

SERVICE INFORMATION BULLETIN

Subject: SPEEDOMETER RECALIBRATION

This document is to inform of the procedure to calibrate the Pulse Adjust Module when needed (ex. tire size change, rear carrier ratio change).

1. RELEVANT MODELS

All 2005 and newer conventional models

2. ITEMS NEEDED

- A) Speedometer conversion rate list
- B) Recalibration procedure
- C) Input tool (P/No. 09630-2400)
- D) Caution plate (P/No. 76588-3800)
- E) Seal (P/No. 83179-1140)

3. Contents

After selecting proper speedometer conversion rate follow attached procedures to recalibrate pulse adjust computer.

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SPEEDOMETER CONVERSION RATE LIST

EATON FS4205A, FS5406A, FS6406A, MANUAL TRANSMISSION SERIES

REAR AXLE RATIO

TIRE SIZE	RADIUS	3.42	3.58	3.73	3.90	3.91	4.10	4.11	4.30	4.33	4.56	4.63	4.88
215/85R16	0.374	0.663	0.653	0.627	0.599	0.598	0.570	0.599	0.543	0.540	0.512	0.505	0.479
225/70R19.5	0.395	0.722	0.690	0.662	0.633	0.631	0.602	0.601	0.574	0.570	0.541	0.533	0.506
9R22.5	0.470	0.859	0.821	0.788	0.753	0.751	0.716	0.715	0.683	0.678	0.644	0.634	0.602
255/80R22.5	0.475	0.868	0.829	0.796	0.761	0.759	0.724	0.722	0.690	0.686	0.651	0.641	0.608
10R22.5	0.492	0.899	0.859	0.824	0.788	0.786	0.750	0.748	0.715	0.710	0.674	0.664	0.630
295/75R22.5	0.493	0.901	0.861	0.826	0.790	0.788	0.751	0.750	0.716	0.712	0.676	0.665	0.631
11R22.5	0.508	0.928	0.887	0.851	0.814	0.812	0.774	0.722	0.738	0.733	0.696	0.686	0.651

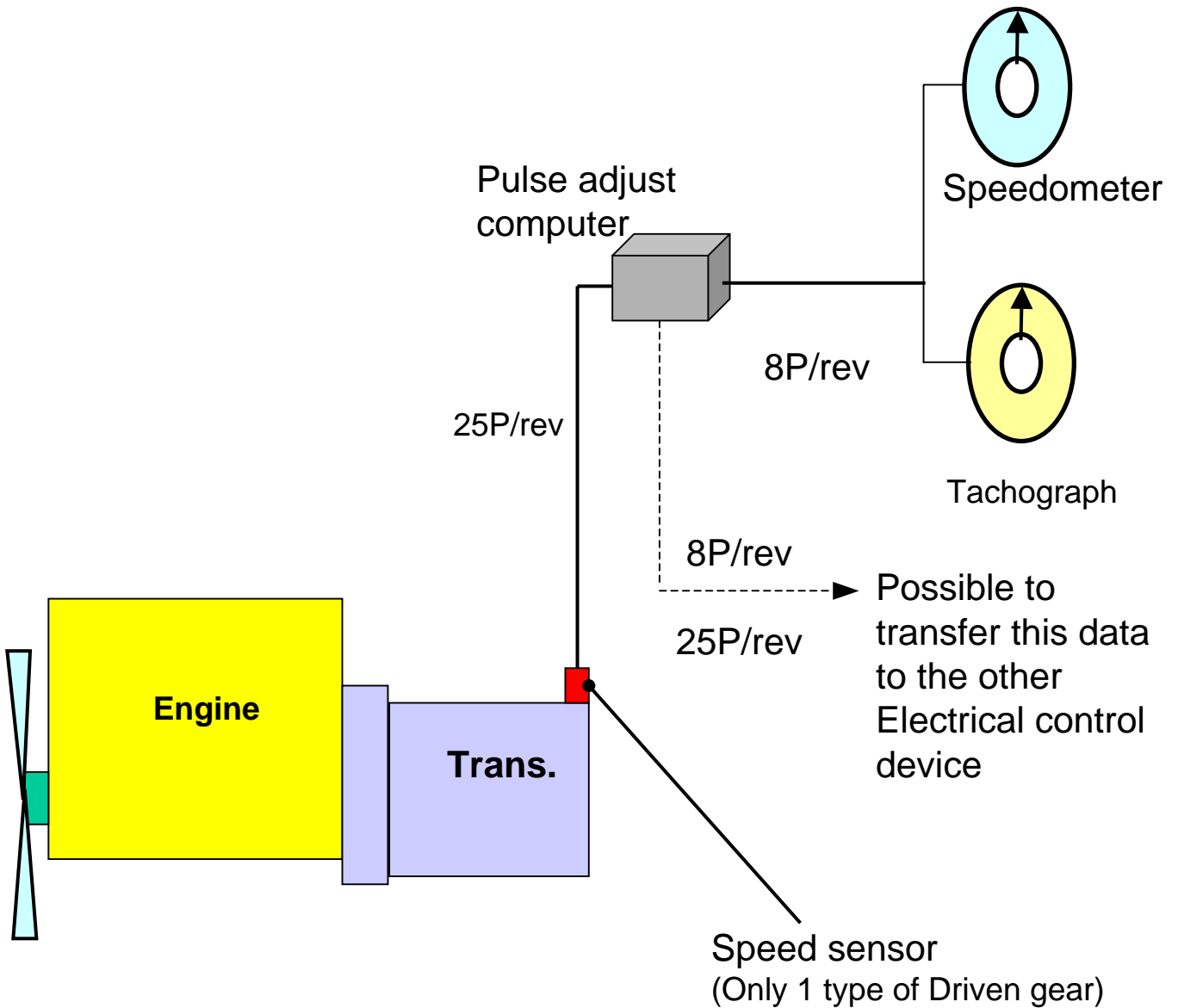
ALLISON LCT2400 AND 2000, MD3060P AUTOMATIC TRANSMISSION SERIES

REAR AXLE RATIO

TIRE SIZE	RADIUS	4.880	5.130	5.290	5.570	5.860
9R22.5	0.470	1.204	1.145	1.111	1.055	1.003
255/80R22.5	0.475	1.217	1.158	1.123	1.066	1.013
10R22.5	0.492	1.260	1.199	1.163	1.104	1.050
295/75R22.5	0.493	1.263	1.201	1.165	1.107	1.052
11R22.5	0.508	1.302	1.238	1.201	1.140	1.084

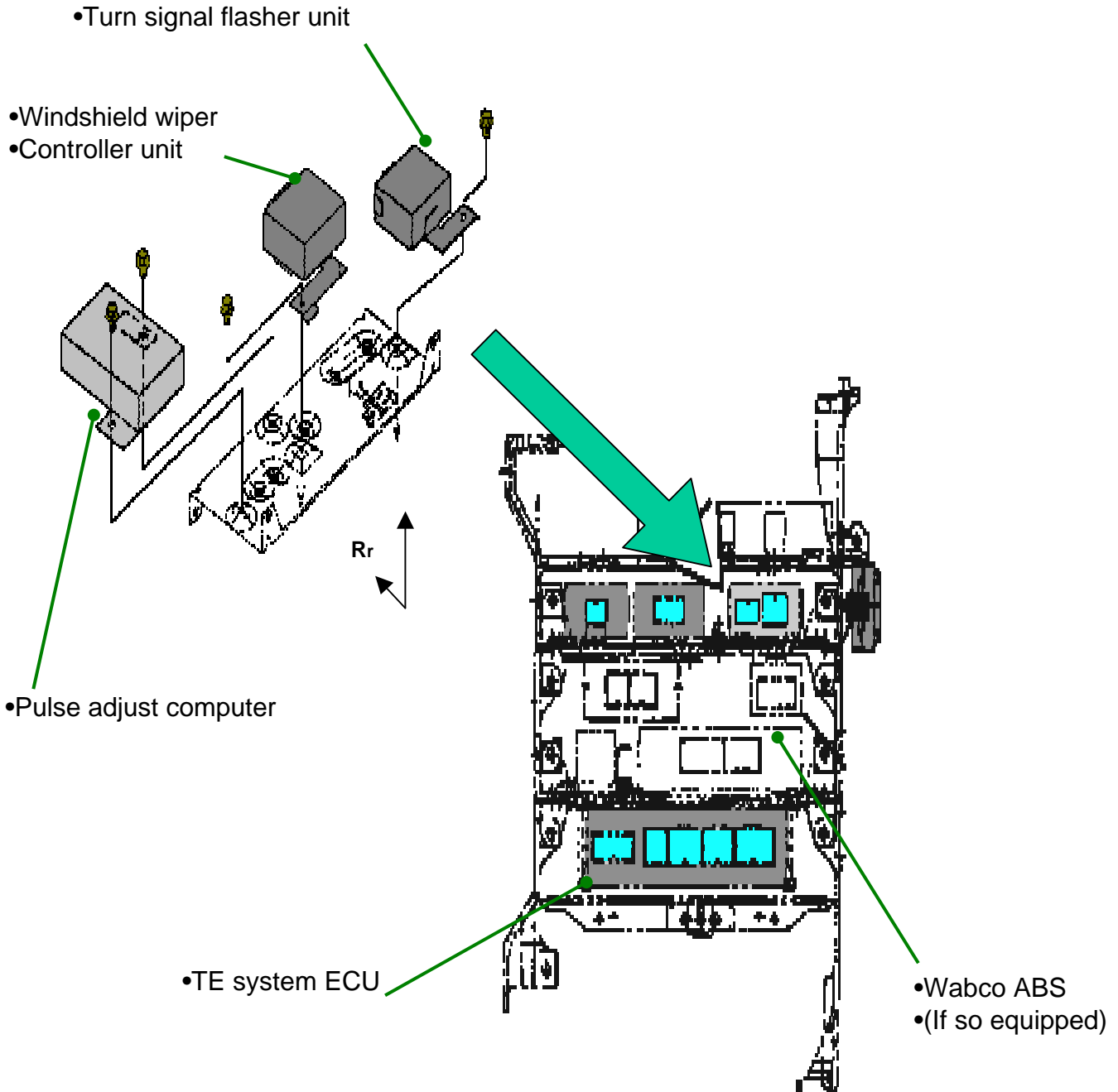
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Speedometer compensating ratio tuning device 1. Summary of the system



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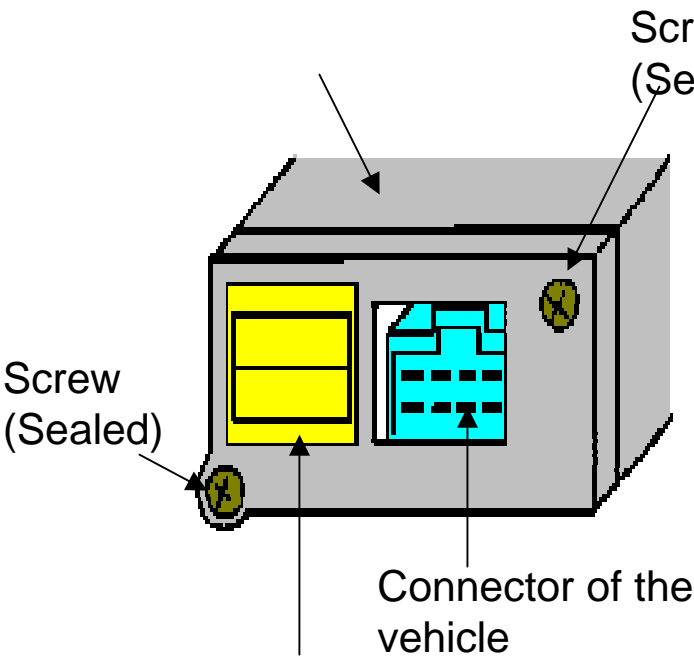
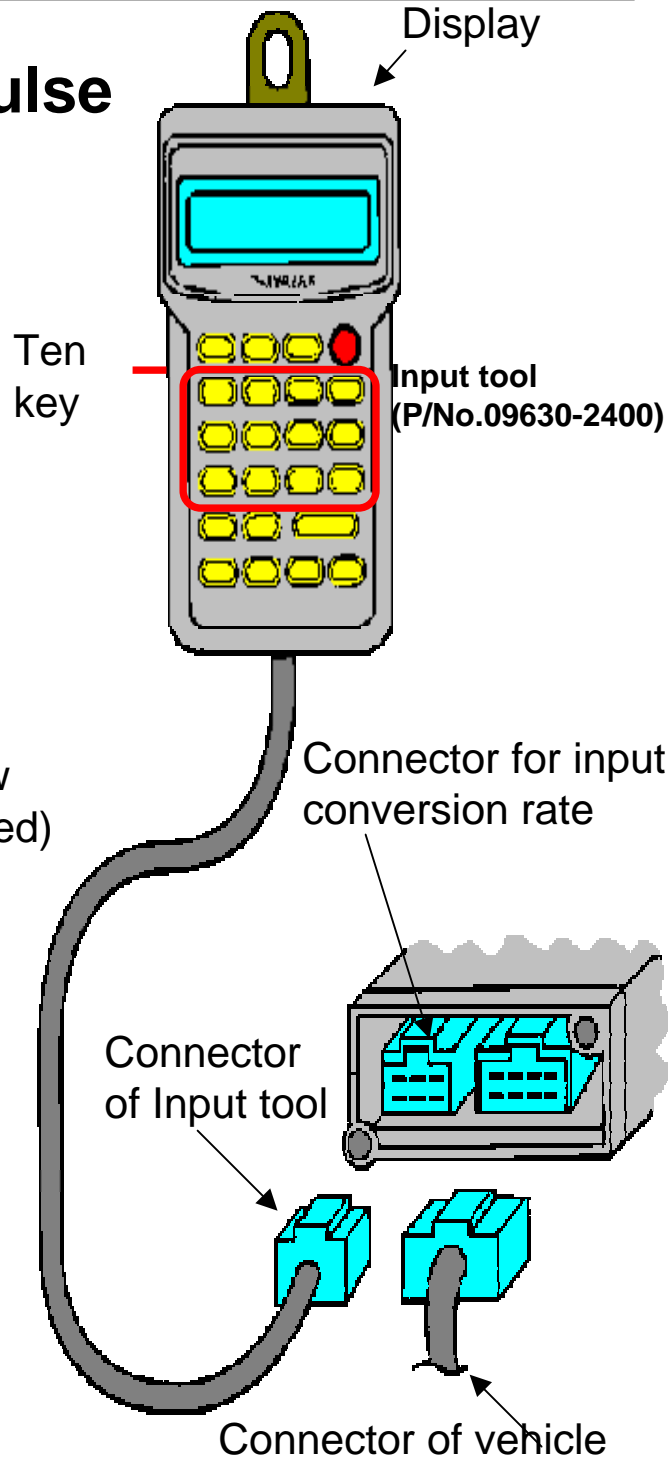
2. Location of the pulse adjust computer



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3. Adjustment of the pulse

- (1) Two ways to access the module to connect the reprogram tool
 - a) Remove the caution plate window with pointed tool
 - b) Remove the 2 screws on the face plate
- (2) Connect the input tool to the connector.



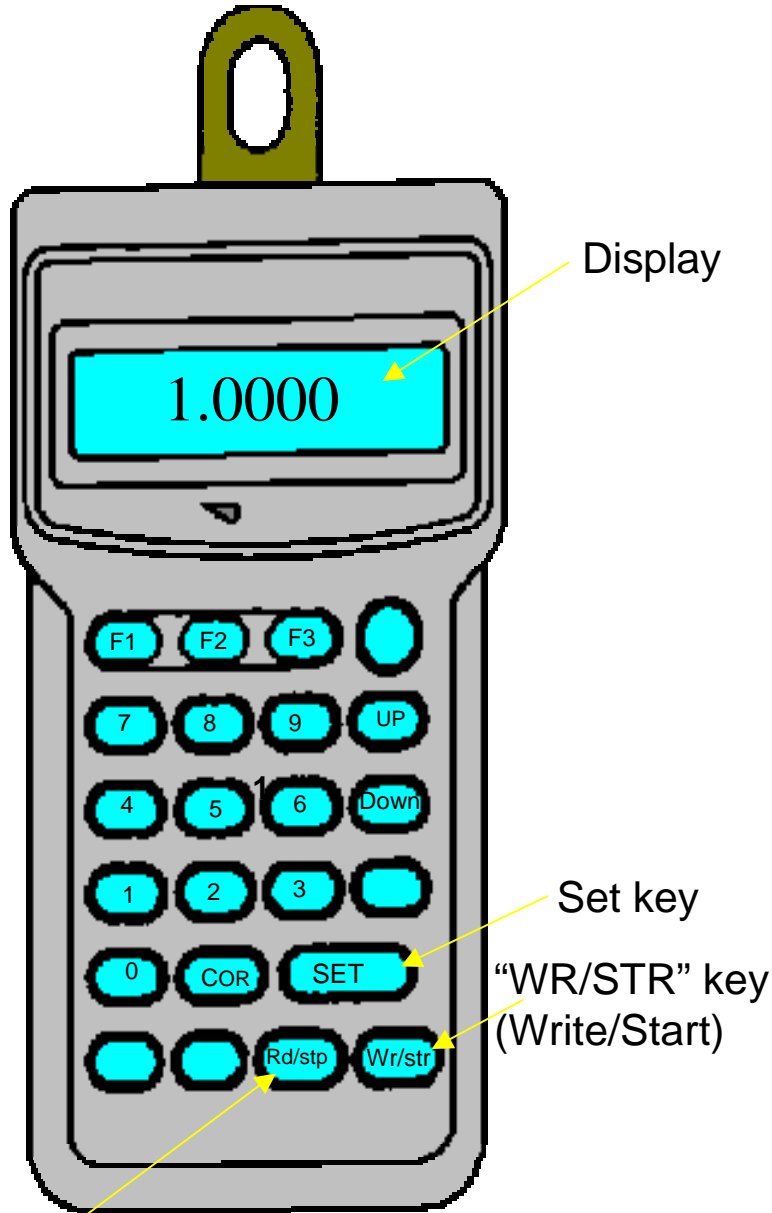
Caution plate window

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4. Programming Procedure

(After connecting Input tool)

- 1) Key switch "ON".
 Make sure the display is set to **SP1**
(Use up and down key to select).
 SP 1: Emitter follower type (For HINO vehicle)
 SP 2: Open collector type (Do Not choose)
 SP 3: Pick up sensor type (Do Not choose)
 Push **SET** key.
- 2) Display will show "a - - - "
a : 25 (Do not change)
 Push **SET** key.
- 3) Display will show "b - - - " on display.
b : 8 (Do no change)
 Push **SET** key.
- 4) Display will show " - - - " on display.
 Display will show calibration that is in the vehicle.
 - (1) Push **SET** key. (Display will flash on & off)
 - (2) Push **COR** key. (Correction)
 - (3) Input the new calibration (Display will flash on & off)
 - (4) Push **SET** key. (Fix the input figure)
 - (5) Push **WR/STR** (Write & Start) key. This will save the new calibration to memory.
 - (6) Display will show "**Good**" process completed.



"RD/STP" KEY
 READ /STOP

Vendor Ref:

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5. Disconnecting Input tool

1. Turn the Eng starter switch to “Lock” position.
2. Disconnect the Input tool connector.
3. Mount the cover of pulse adjuster with 2 screws.
3. Apply new seal (P/No.83179-1140) on the screws to seal them.
4. Write down New conversion rate on a new caution plate (P/No.76588-3800 conversion rate record seal) and stick it in its place.
5. Mount the instrument panel cover.

