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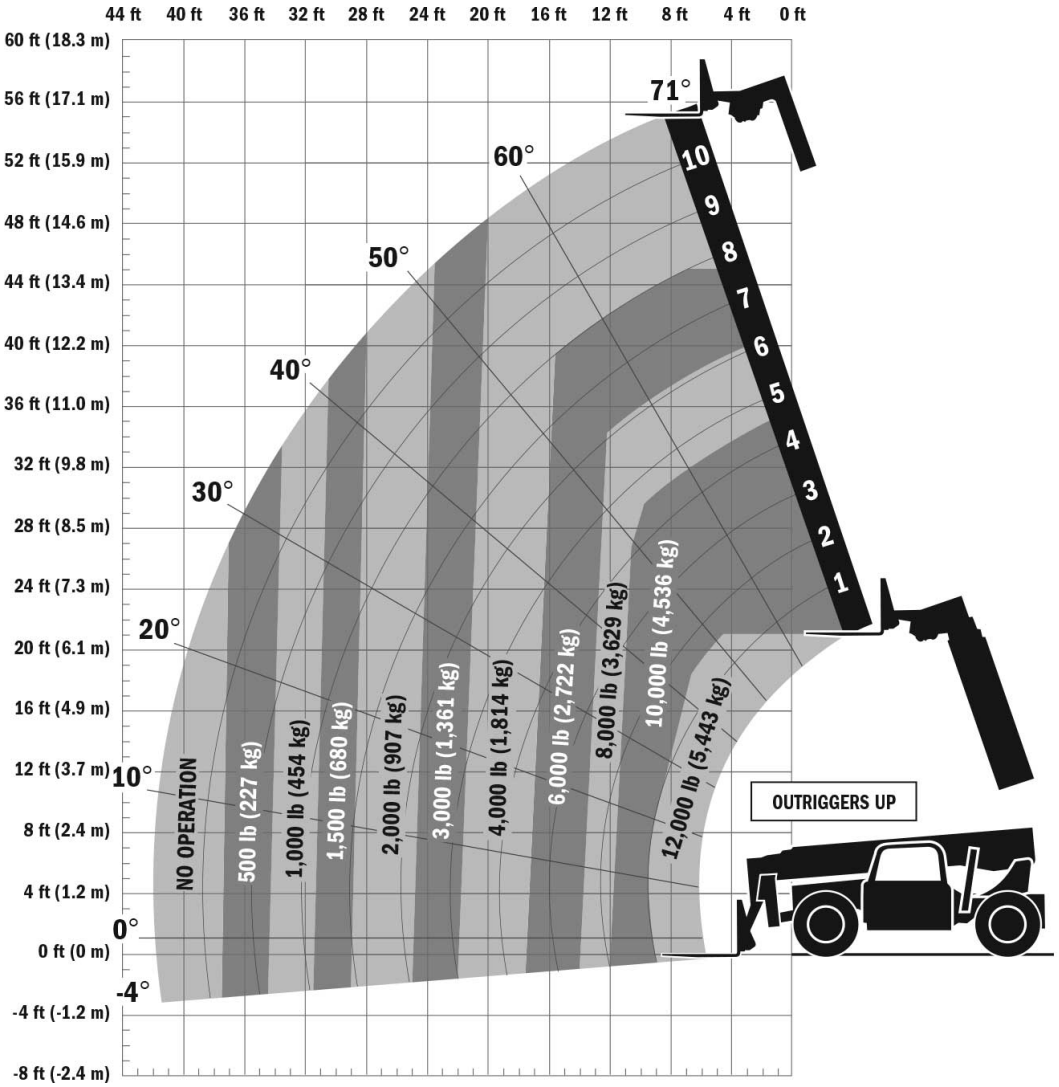
TELESCOPIC BOOM TRUCK

This type of truck is based on a counterbalance principle so the rules related to rated capacity and load centres apply.

You should inspect the capacity plate of the truck. The example given below is typical and shows that as the forks get further away from the counterbalance the maximum load which can be handled is reduced.



You must ensure that when lifting a load the boom is retracted to start with. Elevate the boom to the appropriate height and then extend to required height.

When lowering a load you must first ensure that the boom is retracted.

From this it may appear that this truck has many limitations, but this is not the case if you follow the procedures shown in this section of the guide.

The procedures already covered in the guide should always be followed *in addition* to the points mentioned in this section.

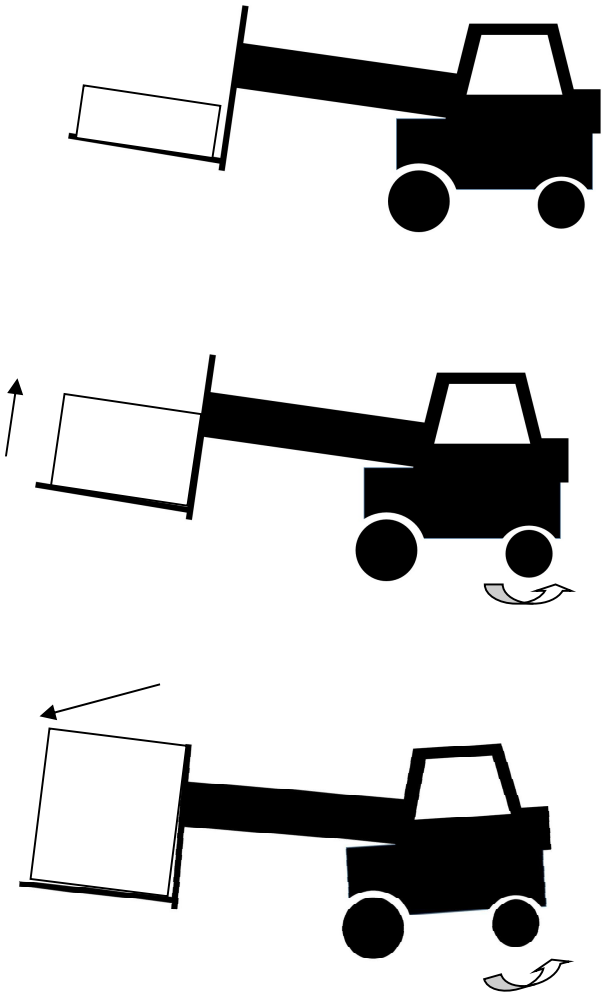
1. SAFE LOAD INDICATIONS

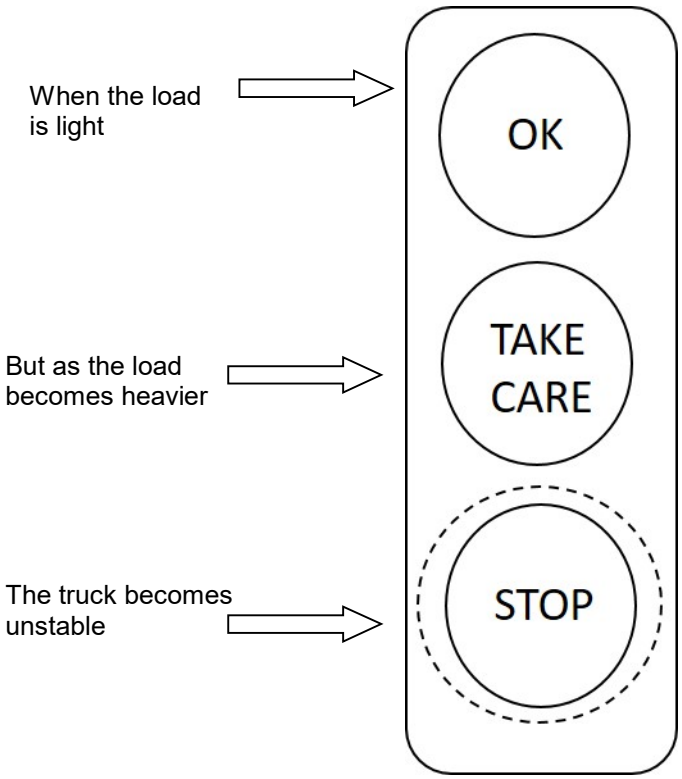
This type of truck is usually fitted with a device which tells you that the load is within its handling capacity and warns you both visually and audibly when it is becoming unstable or is unstable.

If a safe load indicator is fitted it should always be maintained in good working order and tested regularly using the operator test procedures. *Under no circumstances should it be disconnected or tampered with.*

There are four handling positions which can cause instability:

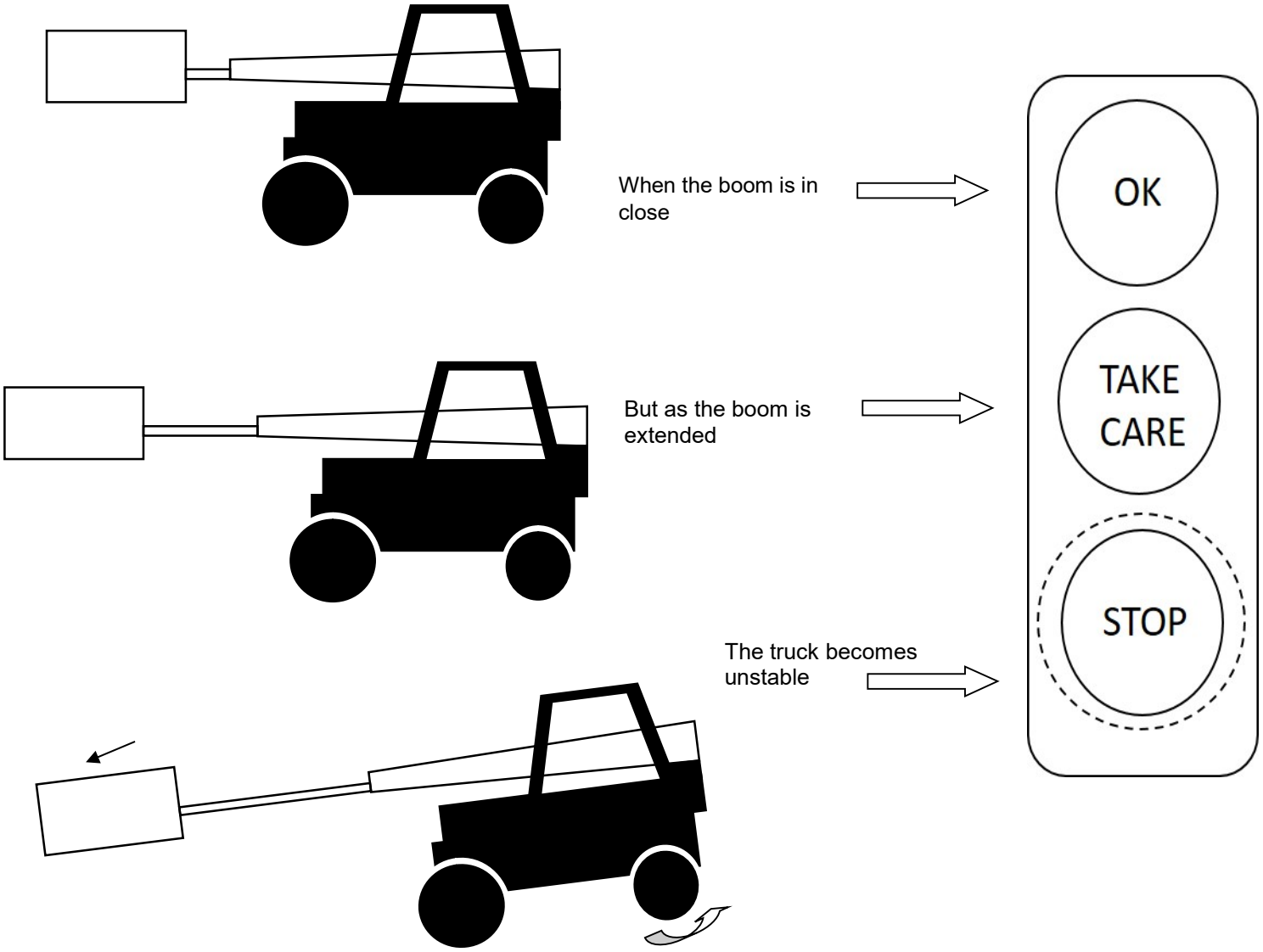
a) Overloading the boom





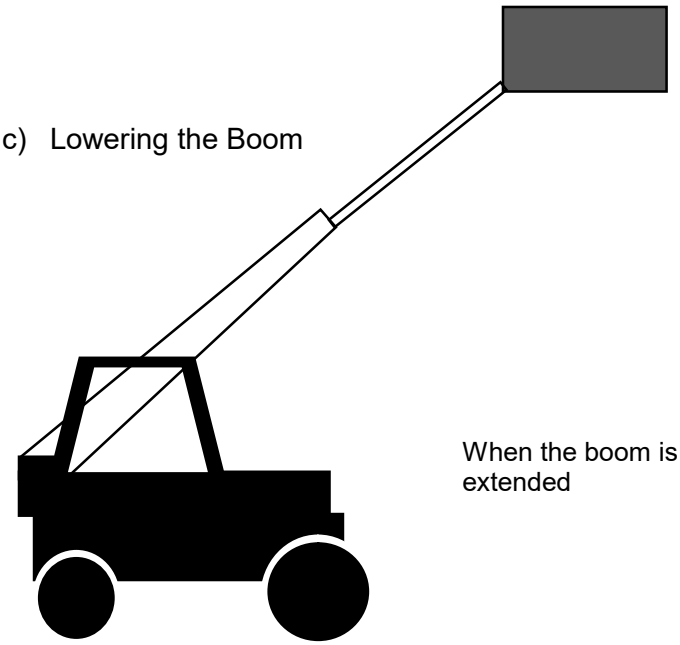
So if you want to work with the boom extended *keep the load light.*

b) Extending the boom

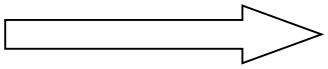


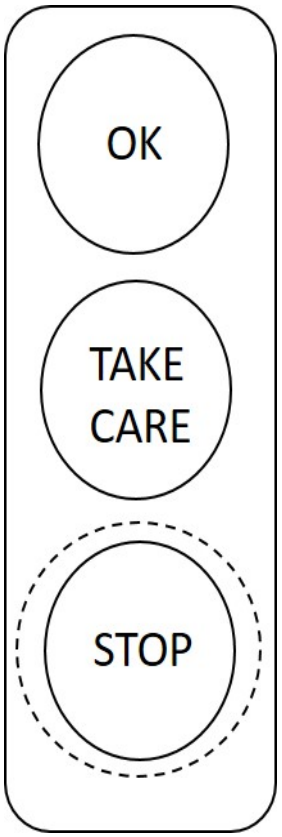
So if you are doing a job which requires extending the boom *keep the load light*

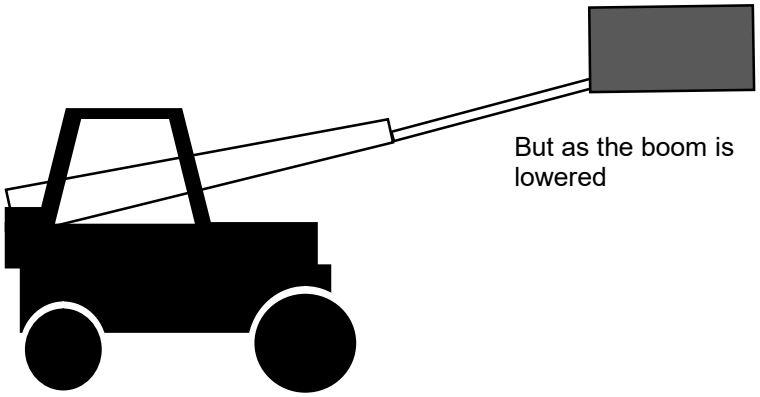
c) Lowering the Boom



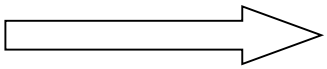
When the boom is raised and extended



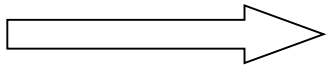


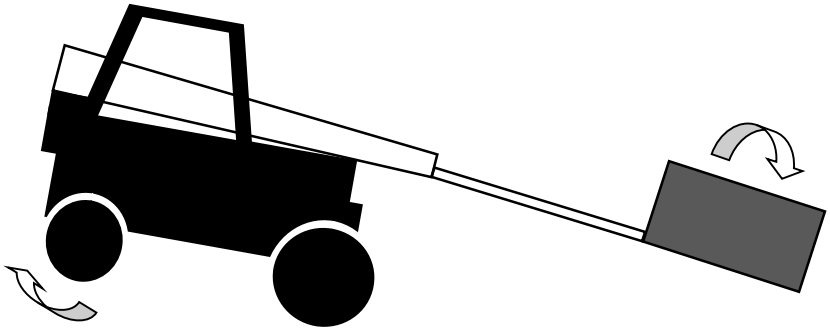


But as the boom is lowered



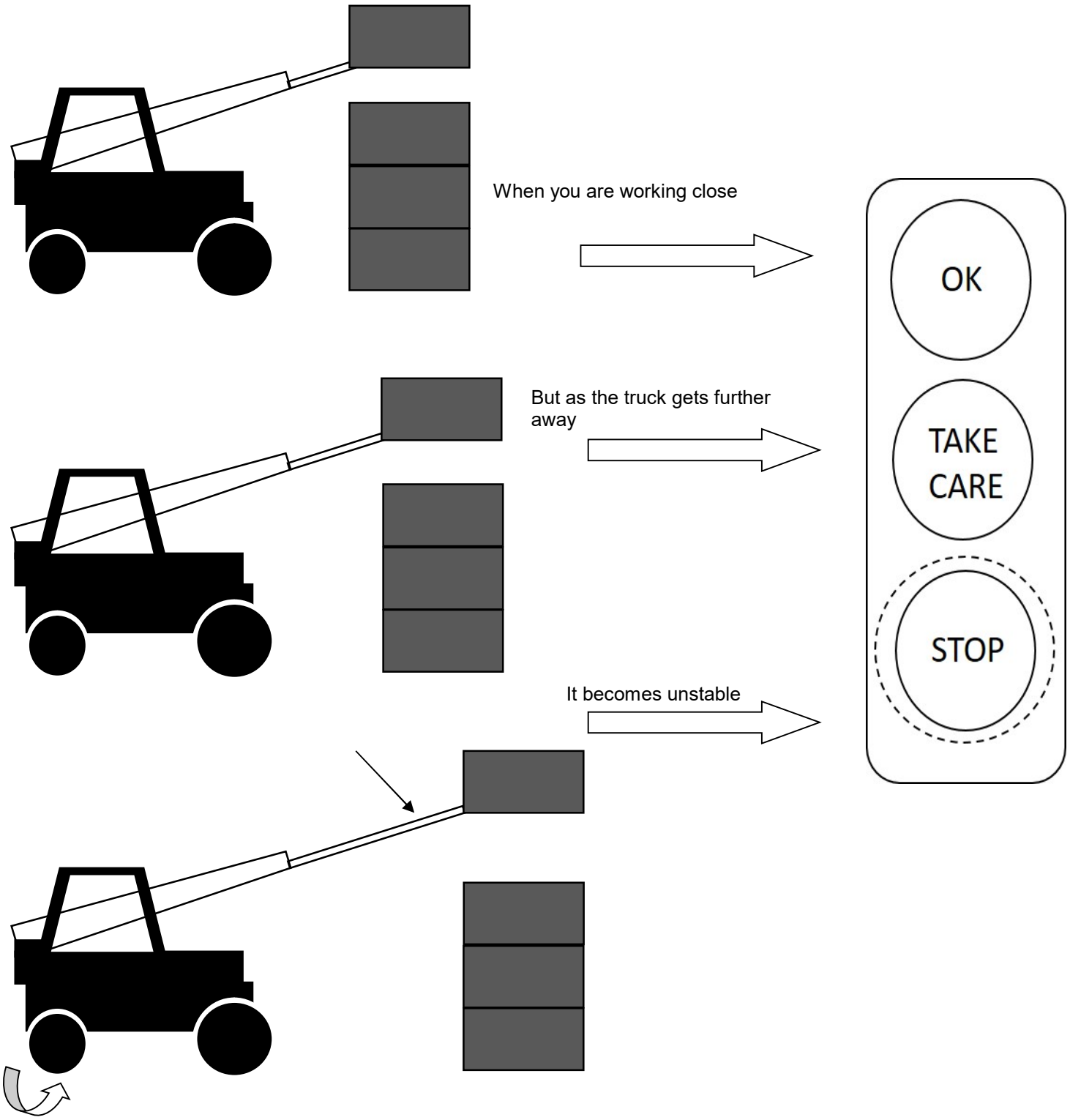
It becomes unstable





Remember: Retract the boom before lowering

d) Working too far from the job



So always work as *close to the job as possible*

The type of safe load indicator used will vary for trucks of different manufacture so check your instruction manual to discover the system for your truck.

Remember:

When Lifting	***Lift boom then extend it***
When Lowering	***Retract boom then lower it***

If you follow this procedure you should always be within the truck's capacity.

BUT DO NOT FORGET THE SAFE LOAD INDICATOR

In addition the truck must be stopped **with handbrake on and in neutral.**

Every time the boom is being:

- Extended
- Retracted
- Raised
- Lowered

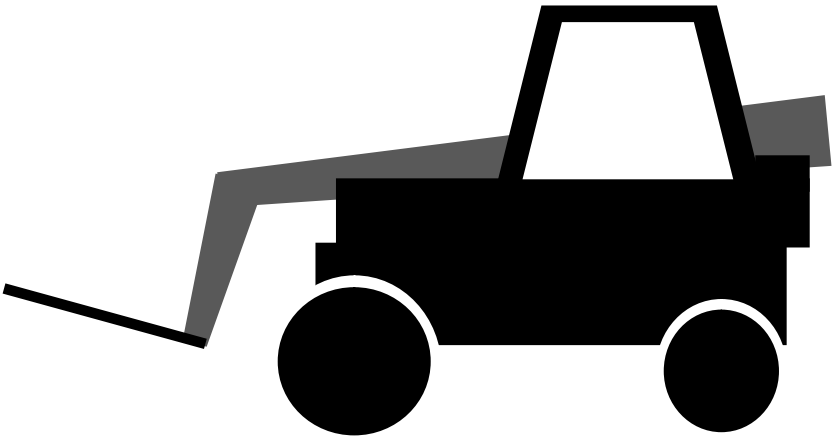
REMEMBER:

Follow the load handling procedures detailed on the next few pages.

Section 2 HANDLING LOADS

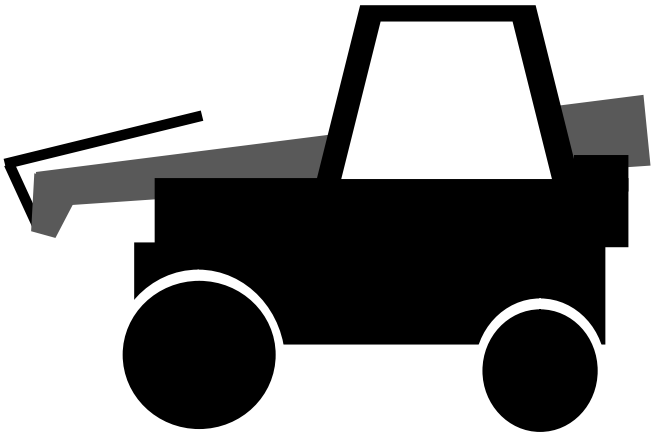
Travel position for telescopic trucks

The travel position for this truck:



Boom fully retracted and slightly raised 300mm (12 in) off ground with or without a load and the forks tilted back.

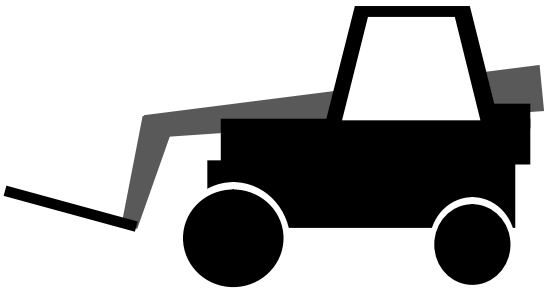
When travelling on public roads the forks must be centred with an empty pallet or folded back and secured.



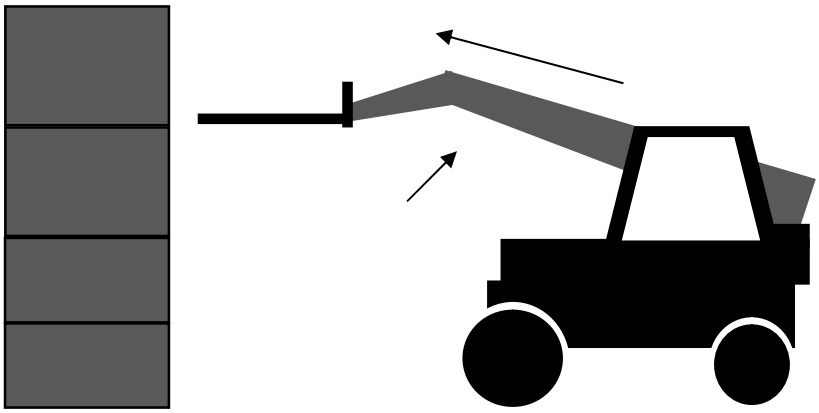
DO NOT TRAVEL ON PUBLIC ROADS WITH MACHINE LOADED because the weight of the load tends to lighten the back of the truck and could make it unstable. You may also be contravening the Road Traffic Acts (see ATB publication “Farm Vehicles on the Road”).

Destacking with a Telescopic Truck

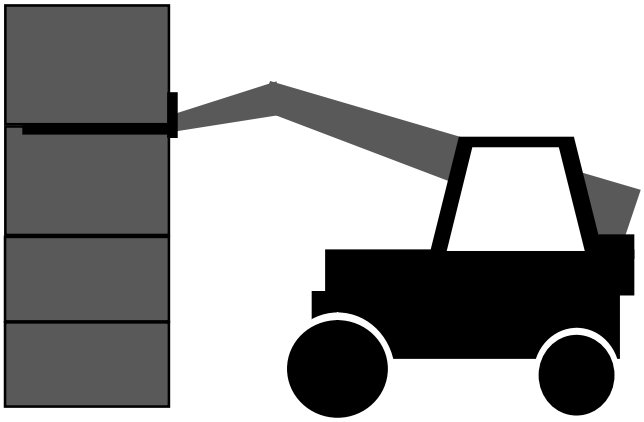
REMEMBER: STOP/START PROCEDURES



Approach load squarely with boom retracted, stop and assess load.

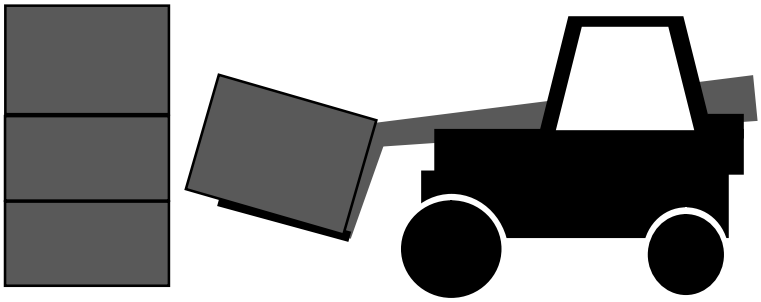


Raise boom then extend it if necessary so forks will go cleanly under load, adjust tilt at eye level.



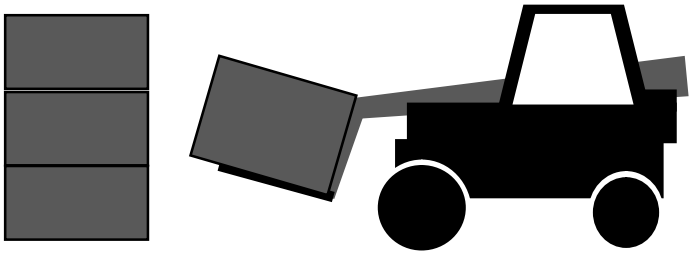
Move slowly forward so forks go cleanly under load and stop.

REMEMBER ALL ROUND OBSERVATION

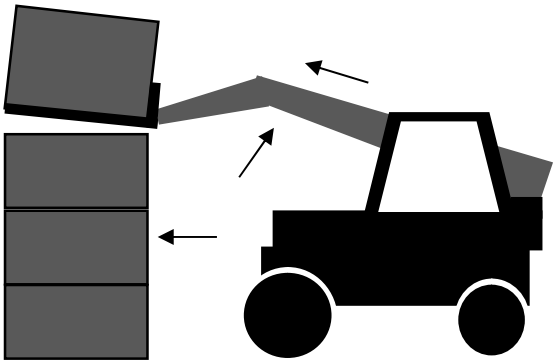


Reverse with load on, retract boom then lower boom to travel position.

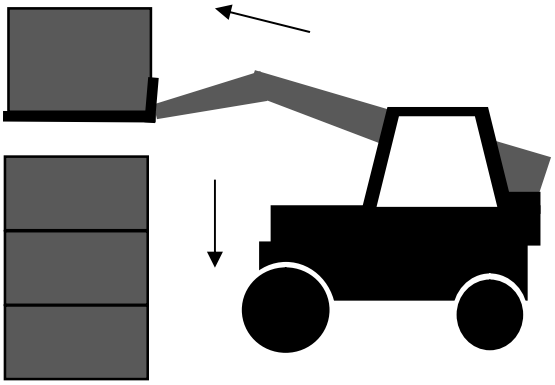
Stacking with a Telescopic Truck



Approach stack squarely with load in travel position and stop when load is about 600mm (24in) away.

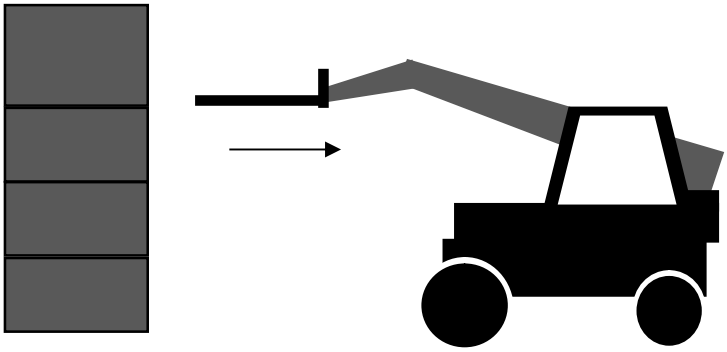


Raise load then move forward as far as you can. Stop and extend boom until load is directly over stack (IF SAFE LOAD INDICATOR GIVES WARNING RETRACT BOOM) and start new stack.

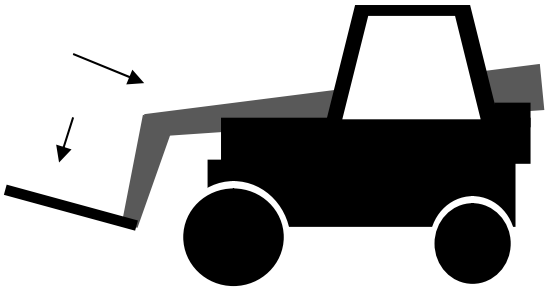


Remove tilt then lower load onto stack retracting the boom slightly if necessary to position the load.

REMEMBER ALL ROUND OBSERVATION



Move away from the load making sure you do not foul load on stack and stop



Retract boom then lower it to travel position.

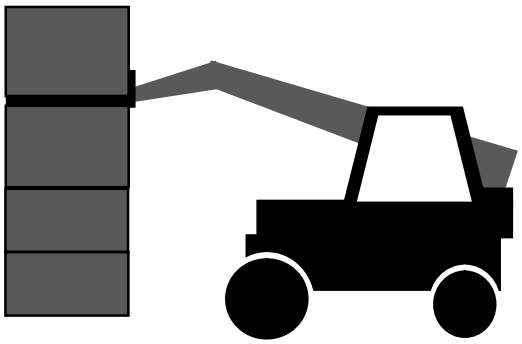
If you have to stack loads at maximum height, raise the boom fully before extending it.

Remember:

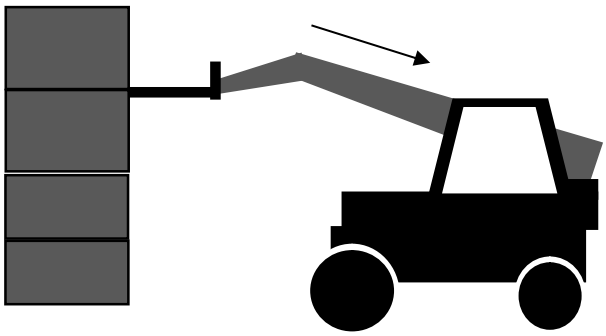
When Lifting	***Lift boom then extend it***
When Lowering	***Retract boom then lower it***

Handling loads using the boom

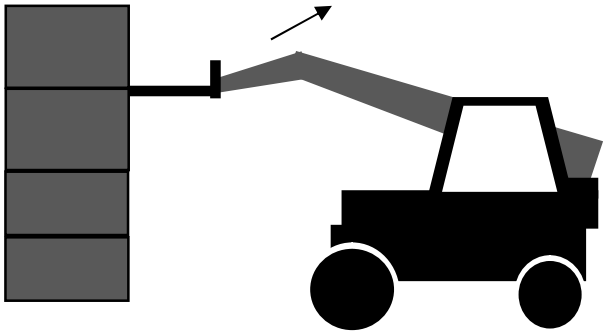
There may be some situations when you have to pick up a load or put it down using just the boom, usually if you have to work in a confined space.



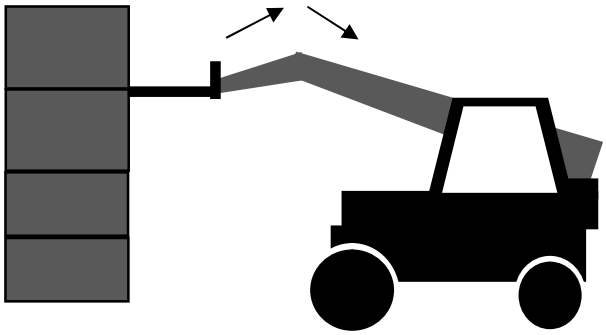
Place load on stack



Retract boom a little



Then raise boom a little.



Continue retracting and raising boom until forks are completely clear of the load.

The reverse procedure is needed if de-stacking.

Special Features

Unlike a standard counterbalance truck, the telescopic lift truck features a hydraulically operated boom to raise and lower the load.

Integral compensation rams are fitted to the boom to automatically keep the load level whilst extending and retracting it.

Never travel with the boom extended with a loaded truck

Hose burst check valves throughout the system prevent rapid lowering of the load in the unlikely event of hose failure.

The load indicator gives a visual indication of current load distribution in the following sequence:

Series of green lights illuminate as the load approaches 85% of the capacity.

First amber light illuminates as load goes through the 85% barrier.

Second amber light illuminates as load approaches 100%.

Both amber lights flash and an audible warning is heard when the load is near 100%.

Both red lights illuminate and an audible warning is heard as load reaches 100%.

DO NOT OPERATE ABOVE 85% OF CAPACITY

If the load is over 85% capacity, adjust the boom to reduce the capacity to less than 85%.

Checking the load indicator

- Stand the truck unloaded on level ground
- Set the ignition switch on. The first green light should be lit.
- With the engine running, press the test button.
- All the lights should flash and the alarm should sound.
- The load indicator must be checked each time the truck is used.

When parking the truck you should ensure the mast is fully retracted and the forks are resting on the ground.