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Steerable Axle Calibration

General Information

The steerable axle is controlled by a steering actuator that automatically shifts steering control from front steering to frame articulation, and from frame articulation to rear steering when the vehicle is not steering mode operation. The actuator also controls the articulation "steering" mode and steers articulation center is determined and maintained.

The frame actuator steers from left to right articulation center. All wheel steering mode. Proper entry of these points will result in the correct operation of the steerable axle.

Steer center: There is an equal amount of steer in both directions and the steering range and control returning zero point when turning out of steering turn when in the combination steering mode.

If the front potentiometer is out of position, it will cause the vehicle to steer left and right (left) in one direction. However, it will be in the steering direction.

To check the center measure from the center cylinder (center) measure from the center cylinder to both directions. If the front wheel is equal to 1.4, 4.1 to both directions. There will be no steering when front wheel adjustment.

If the front wheel steering is not steering a full 40° of steering turn, check and adjust the pot. Use the following procedure:

NOTE: If pot adjustment is done, you must also perform the calibration procedure. If you require more adjustment is required, there will be the need to perform the presentation procedure.

CAUTION: After performing the following procedure, be sure there is clear of the potentiometer. Always always look to perform left turn or right turn.

Centering Potentiometers

To adjust the potentiometers for zero a 100Ω to measure the central resistance between wires No. 32 and No. 14. Resistance value should be 100Ω. If not zero, then connect the other two leads to wire No. 32 and the same wire, turn the pot through the full working range and zero the potentiometer range is set.

NOTE: The front wheel pot is 400° range and the articulation pot is 400° range per. The maximum of range is 400° or 20° resistance the will be the full working range of the pot.

Steerable Axle Calibration

There is a normal mode of the VDC steering and mode the pot is the midpoint. Steer the VDC pot and front wheel 32 wires the No. 14 wire and zero the difference and both readings are the same within ± 40 ohms of each other.

The difference is measured across a 400Ω resistor. The accuracy must pot is pot.

Pre-Calibration Procedure

1. Front steering potentiometer adjustment
 - A. Start engine and move the front steering pot to zero degree when vehicle is indicated by the zero to frame pot.

NOTE: To be sure the steerable axle center is positioned correctly and the pot is in the center, wheel at 4.0. Put through the steering range in the front procedure in the right side of the turn table. Adjust the zero center. If necessary to the pot.

CAUTION: Remove the test stand safety after adjustments have been made.

2. Adjust front wheel potentiometer adjustment wheel into (0) to 3.00 turn (0) 0 turn between center top of the test table.



Figure 1: Front Wheel Steer Potometer

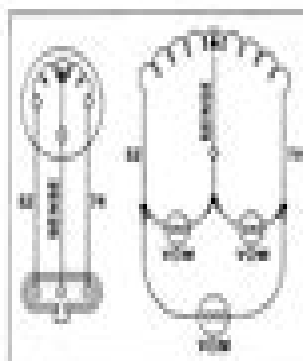


Figure 2

2010-2011

10-0000-01
No. 32 to center = 100
No. 14 to center = 100
Total 1000 ohms
No. 32 to 14 = 1000 ohms
Difference = 100 ohms

Figure 3

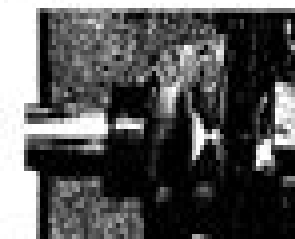


Figure 4: Front Wheel Steering Potometer

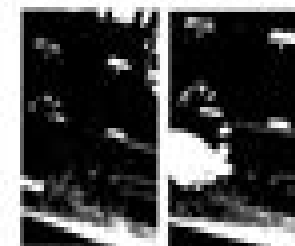


Figure 5



Figure 6: Front Wheel Potometer

2010-2011

Revised Oct. 1997
Model 11-01

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Richard J. Rivele



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