# Trailering Horses

Rounds With Doc T "On The Road Again"

Geoff Tucker, DVM July 26, 2021

### My Story - "Tucker The Trucker"

I drive a lot.

I drive all types of vehicles from small cars to 18 wheel semi's.

I drive in all weather.

I shipped horses for a living before vet school.

#### There are 3 parts to this seminar

The Horse

The Equipment

The Drive

Some of this material is found in the topic "Trailering Horses"

https://www.thehorsesadvocate.com/horse-trailer-introduction/

## The Horse

#### Prepare The Horse For Shipping

Feed it to remove gut inflammation - only pasture, forage, water, salt for 2 weeks.

Train the horse with short rides, loading, unloading, reward.

Get Coggins test and health certificate before you need them.

Vaccinate for respiratory and contagious diseases if needed 2 weeks before.

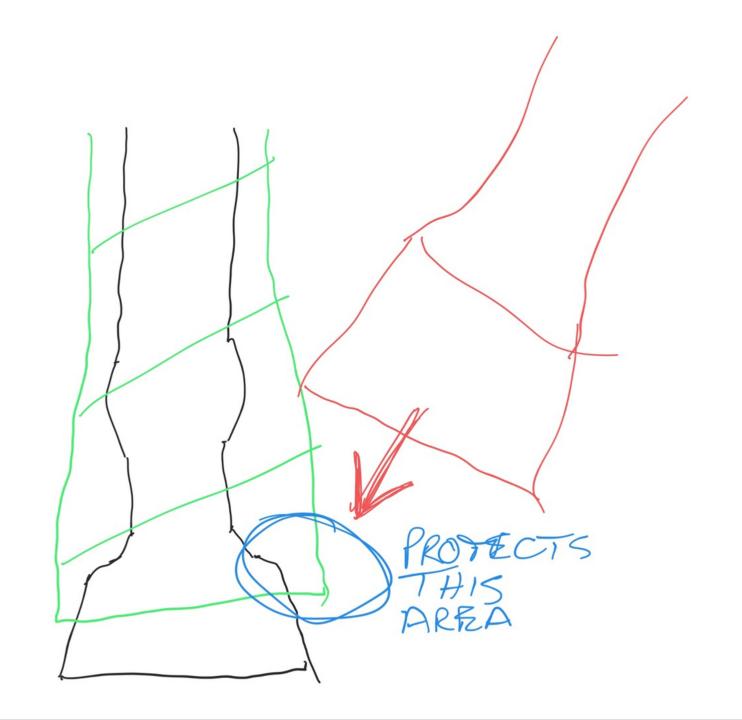
#### Prepare The Horse For Shipping

Wrap the limbs to protect the coronary band for ANY distance trip.

Isolate during shipping with strangers - nearly impossible.

Isolate after shipping from home horses - use a quarantine barn.

Lubricate the gut with oil? Stimulate the immune system? Sedate?



#### Prepare The Horse For Shipping

Provide hay to eat but this is unnecessary for short hauls.

Plan rest stops if over a few hours. Mandatory at 36 hours. Offer water.

## The Equipment

Over-buy the engine, brakes, suspension, frame.

Buy 2 axle trailers for safety against blow outs.

Buy single rear wheel truck unless weight demands a 4 wheel axle.

10 ply tires.

SINGLE WHEEL AXLE TIPE 1/2 LOAD DOUBLE WHEEL AXLE TORE TRAILER) TIRE LOAD = /4 LOAD

AXLE LOAD = 4000 LB TIRE LOAD - 2 TIRES = 2000 EACH 4 TIRES = 10.00 EACH LOAD RANGE E (10 PLY)

LOAD RANGE E (10 PLY)
80 PSI @ 3042 UB
45 PSI @ 2030 UB

ALI PRESSURE 13 COLD



35.....1700

40.....1865

45.....2030

50.....2205

55.....2335

60.....2480

65.....2623

70.....2765

75.....2900

80....3042

This means at 50 psi, your tire can support a load of 2,205 lbs. Multiply this by two tires and you can support a max of 4,410 lbs, short of the standard 6,084 rating when the tires are inflated to the recommended 80 psi. If your total rear axle weight was less than 4,410 lbs loaded up with your trailer hooked up then you should have had no troubles. If it was more than 4,405 lbs, then your tires may have been overheated and could be damaged.

You can stay at 50/50 when empty but when loading up, you must air up your tires enough to cover the axle load you will be carrying. Best to go to a scale and see what the rear axle weighs and pick the correct pressure from there. You shouldn't run any more pressure than you need so if 70 psi covers your rear axle load (5,530 lbs), then that is all you need to run when loaded.

AIR AIR LOAD

AIR LOAD

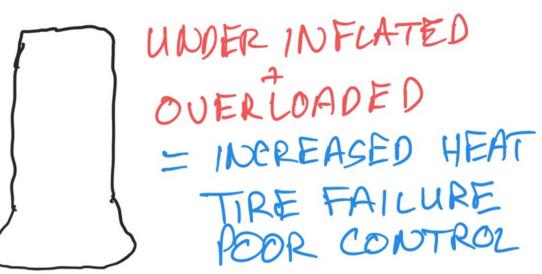
WHEN LOAD = AIR PRESSURE + STRUCTURE THEN TIRE IS FLAT ON ROAD = MAXIMUM TRACTION + MINIMUM HEAT

OUER INFLATED

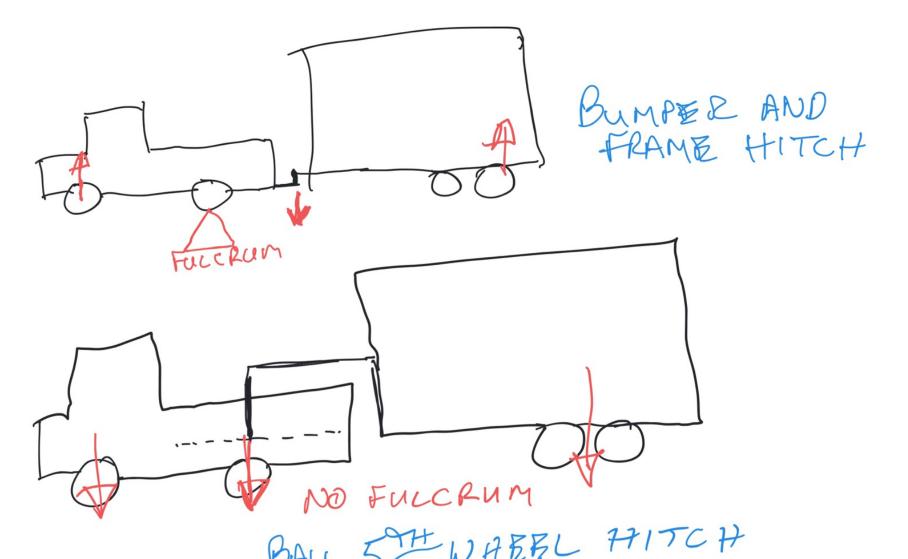
+
UNDER LOADED

= POOR TRACTION

ACCIDENTS



Bumner v frame v hall or 5th wheel - nreferences and expense



Length of trailer - longer is easier to back up and easier on horses.

Step up v loading ramp.

Number of doors (walk through v back out).

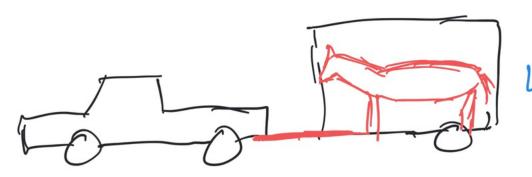
Slant stall v straight stall v box stall.

Brakes (hydraulic v air) and brake controllers (electric inertia)

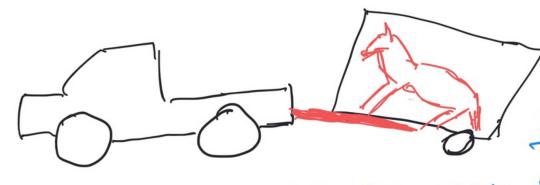
Anti-sway bars for short trailers.

Leveling the trailer with the truck.

Forward v backward facing horses - loading the limbs.



LIMB WEIGHT SAME ASIF ON GROUND.



LIMB WEIGHT IS THEAUIER ON HIND LIMBS WHEN TRAILER TILTS UP.

HORSE IS ALWAYS FALLING BACKWARDS AND IS WORSE WITH ACCIECTER ATTON.

TRAILERS TIPPING FOR WARDS DOES THE OPPOSITE LOADING THE FRONT LIMBS AND IS WORSE WHEN BRAKING.

## The Drive

Keep registration, insurance, tow service up to date.

Take a ride in the back (if legal).

Practice hitching up and driving. Go empty to get the groceries.

Double check your safety. Check oil, tire pressure, and lights BEFORE loading.

Double check your hitch connection. Attach safety chains.

Breathe. Overcome your fears. Practice.

Drive like you own it but respect it and others you share the road with.

Accelerating - smooth, anticipate where you are going.

Braking - smooth, anticipate where you are stopping. Roll foot. Release at end.

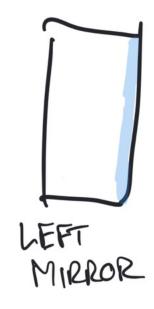
Curves - smooth, anticipate where you want to be in the future, light hand on the wheel.

Backing - slow, back to the driver's side, look before backing, get out often, take your time, breathe, turn towards the mirror with the vision of the trailer.

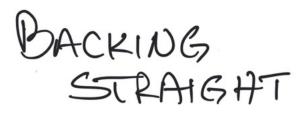
F=MC FORCE = MASS \* (DE) ACCELERATION IFAHORSE WEIGHS 1100 LB (500 KG) THEN FORCE = MASS AS LONG AS

THE TRAILER DOESN'T ACCELERATE OR DECELLERATE (FAST STOP OR CRASH)

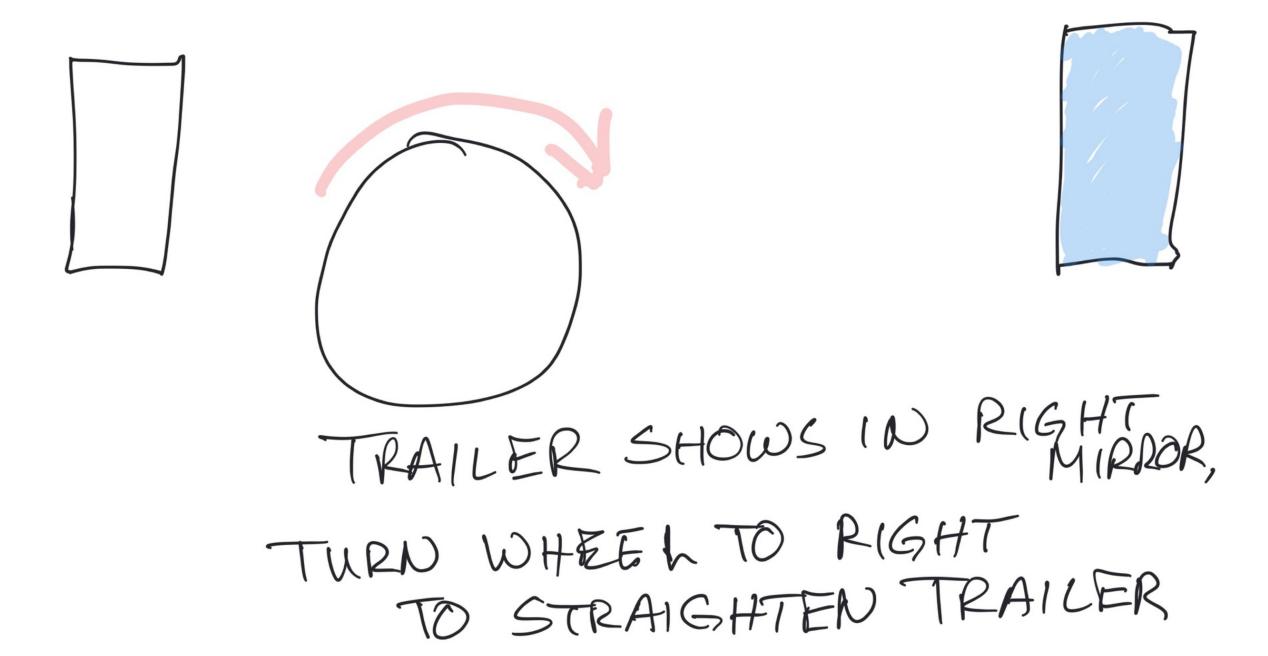
SUDDEN CHANGES IN SPEED = DAMAGE/STRAIN TO HORSES

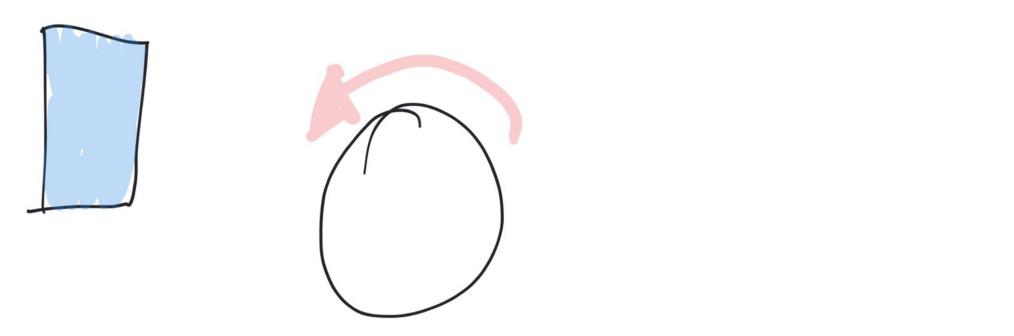












TRAILER SHOWS IN LEFT MIRROR, TURN WHEEL TO LEFT TO STRAIGHTEN TRAILER

On the road break downs - phone, have help have a tow service for trailers.

On the road emergencies - phone, vet numbers, farm numbers.

Emergency trips (hospital, weather, disasters) - get all things in order, store water, hay.