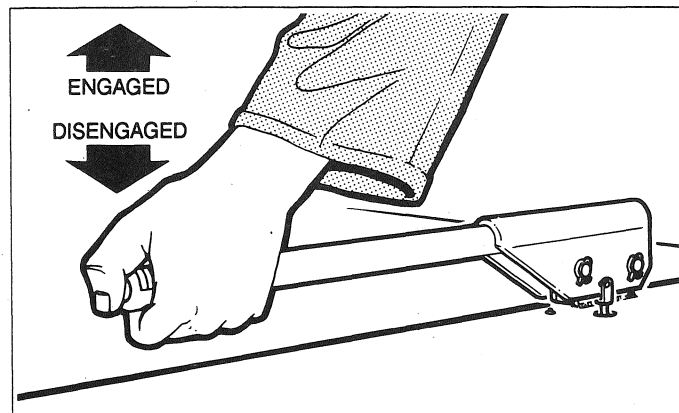
- If the engine runs, ensure the transmission mode lever is in NEUTRAL. Tow the grader with the engine running.
- If the final drive is damaged, do not tow the grader.
- Do not attempt to start the engine by towing. Damage to the transmission will result.
- Shielding of the operator against towline breakage must be provided.
- Do not tow the grader faster than 5 mph (8 km/h).
- Be sure the towing machine has sufficient braking capacity to stop the towed load.
- If the towed grader cannot be braked, a tow bar or two towing machines must be used - one in front pulling and one at the rear to provide braking. Do not tow over long distances.
- Ensure the towline or bar is in good condition and is strong enough for the towing situation. Mark the center of the towline with a flag or brightly colored cloth. Ensure that a 'slow moving vehicle sign' is attached to the rear of the grader.

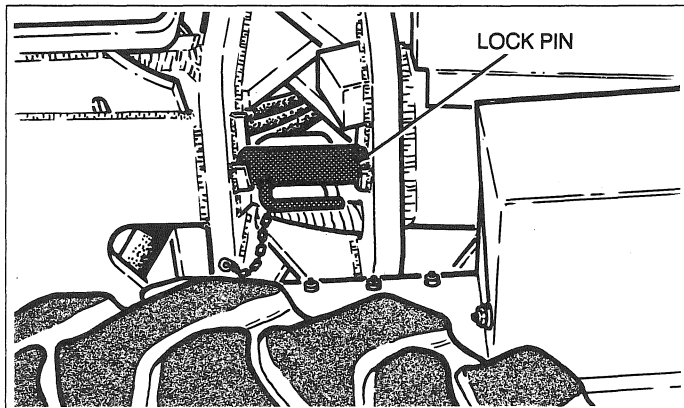
## Towing continued

- Tow the grader from the towing lug located at the front plate.
- Sudden machine movement can cause the towline or tow bar to break. Proceed gradually and smoothly.

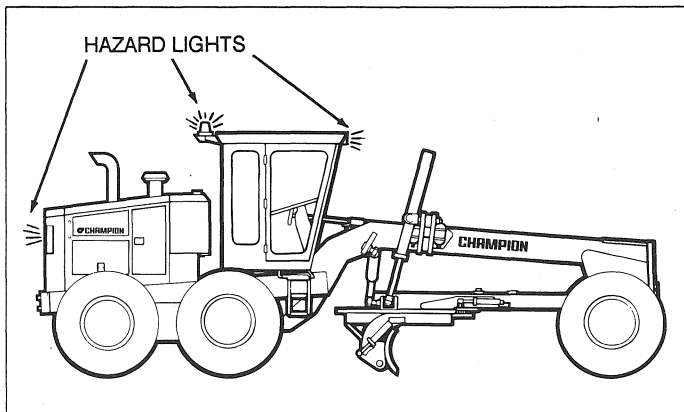


- Ensure the hand brake is working properly and is disengaged.
- Secure the moldboard and all attachments. Use chains or cables that are in good condition.



**Towing** continued

- Articulated graders must have the articulation lock pins installed.
- When turning, keep the towing angle and speed to a minimum.

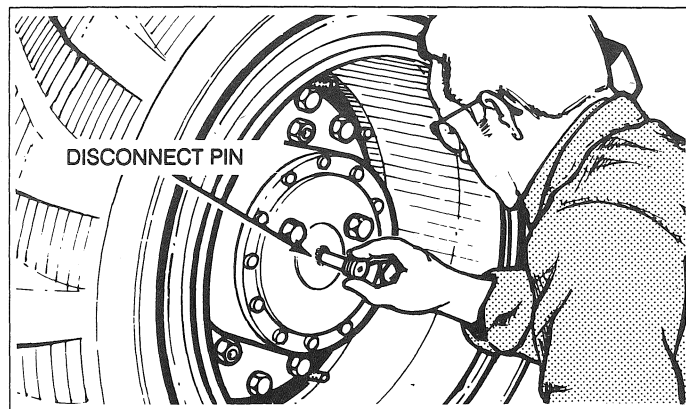


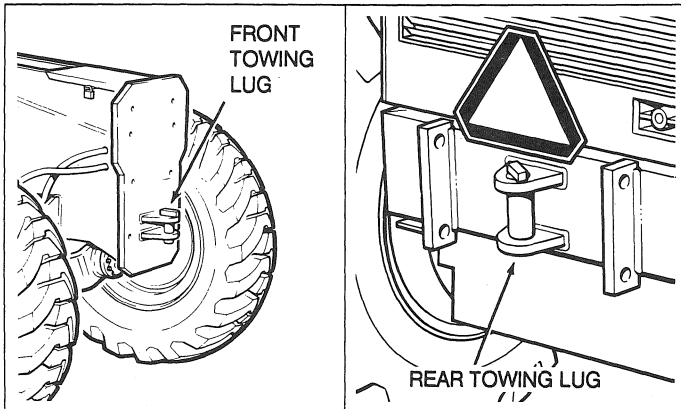
- Turn the hazard lights on while towing.



## Towing continued

- Graders equipped with All Wheel Drive, must have the disconnect pins installed in the planetary hubs prior to towing.
- Some state and local laws prohibit or limit the use of tow chains on highways. Check state and local regulations.



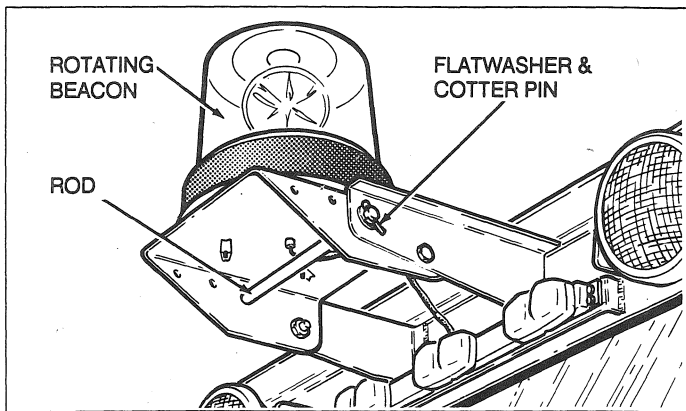


## Transporting

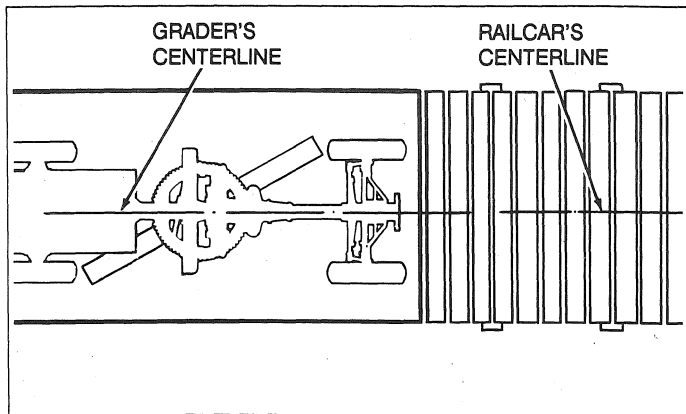
- Do not place tie-down cables or chains over or against hydraulic tubes, hoses, cylinders or valves etc. Attach tie-down cables or chains securely to the front and rear towing lugs.
- Obey all local laws concerning loading, unloading or transporting the grader. Wide load permits may be required for graders equipped with tires larger than 14.00.
- Keep the trailer bed clean.
- Use a ramp or loading dock. Ensure the ramp is strong enough and has a low angle of rise to the height of the trailer bed.
- Ensure the transporting equipment is adequate to hold the weight and size of the grader.
- Place chocks against the truck and trailer wheels.
- Load and unload the grader on a level surface.
- If the grader is an articulated model, install both articulation lock pins before loading it onto the trailer bed. **See this section** page 11-8.

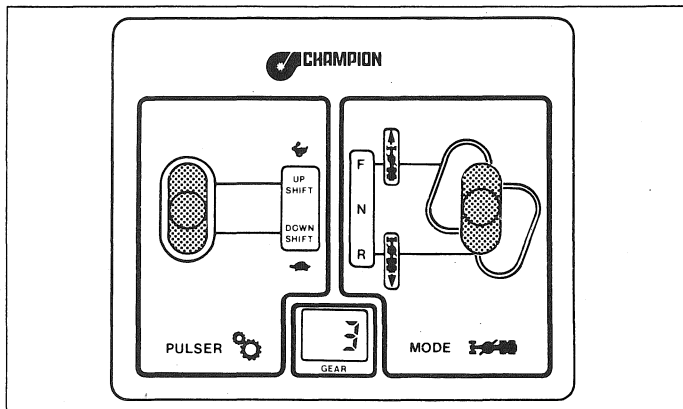
## Transporting continued

- The rotating beacon can be lowered for increased clearance. Remove the cotter pin, flatwasher and rod. Lower the beacon. Replace the rod, flatwasher and cotter pin.



- When loading the grader onto a trailer bed, drive the grader straight and centered with the width of the trailer bed. The grader's centerline must be over the trailer's bed or railcar's centerline.
- Wear seat belt when operating the grader. Refer to the section - **Driving the Grader - Seat Belt** page 8-8.

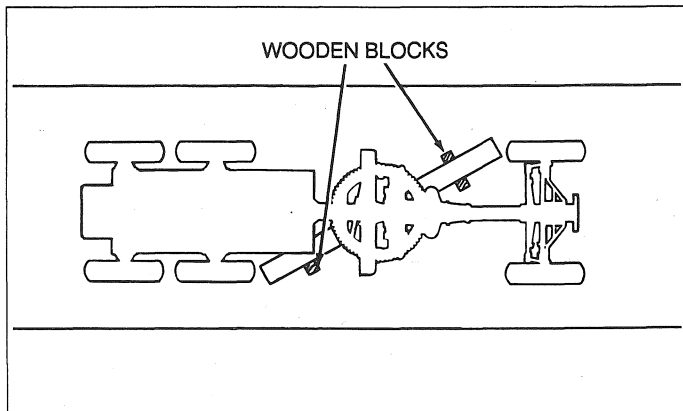




### Transporting continued

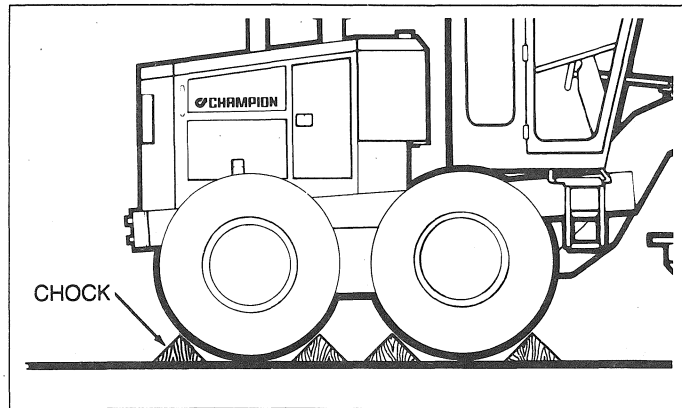
Before securing tie-down cables, position the grader on the trailer bed as follows:

1. Place the transmission in NEUTRAL and apply the hand brake.
2. Lower the moldboard lengthwise under the grader onto wooden blocks to protect the trailer bed. Do not apply down-pressure. Also lower any attachments such as a scarifier or ripper.
3. Shut down the engine.

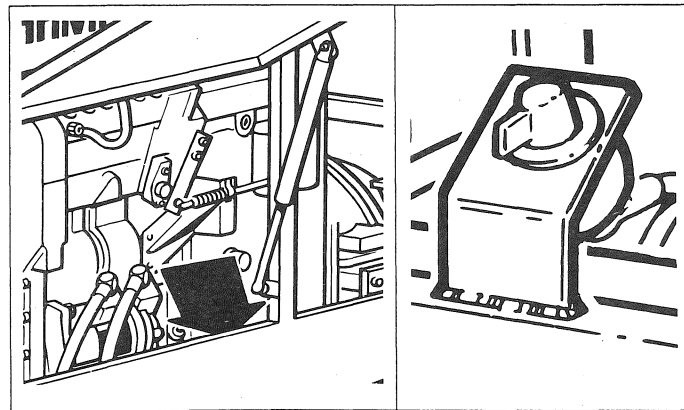


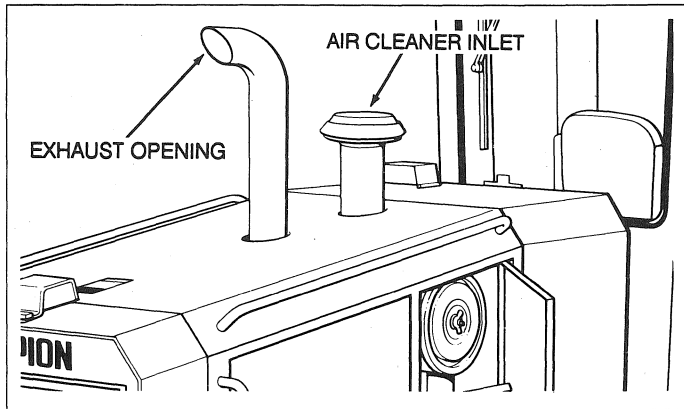
## Transporting continued

4. Install chocks at the front and rear tandem wheels. Wedge and nail the chocks in place.
5. Relieve residual hydraulic pressure by operating all the control levers.
6. Remove and retain the ignition key. Lock the cab doors.



7. Turn the battery isolation switch(es) to the OFF position.



**Transporting** continued

8. Cover the exhaust opening and air cleaner inlet with heavy gauge plastic bags and secure them in place to prevent dust and moisture entering the engine. Remember to remove the plastic covers before starting the grader.

## Weights and Dimensions

- Dimensions are for graders with standard size tires and full cab with ROPS.
- Weights are approximate. See next page for attachments weights.
- Weights and dimensions subject to change without notice.
- Subtract 12 inches from height for low profile cab.

Model	Total Weight		on Front Wheels		on Rear Wheels		Length		Width		Height	
	lbs.	kg	lbs.	kg	lbs.	kg	ft.	mm	ft.	mm	ft.	mm
710/710A	27 700	12 548	8 310	3 764	19 390	8 784	27'-8"	8 433	8'-2"	2 489	11'-1"	3 378
720/720A	30 160	13 680	9 097	4 126	21 063	9 554	27'-7"	8 407	8'-2.5"	2 502	10'-11.5"	3 340
730/730A	32 160	14 588	9 755	4 425	22 405	10 163	27'-8"	8 433	8'-4.5"	2 553	11'-0"	3 353
740/740A	34 015	15 429	10 205	4 629	23 810	10 800	28'-2"	8 585	8'-4.5"	2 553	11'-0"	3 353
750/750A	37 200	16 852	11 160	5 056	26 040	11 796	28'-2"	8 585	8'-7"	2 616	11'-2"	3 404
780/780A	40 500	18 370	12 150	5 511	28 350	12 859	28'-4"	8 636	8'-7"	2 616	11'-2"	3 404
All Wheel Drive System add:	1 511	685	1 110	503	401	182						

Wheel Weights each add: 250 lbs. (113 kg)

**Attachments Weights**

<b>Attachments</b>	<b>lbs.</b>	<b>kg</b>	<b>Attachments</b>	<b>lbs.</b>	<b>kg</b>
Push Block	700	318	A-Frame	800	362
Dozer with A-Frame	1 600	726	One Way Plow with A-Frame	2 350	1 068
Scarifier	1 550	705	'V' Plow with A-Frame	2 776	1 259
Ripper	2 100	953	Snow Wing with Masts	3 100	1 406
Windrow Eliminator	1 300	362	Snow Wing	1 400	634