

A/M710

Developed by Deputy Chief Corinne Piccardi



710

CABIN JOHN PARK
VOLUNTEER
FIRE DEPARTMENT



MONTGOMERY COUNTY, MD

WWW.CJPVFD.COM

*The best we can
could expect of all*

A710

- Stock # 03-17-5576
- 2017 Dodge 5500 Heavy Duty with Horton box
- GVWR 18 000 lbs
- 6.7 L Cummins Turbo Diesel engine
- Max speed 68mph
- Height 9' 4"
- Width 9' 3" mirror to mirror
- Length 26' 5"
- Fuel tank 52 gallons
- Tire Pressure – 95psi
- Anti-lock hydraulic disc brakes (No Air brake test required)

Under the Hood



Transmission Fluid
Dipstick

Brake Fluid
Reservoir

Oil Dipstick

Under the Hood



Under the Hood

- Daily Check
 - DOT Check out
 - Check dash instrument panel for any warning messages
 - Liquid Springs – module cycles through and no leaks
 - Stryker Power Load and Cot – is it powered and operating?
 - Check Intellitec for any warning messages
 - Check HVAC is operating and M tank level through Intellitec
 - Usual bag, equipment checks

Fluids

- Brake Fluid – visualize both sides of the brake reservoir and if low needs to go to CMF. Fluid only to be added by CMF.
- Oil – 15W-40 which is the same oil as for the engines.
- Coolant – OAT Formula
- Transmission – ASRC Automatic Transmission Fluid
- Power Steering – ATF + 4

Warning Messages

- Oil Change Due – this will display every 15 000 miles or 500 hours or 6 months, whatever comes first.
- Perform Service Indicator – emissions maintenance is required.
- Engine Malfunction Light – if flashing, stop vehicle immediately and service is required.
- Other warning lights include for batteries not charging, oil pressure, transmission temp, ABS, AirBags, 4wd and electronic throttle – if lights come on and stay on, cycle the engine and if they continue to stay on then vehicle requires service but can be driven.



Start Up Procedure

Pull charging cord out – no auto eject

- This

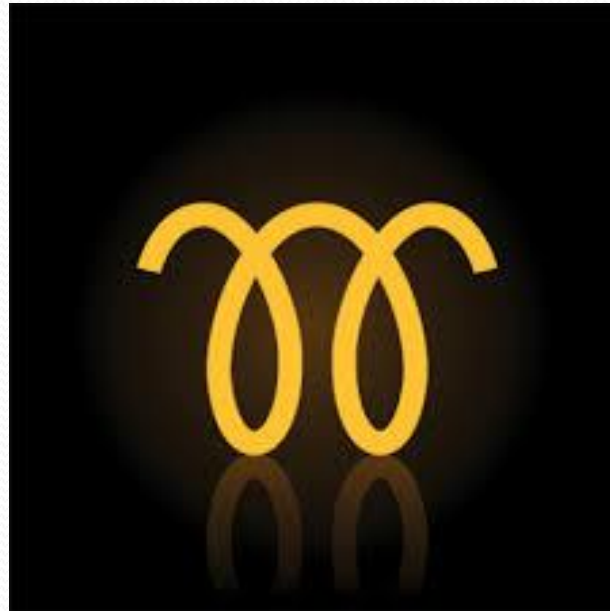


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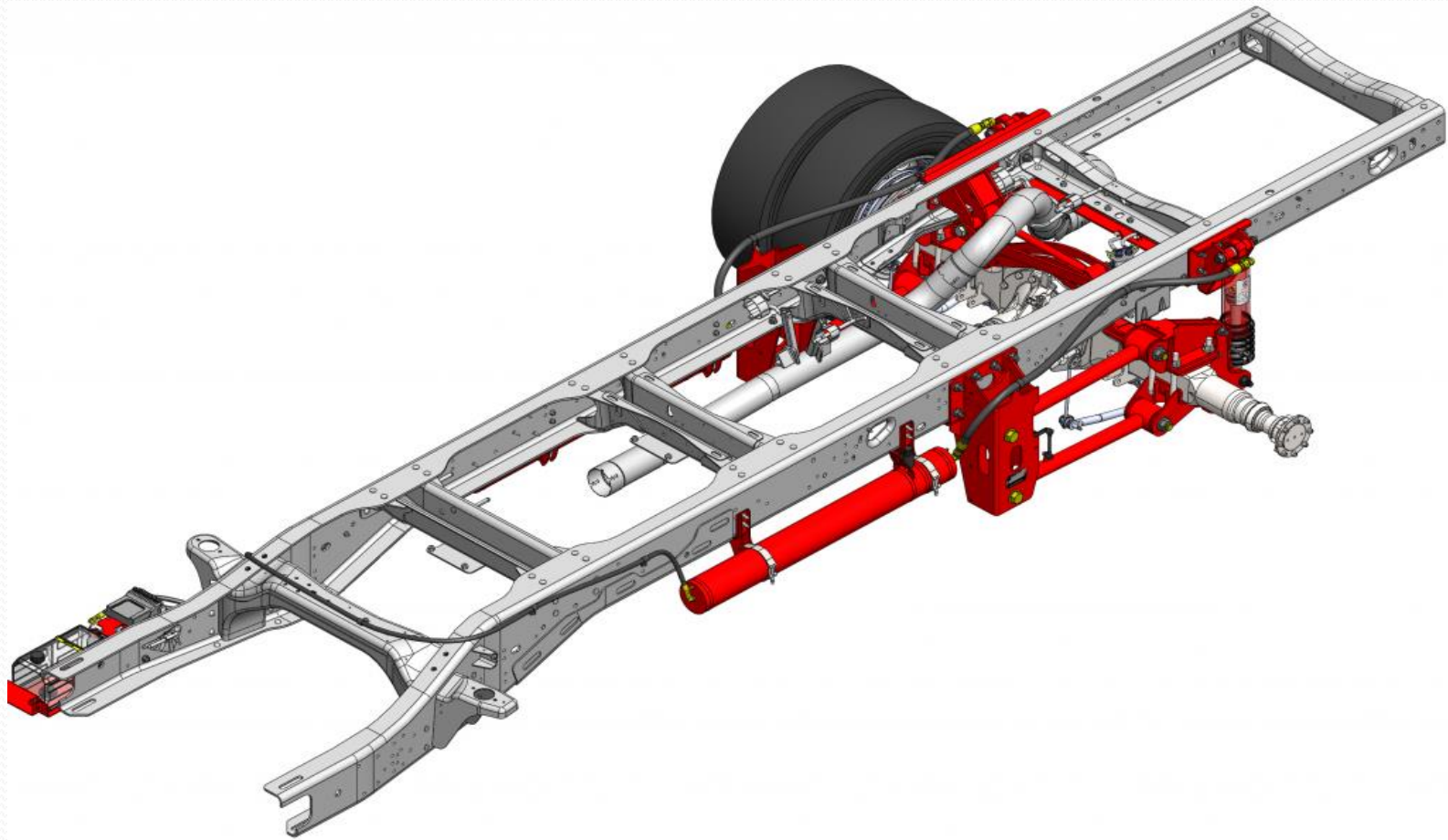


Cold Start

- Wait for Start Icon to extinguish before engaging ignition – should only take a few seconds. Will be longer in colder weather.
- Found on Instrument Cluster

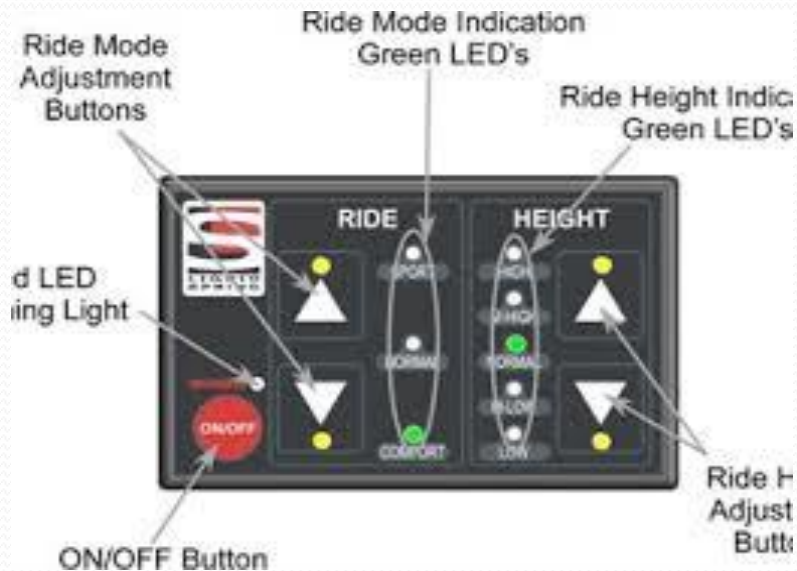


Liquid Spring Suspension



Liquid Spring Suspension

- Control Module
 - Should remain in **NORMAL** setting
 - Located to left of steering wheel



Liquid Spring Suspension

- Check Out
 - Check the suspension system to be sure it is fully operational. After starting vehicle, verify all LED's on the driver display flash briefly, then the Green Ride Height and Ride Mode LED's are lit and the Red Warning LED does not stay on or flash. Verify the four Yellow LED's are lit when the steering wheel is centered. Verify that they system is at NORMAL ride height, with a steady green LED. If the Driver Display indicates a blinking ride height LED, allow the system to complete leveling as indicated by a steady green LED. If LOW or HIGH height is shown with a solid green LED, use the arrow buttons to raise or lower the suspension to NORMAL height.
 - Visually inspect struts, hoses, and fittings for signs of leakage. For leakage resulting in fluid pooled on the floor greater than 1" in diameter, it is recommended to service the system immediately. For signs of leakage or weeping that results in wetness on components or a single drop, it is recommended to monitor the leak and schedule repair service accordingly.
- Do not attach tow apparatus (hooks, chains, straps, etc.) to the suspension components.

Liquid Spring Suspension

- Additional Information
 - https://liquidspring.com/wp-content/uploads/2017/08/D10920_CLASS_Quick_Operation_Guide_Rev_A.pdf

4WD

- Normal operation is in 2 wd for driving on dry, hard surfaced roads.
- 4wd Lock – front and rear wheels will rotate at same speed and provides additional traction for loose and slippery road surfaces
- 4wd Low – low speed four wheel drive which maximizes traction and pulling power for loose, slippery road surfaces.
- There are no On Spots



4wd Lock

- Automatic hubs
- Can shift into 4 wd Lock while moving.
- Do not shift into 4wd Lock at speeds above 40 mph.
- To return to 2wd, reverse the above process with the same speed considerations.
- Gauge display when in 4wd Lock



4wd Low

- Automatic hubs
- Must be stopped and in Neutral
- Turn dial to 4wd Low and then put in Drive
- **Do not exceed 25mph while in 4wd Low**
- Reverse the sequence to return to 4wd Lock or 2wd.
- Gauge display when in 4wd Low



Diesel Fuel Only



Def

- What is it -
<https://www.youtube.com/watch?v=QF58T5oDQQs>
- Bottles purchased through station supply and stored at Station 10.
- 9 gallon tank
- DO NOT FILL DAILY OR EVEN WEEKLY. Should be filled when first warning message shows up on instrument cluster.
- Does not need to be ‘topped off’.



DEF – Important to Note

- Warning light in dash, chime and mileage countdown will appear when getting low – check for the warning message daily.
 - **DEF Low Refill Soon** – put approx. 9 gallons of DEF in the Def tank.
 - Speed Limited to 5mph in XXXmi Refill Def in a continuous display if you do not refill the Def – put DEF in the Def tank.
 - 5mph Max speed on restart, long idle or Refuel Refill Def – the unit will only allow operation at 5mph if you fail to refill the Def.
 - The unit will not shut down during a response or transport but it will go into this mode if the engine is shut off (eg hospital)
 - **DO NOT LET IT GET TO THIS POINT**

Diesel Exhaust Brake

- One push – full strength exhaust brake mode when accelerator is released (yellow icon will display in instrument cluster)
- Two pushes – enables Smart Brake, green icon in instrument cluster and speed will be maintained when accelerator is released but full exhaust braking will occur when brakes are applied
- Three pushes – turns exhaust brake off and will extinguish the exhaust brake icon in instrument cluster.

Diesel Exhaust Brake – Please Note



- Do Not use the exhaust brake feature in icy or slippery conditions – rear wheels could slide resulting in loss of vehicle control
- Recommendation to operate vehicle with full strength exhaust brake (yellow icon) as this is the most useful for slowing the vehicle.

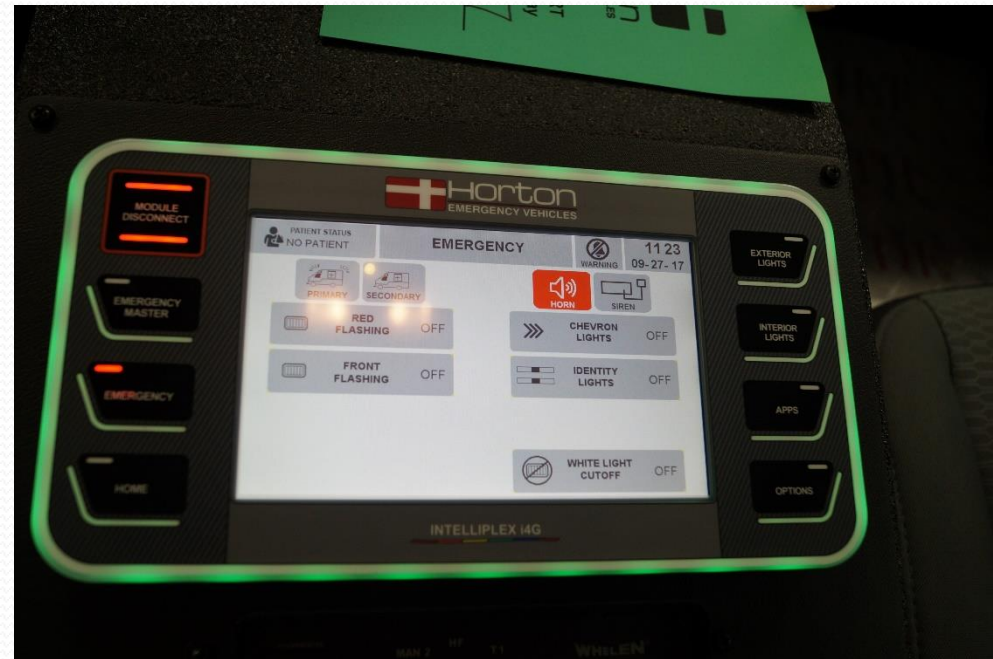
Circuit Breakers

- Located driver's side Compartment #2
- If one or both shoreline indicator lights is off (located above charging plug), then circuit breakers need to be reset.
- Reach in and you can feel two switches – reset if needed.



Intelliplex i4G

- Cab and Box Identical Control Screens
 - Battery switch ON and both screens power on automatically
 - **Do Not** place anything on the screen.
 - EMERGENCY MASTER activates all emergency warning lights.
 - Controls interior lights, exterior lights, environmental controls and camera.
 - Can be cleaned with soft cloth and small amount of glass cleaner.



Camera

- Interior and exterior back up camera
- Controlled through Intelliplex
- Select Options and then can view interior camera or rear camera
- The rear camera is not a substitute for having a back up person in place.
- Intelliplex will automatically switch to rear camera view when the vehicle is placed in reverse.
- Interior camera does not have audio.



HOPS Safety System

- Harness
 - 4 Point restraint system
 - Extend and retract with movement for patient access
 - Locks in event of collision – does not retract
 - Covers are washable and replaceable



HOPS Safety System

- Airbags
 - Located next to CPR chair, next to Captain's chair and under Action Station



Car Seat

- The primary location for the car seat is on the cot.
- There is a built in car seat in the Captain's Chair. A child needs to be between 20lbs-50lbs, 28-47 inches tall, over 1 yr old and able to sit up alone.
- A secondary location for the car seat is on the Captain's Chair. There is a lap belt that can be used to secure the car seat.
- Infant carriers must never be used on the cot as they cannot be securely fastened.



Stryker Power Cot

- Maximum weight capacity 700 lbs
- XPS Side rail with 7 locking positions between 10-52 degrees which can increase surface area of the cot.
- It is NOT a bariatric stretcher.
- Operation
 - <https://www.youtube.com/watch?v=EoaAorupnjw>



Stryker Power Load System

- Parking brake MUST be engaged
- Maximum weight capacity 700lbs
- Operation – can start video at 10 min mark
 - www.youtube.com/watch?v=C2UZ7UbwrjU



Stryker Troubleshooting

- Scenario 1 - <https://youtu.be/NuriDoMo2zg>
- Scenario 2 - <https://youtu.be/gyGpG6GFiFY>
- Scenario 3 - <https://youtu.be/oeVocZ1pb5I>
- Scenario 4 - <https://youtu.be/itfrDbKRBIo>
- Scenario 5 - <https://youtu.be/tDZTxM6hHIw>
- All Scenarios - <https://youtu.be/atkqpPQ3EOQ>

M Tank Loader

Maximum lift weight
205lbs

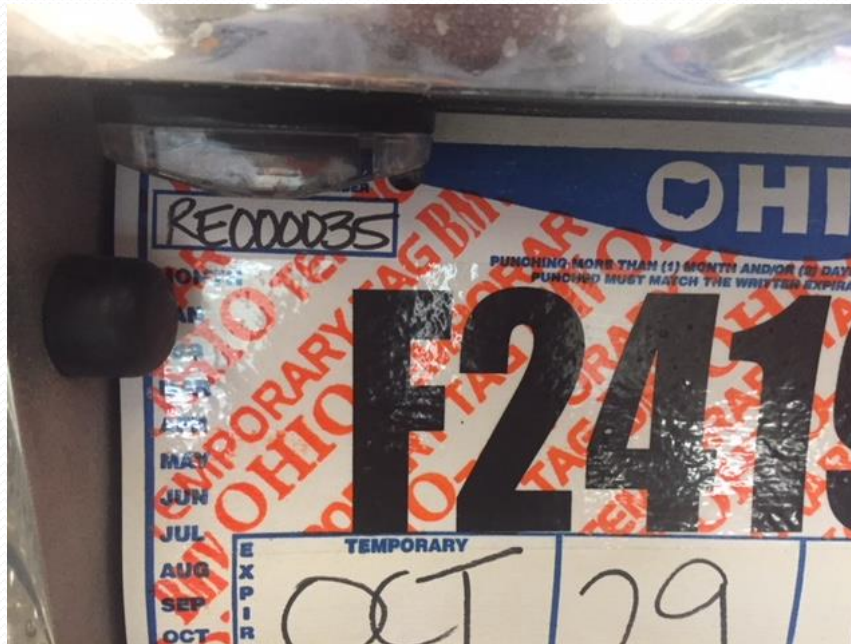
Has an actuator that prevents unit from holding the weight of the apparatus if air suspension is lowered.

There is also cutoff switch that does not allow the vehicle to dump while the Loader is extended on the ground.



Emergency Open Button

- If keys are locked in unit. This button will open all doors.
- Located on left side interior of license plate recess.



Carbon Monoxide Alarm

Located on wall between box and cab



Intellitec Clock

- Located on Action Station
- See link for operating instructions
 - <https://www.intellitec.com/assets/pdf/1453-intellitec-pdf-template-53-00775-001.pdf>

Programming Port

- This is for Intellitec updates only.
- There is no power to the USB and will not charge your electronics.



Drive Time

- Recommended a minimum of 1 hr per driver and more is encouraged.
- Driving to include interstate, main roads, neighborhood streets and backing. Back up person must be in place when in reverse.
- Volunteer drivers will have drive time coordinated to occur on their duty shift. A separate email with details will be sent out.
- The first time you drive this unit **SHOULD NOT** be on a response.

Contact

- Any questions, please contact
- Deputy Chief Piccardi
- Corinne.piccardi@montgomerycountymd.gov
- 301-252-5312