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Service Information System	
	Welcome: lanets
re for the CT Vocational Trucks{7000}	
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Oxygen Sensor Calibration Procedure for the CT Vocational Trucks {7000}

SMCS - 7000

On Highway Truck:

ČT660 (S/N: TGA1-UP; TGD1-UP; TJD1-UP; TEJ1-UP; TRK1-UP; TKL1-UP; TEM1-UP; TEP1-UP; TGR1-UP; TGS1-UP; TJS1-UP; TGT1-UP; TGW1-UP; TSW1-UP; TEY1-UP; TSY1-UP; TEZ1-UP; TGZ1-UP)

Introduction

This Special Instruction explains the Oxygen Sensor (O2S) Calibration Procedure that must be followed when replacing or calibrating the O2S on the CT Vocational trucks.

Parts Information

	Table 1	
Require	d Equipment	
QTY	Version Number	Description
1	Build v38.1.21.201402031337	Engine Diagnostic Software

Procedure



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NOTICE

The O2S needs to be installed in the exhaust before calibrating the sensor (Illustration 1).

\$	✓ Load Test Specific Session		
	KOEO Tests	•	Actuator Test
Valida Tafanatian	KOER Tests	•	Continuous Monitor Test
venice information	KOER Aftertreatment Tests	,	Relative Compression Test
	Cylinder Performance Analyzer		Inlet Air Heater Test

Illustration 2

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- 1. Connect Personal Computer (PC) with engine diagnostic software. Turn Key ON, Engine OFF (KOEO).
- 2. Clear exhaust fumes by running the Relative Compression Test before calibrating the O2S. Disregard Relative Compression Test results (Illustration 2).

File View	Session	ns Tests	Procedures Tools Help		
*		a	KOEO Procedures	•	O2 Sensor Calibration
9	EZ	Ø	KOER Aftertreatment Procedu	ures)	Injection Quantity Adjustment
Vehicle Int	formation	1		10	DPF Servicing

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3. Open O2 Sensor Calibration Procedure (Illustration 3).

02 Sensor		
	Start O2 Sensor Calibration	

Illustration 4

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4. Press the Start O2 Sensor Calibration button (Illustration 4).

Note: Calibration takes about 5 minutes and 40 seconds to complete.

Diagno	stics Test Status	×
0	O2 Sensor Calibration: Test Completed, Sc	accessful
	ОК	

Illustration 5

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5. When calibration is complete, a popup message will display O2 Sensor Calibration: Test Completed, Successful, press OK button (Illustration 5).

Of the car	nly aft e belov dibratio 99520	er new O2 sensor is w Parameters. Note: ons. (set to 0)	installed and ca The 4 Paramete	libration is con ers are not ava	nplete, program ilable on all
	99540	(set to 0) (set to 0)	~		
	77220	(set to round 750 c	-)		
02	2 Sensor	Heater Parameters			
02	2 Sensor	Heater Parameters	Program Engin] 다 Only	Show Watched
02 T	2 Sensor	Heater Parameters	Program Engin	e V Only	Show Watched
02 T	2 Sensor ID • 99520	Heater Parameters	Program Engin Value 179	c] 다 Only	Show Watched
T	2 Sensor ID • 99520 99530	Heater Parameters	Program Engin Value 179 r 0	e 이너y	Show Watched
T	2 Sensor ID = 99520 99530 99540	Heater Parameters	Program Engin Value 179 r 0 13	ie	Show Watched

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- 6. Reset Parameters ONLY if a new O2S is installed (Illustration 6):
 - 99520 (Set to 0)
 - 99530 (Set to 0)
 - 99540 (Set to 0)
 - 99550 (Set to Normal 780 C)

Only aft below P	ter new O2 sensor is ins varameters. Note: The 4 (set to 0)	talled and calibration is Parameters are not avai	complete, program the lable on all calibrations.
- 99530	(set to 0)		
99540	(set to 0)		
99550	(set to Normal 780 C)		
02 Senso	r Heater Parameters		
	Undo Al Changes	Program Engine	Only Show Watched
- 10	Astronomerco	Value	Unda

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Note: Not all calibrations have the Parameters in lower part of window as described in previous Step (Illustration 7).

	15k (2010-) O2	Sensor (Calibration F ted		02 Sensor
NOTE I - Clear e results) Note: O	Exhaust gas fum exhaust fumes by 2 Sensor Calibrat	es must be ren running the B tion will run fo	noved before calibrating lelative Compression Te r about 5 minutes, 40 se	the O2 sensor. at (Disregard RCT conds.	Parameters T D - Name 97147 Laxiods zen
Re-cet Pa	rametars only if ser New O	neor is replaced	Programming	F Lock	Septain
below P	arameters. Note:	The 4 Parame	ters are not available on	all calibrations.	C 190 1112.275
- 99520 - 99530 - 99540 - 99550	(set to 0) (set to 0) (set to 0) (set to Normal 1	180 C)			5 6 128 1112.290 -0.150 1112.225
- 99520 - 99530 - 99540 - 99550 02 Senso	(set to 0) (set to 0) (set to 0) (set to Normal 7 Heater Parameter Units At Dury	780 C) * 0:5- Pox	zantrone	how Watched	6 135 1112.255 -0 150 1112.225 - 0.25H -
- 99520 - 99530 - 99540 - 99550 02 Senso 02 Senso 9952 9952 9952 9954 9955	(set to 0) (set to 0) (set to 0) (set to Normal 1 Heater Parameter Units At Clery Abbrenieton 0.500 event 0.500 event 0.500 event 0.500 heater r	180 C) * ons Pos unter egen	Value 0 0 0 3fermal 780 C	how Watched	C 128 1112.200 C 150 1112.225 C 150 1112.225 C 25 4 Oxygen C25 4 Oxygen C25 4 Oxygen C25 Temperature V1 C5 Sensor DIT V V2 C5 Sensor Volta
- 99520 - 99530 - 99540 - 99550 02 Senso 9955 9953 9953 9953 9953	(set to 0) (set to 0) (set to 0) (set to Normal 1 Hoster Paramèter Units At Clary Abtrevietori 0.500 event 0.500 event 0.500 event 0.500 hearter r	/80 C) * ons Pox unter +gen	Value 0 0 0 Normal 780 C	how Watched	C 138 1112.200 C 130 1112.225 C 130 1112.225 C 25H - 025H - 025 + Orygen 025 Heater 025 Sensor 101 V V: C5 Sensor Volta

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