Remote control advantages to operating a car hauler.

1. Faster load and unload times
2. Reduction in equipment damage
3. Reduction in freight damage
4. Driver safety
5. Reduced environmental impact.

Thank you for your comments on our recent post featuring our new remote-control system. Before covering what this remote system is capable of doing and why we feel it is a game changer, we will answer your questions and/or concerns first.

1- What if the operator accidentally hits one of the controls on the remote- “Pocket crunching a car”?

This remote system is designed to be used in “life safety environments” such as cranes and forklifts that work around people. It is an E-stop remote and has four fail safes built into it.

A) The remote sends a signal to activate the valve. If the valve loses the signal, it defaults to neutral or the off position.
B) The remote has two joysticks on the front that the operator uses to run decks up and down as well as horizontally (Transfer deck and skid boxes for example). At the same time, the operator is also depressing a button on the back of the remote that makes the joystick on the front “live”. Without depressing this button, the joysticks will be inactive.
C) The remote has a motion sensor built into it. While it allows you to operate when on the move, if you’re not operating it when in motion, the remote quickly defaults to “pause” and functions are inoperable. One quick button push resumes operations.
D) Finally- The remote is equipped with an “E-stop” that the operator can push to cancel all operations.

2- “More to go wrong.”
Boydstun’s new remote system has simplicity built into it. Although the Curtis Wright valve has an assist, it still operates manually at any time, including while in remote mode. If the remote system becomes inoperable, the operator simply operates the truck like they always have using the manual valve. There is only one control cable (1/4” diameter)- no other exposed wiring. This cable is sealed and

protected, but if needed, it is easy to replace and will not require any expertise. The total weight of all the hardware added is less than 25lbs including the remote itself.

3- "No proportional control"
   Although Boydstun's new system has adjustment capability, it is not needed. We will publish videos moving forward that will demonstrate why- even with the heaviest vehicles. Remember- you still have manual control of your valves if you want, but once you run this system, you probably won't use them.
4- "How do I keep from losing the remote?"
   The remote has a "Docking\charging station". If the remote is not in the docking station, a red light and warning buzzer installed in the "A" pillar will alert the operator that they have left the remote somewhere other than the docking station.
5- "Will the remote system have the same lifting capability?"
   Yes.
6- "Why would you want to have a remote control on a car hauler?"
   Its 60 yards to walk around a car hauler. There can be up to 18 deck securement pins to disengage and reengage, 9 on each side of the car hauler. Yet there are only two manual hydraulic valve stations- one on the truck head rack and one on the trailer- both on the passenger side.
   From these two hydraulic stations, some hydraulic actuations (deck movement) can be difficult to see, such as the head rack tilt, transfer deck, #3 lift,# 5 lift, skid box extensions and #9 lift. When loading, getting the right angle to see clearances between vehicles can be difficult from these two hydraulic stations. This can force the operator to make small adjustments at the valve bank while walking back and forth between the valve station and deck they are adjusting. Once they are comfortable with the clearance between vehicles, they may still need to adjust again after checking overall height and again while setting pins. Adjustments all need to be made at the Valve Bank Station- causing the operator to constantly move.
   Remote control gives the operator hydraulic control anywhere they are- eliminating unnecessary moves and possible wrong moves leading to damage.
7- "What else can the Boydstun Remote control do?"
   Boydstun's remote control will also operate,
   1) Boydstun's extend and dump valves on both the truck and trailer.
   2) Load lights
   3) Hazard and strobe lights
   4) EPTO
   5) PTO

6) Remote start.

Boydstun's remote system-environmental impact.

Most car haulers today are equipped with both a PTO and an EPTO. With cars and trucks getting heavier, hydraulic cylinders have grown in size on some decks (top of trailer for example) to lift these loads. This requires more volume which decrease the speed at which the deck travels. The PTO becomes the primary pump to handle this demand that is really only for three sets of cylinders- but because switching back and forth between the EPTO and PTO requires multiple trips back and forth between the truck cab and valve banks, operators usually don't do this. They can use a truck that has "auto start" installed at the valve banks which starts the truck each time they need to use the hydraulics. Then a timer turns the truck off. However, this means they are still using the truck engine to load and unload the entire truck.

Boydstun's remote will only start the truck when lifting those three sets of cylinders. Once lifted, the truck turns off. To lower those same set of three cylinders, the remote system switches to using the EPTO- less volume needed, and gravity assists, so speed is not an issue. The remote system continues to use the EPTO with all remaining decks that have smaller cylinders and less volume demand. The truck motor is now used very little for hydraulic demand. This can be taken to another level using dual 24v EPTO. Again-the remote will only run both 24v EPTO's for heavy demand- then using only one 24v EPTO for the rest of the load\unload process- eliminating the PTO altogether and the problems a PTO can add to truck operation. Trucks would not need to idle, saving fuel and cost associated with burning fuel.

Boydstun will be posting videos of examples showing these functions moving forward. With reduced operating costs the Boydstun remote will provide you, why wouldn't you use Boydstun and Boydstun's remote system?