

Monitored Parameters for the Combustion Air System



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The table displays the monitor parameters available on the Smart Display in Level 3 access that aid maintenance personnel in monitoring the combustion air system.

MP ID	Display Name	Description	Display Format	Units
102	Throttle Notch	Requested Throttle Notch - This is the Throttle Notch determined from either the Master Controller Throttle or the Trainline. 0 = Idle (will show 0 if Throttle is in Brake Set-Up or Brake) 1 = Notch 1, 2 = Notch 2, 3 = Notch 3, 4 = Notch 4, 5 = Notch 5, 6 = Notch 6, 7 = Notch 7, 8 = Notch 8, 9 = SHUTDOWN	X	Number
109	True Amb Air Temp	Ambient temperature flowing in the Turbo Air Inlet airflow. Measured by ATT (TAI) sensor.	-xxx.x	oF
110	Outside Air Temp	Ambient temperature flowing in the Aux Cab (calculated by Equipment Ventilation System based on the type of blower and blower rise predicted). Measured by the AT sensor.	-xxx.x	oF
111	Barometric Pressure	Barometric air pressure (measured by BAP sensor).	xx.x	psia
1000	Gross HP	Engine gross horsepower.	Xxxx	HP
1010	ECU Load Pot Value	Load pot value sent from the ECU.	xxx.x	0 to 100%
1011	LCP HP	Load control pot HP.	Xxxx	HP
1021	Max HP Delta T	Maximum horsepower available due to ΔT restriction.	Xxxx	HP
1022	Max HP PreTurb Temp	Maximum horsepower available due to pre-turbine temperature.	Xxxx	HP
1025	Horsepower Available	Horsepower available for given engine conditions.	Xxxx	HP
1030	Max HP - Speed	Maximum horsepower due to speed restriction.	Xxxx	HP
1031	Max HP - Eng State	Maximum horsepower due to EMS state.	Xxxx	HP
1032	Max HP - Eng Temp	Maximum horsepower due to engine over-temperature.	Xxxx	HP
1033	Max HP - Air Filter DP	Maximum horsepower due to air filter DP switch state.	Xxxx	HP
1034	Max HP - Solenoid Flts	Maximum horsepower due to solenoid faults	Xxxx	HP
1036	Max HP - Solenoid Faults	Maximum horsepower available based on the status of the solenoid faults.	Xxxx	HP



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1037	Max HP - LCP	Maximum horsepower available based on the status of the load control pot.	Xxxx	HP
1040	Hot Engine DF %	Hot engine deration factor %.	xxx.xx	%
1041	Air Filter DP DF %	Air filter differential pressure deration factor %.	xxx.xx	%
1055	Fuel Dmd	ECU fuel demand.	Xxxx	mm3/stroke
1056	Fuel Value	ECU fuel value.	Xxxx	mm3/stroke
1057	Fuel Lim	ECU fuel limit.	Xxxx	mm3/stroke
1135	Eng Overtemp Deration	Engine overtemp low deration limit.	-xxxx.x	%
1137	Max HP Altitude	Maximum HP allowed for altitude (based on barometric pressure).	-xxxx.x	HP
1144	Aux HP consumed	Total aux HP consumed from gross HP calc. function.	-xxxx.x	HP
1145	Max HP Hot Oil	Limit imposed by hot oil strategy (EMS model outputs).	xxxx.x	HP
1146	Max HP Hot Water	Limit imposed by hot water strategy (EMS model outputs).	xxxx.x	HP
1149	Max HP Hot Pre-turbine	Limit imposed by hot pre-turbine strategy (EMS model outputs).	xxxx.x	HP
1203	ELPP, Lube Oil Pump Press	Engine lube oil outlet pump pressure (measured by ELPP sensor).	xxx.x	Psig
1209	Air Filt Diff Press	Engine air filter pressure (measured by EAFP sensor) converted to inches of water.	xx.x	inches of H2O
1500	Water Temp	Engine water inlet temperature (measured by EWIT sensor).	xxx.x	oF
1501	Water Press	Engine water inlet pressure (measured by EWIP sensor).	xxx.x	Psig
1503	Water Outlet Temp	Engine water outlet temperature (measured by EWOT sensor).	-xxx.x	oF
1505	Oil Outlet Temp	Engine lube outlet temperature (measured by ELOT sensor).	xxx.x	oF
1506	Oil Press	Engine lube inlet pressure (measured by ELIP sensor).	xxx.x	Psig
1507	Oil Inlet Temp	Engine lube inlet temperature (measured by ELIT sensor).	xxx.x	oF
1510	Man Air Temp	Manifold air temperature (measured by MAT sensor).	xxx.x	oF
1511	Man Air Press	Manifold air pressure (measured by MAP sensor).	xxx.x	Psig
1513	Max LOP Notch	Maximum notch allowed based on the low lube oil pressure modulation function.	X	Number



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1515	WFV 1 Cmd	Water Flow Valve 1 "On" command.	Xxx	"On" , "Off"
1516	WFV 2 Cmd	Water Flow Valve 2 "On" command.	Xxx	"On" , "Off"
1525	Exh Left Temp	Exhaust temperature left (measured by PTLT sensor).	Xxxx	oF
1526	Exh Right Temp	Exhaust temperature right (measured by PTRT sensor).	Xxxx	oF
1530	Fuel Temp	Fuel temperature (measured by EFT sensor).	xxx.x	oF
1531	Fuel Press	Fuel pressure (measured by FSP sensor).	xxx.x	oF
1535	Crankcase Press	Crankcase air pressure (measured by COP sensor).	xx.xx	inches of H2O
1611	WFV 3 CMD	Water Flow Valve 3 "On" command.	Xxx	"On" , "Off"
1612	A2A Fan 1 Cmd	Air to Air Fan 1 Contactor "On" command.	Xxx	"On" , "Off"
1613	A2A Fan 2 Cmd	Air to Air Fan 2 Contactor "On" command.	Xxx	"On" , "Off"
1615	A2A Shutter2 Cmd	Air to Air Shutter 2 Mag Valve "On" command.	Xxx	"On" , "Off"
1616	A2A Shutter3 Cmd	Air to Air Shutter 3 Mag Valve "On" command.	Xxx	"On" , "Off"
1617	A2A Contactor 1 FB	Air to Air Fan 1 Contactor "Closed" feedback.	xxxxxx	"Open" , "Closed"
1618	A2A Contactor 2 FB	Air to Air Fan 2 Contactor "Closed" feedback.	xxxxxx	"Open" , "Closed"

