

Operation and Service Manual

Alarm Guide

APX and Advance Microprocessor Control System





TRANSICOLD

**Alarm Guide
APX and Advance
Microprocessor Control System**

Emergency Road Service

At Carrier Transicold we are working hard to give you complete service when and where you need it. That means a worldwide network of dealers that offer 24-hour emergency service. These service centers are staffed by factory-trained personnel and back by extensive parts inventories that will ensure you of prompt repair.

If you experience a problem with your unit during transit, follow your company's emergency procedure or contact the nearest Carrier Transicold service center. Consult the Shortstop Service Centers directory or visit www.trucktrailer.carrier.com and click "Dealer Locator" to find the service center closest to you. The shortstop directory is available at your Carrier Transicold dealer.

You can also download the Carrier Transicold North America Truck/Trailer Dealer Locator app to your smart phone. This app provides:

- Location information for every Carrier Transicold dealer in North America
- The nearest dealer to your present location
- Dealer look-up capability
- Dealer Services (Trailer, Truck, APU, Mobile Support, etc.)

- Addresses
- Maps to easily find dealerships
- Directions and navigation to the dealerships
- Phone numbers and 24-hour emergency hotlines where available
- Auto-dialing
- Hours of operation
- Link to dealer website
- Ability to add to contacts

To download the Carrier Transicold North America Truck/Trailer Dealer Locator app, scan this QR code of go directly to your app store.



If you are unable to reach a service center, call our 24-hour Action Line (800-448-1661).

We will do everything we can to have your problem taken care of by an authorized CTD dealer and get you back on the road.

Advance and APX Alarms

All alarms should be reported on a daily basis. Also, all alarms should be recorded prior to being cleared.

This information provided herein should be considered as a recommendation only. Always follow your company's guidelines whenever an alarm occurs.

Whenever an asterisk (*) appears in the Action column, that alarm can be restarted by placing the START/RUN – OFF switch in the OFF position, and then back in the START/RUN position.

Alarms higher than 255 are APX only; Alarms 255 and lower are used by both Advance and APX Control Systems, although some alarms will be specific to a particular controller or model. Alarms numbers that are marked with an asterisk (*) are specific to *Advance* units only.



Orange = Setting Configurable

Yellow = Caution Alarm

Red - Shutdown Alarm (or Alarm Only as configured)

Alarm	Description	Response	Action
Driver Alarms			
00001	Low Fuel Level Warning	Alarm	Add fuel; alarm will clear
00002*	Low Engine Oil Level	Alarm	Add Oil, alarm will clear
00003*	Low Coolant Level	Alarm	Check and Repair at end of trip
00004*	Low Refrigerant Level	Shutdown	Report and repair immediately
00006*	Damper Requires Newer Micro	Shutdown	Report and repair immediately
00007*	EES Regen Failure	Shutdown	Reset*; report reactivation
Shutdown Alarms			
00011	Check / Low Engine Oil Pressure	Shut Down	Unit will restart*; report reactivation
00012	High Coolant Temp	Shut Down	Unit will restart*; report reactivation
00013	High Pressure	Shut Down	Unit will restart*; report reactivation
00014	High A/C Amp	Shut Down	Unit will restart*; report reactivation
00015	High Battery Voltage	Shut Down	Report and repair immediately
00016	Low Battery Voltage	Shut Down	Report and repair immediately
00017	High Discharge Temp	Shut Down	Unit will restart*; report reactivation
00018	Low Pressure Shut Down (Suction)	Shut Down	Unit will restart*; report reactivation
00019	Low Fuel Level Shutdown	Shut Down	Add fuel; unit will restart*

Alarm	Description	Response	Action
00020	Maximum Compressor Alarms	Shut Down	Report and repair immediately
00021	Tech Reset	Shut Down	Report and repair immediately
00022	Low Suction Superheat	Shut Down	Unit will restart*; report reactivation
00023	Over Current	Shut Down	Unit will restart*; report reactivation
00024	Compression Ratio	Shut Down	Unit will restart*; report reactivation
00025*	Check Damper System	Alarm	Check and Repair at end of trip
00027	High Suction Pressure	Shut Down	Unit will restart*; report reactivation
00028	Check Refrigeration System	Shut Down	Unit will restart*; report reactivation
00029	Check Heat Cycle	Alarm	Reset*; report reactivation
Startup / Engine Alarms			
00030	Failed to Run Minimum Time	Shut Down	Report and repair immediately
00031	Auto Start Fail	Shut Down	Report and repair immediately
00032*	Failed to Start - Manual	Shut Down	Power Cycle unit
00034	Engine Failed to Stop	Alarm	Move fuel arm to stop position (if equipped) or report & repair immediately
00035	Engine Failed to Crank	Shut Down	Report and repair immediately
00036	Low Coolant Temp	Alarm	Check and repair at end of trip
00037	No Low Speed	Alarm	Check and repair at end of trip
00038	No High Speed	Alarm	Check and repair at end of trip

Alarm	Description	Response	Action
00039	Check Engine RPM	Shut Down	Unit will restart*; report reactivation
00040	Check Engine Preheat	Alarm	Unit will restart*; report reactivation
00041	Engine Stalled	Shut Down	Unit will restart*; report reactivation
Warning / Status Alarms			
00051	Alternator Check	Shut Down	Report and repair immediately
00053	Temp out of Range	Configurable	Reset*; report reactivation
00054	Defrost Terminated by Time	Alarm	Check and repair at end of trip
00055	Defrost Override	Alarm	Check and repair at end of trip
00056	Check Evaporator Air Flow	Shut Down	Unit will restart*; report reactivation
00057	Door Open (Remote Switch 1)	Configurable	Close all compartment doors; unit should restart If unit is shutdown, repair immediately
00058	Door Open (Remote Switch 2)	Configurable	
00059	Data Recorder Memory Fail	Alarm	Check and repair at end of trip
00060	Real Time Clock Failure	Alarm	Check and repair at end of trip
00061	Door Open	Configurable	Close all compartment doors; unit should restart If unit is shutdown, repair immediately
00062	Temp Out of Range Comp 2	Configurable	Reset*; report reactivation
00063	Temp Out of Range Comp 3	Configurable	Reset*; report reactivation

Alarm	Description	Response	Action
00064*	Door Open Override	Alarm	Reset*; report reactivation
00065*	Damper not Closing	Alarm	Reset*; report reactivation
00066*	Check Evap Sensor Group	Alarm	Reset*; report reactivation
Electrical Alarms			
00071*	Bad F2 or F3	Shut Down	Report and repair immediately
00072*	Bad F4 or F6	Shut Down	Report and repair immediately
00073	No A/C Power (Standby)	Configurable	Switch to diesel operation and repair
00074	Phase Reversed	Shut Down	Unit will restart*; report reactivation
00075	Compressor Motor Overload	Shut Down	Unit will restart*; report reactivation
00076	Condenser Motor Overload	Shut Down	Unit will restart*; report reactivation
00077	Evaporator Motor Over Load	Shut Down	Unit will restart*; report reactivation
00078	Check SV1 Solenoid Valve	Alarm	Reset*; report reactivation
00079	Check SV4 Solenoid Valve	Alarm	Reset*; report reactivation
00080*	Check SV3 Solenoid Valve	Alarm	Reset*; report reactivation
00081	Check Fuel Heat Relay	Alarm	Check and repair at end of trip
00082*	Check Remote Out of Range Light	Alarm	Check and Repair at end of trip
00083*	Check Remote Defrost Light	Alarm	Check and Repair at end of trip
00084	Check Remote Alarm Light	Alarm	Check and repair at end of trip
00085	Check UL-1	Alarm	Check and repair at end of trip
00086	Check UL-2	Alarm	Check and repair at end of trip
00087*	Check Remote Heat Light	Alarm	Check and repair at end of trip

Alarm	Description	Response	Action
00088*	Check Remote Cool Light	Alarm	Check and repair at end of trip
00089*	Check Remote Auto Light	Alarm	Check and repair at end of trip
00090	Auto Fresh Air Exchange	Alarm	Check and repair at end of trip
00091	Check Heater Contactor 1	Alarm	Reset*; report reactivation
00092	Check Heater Contactor 2+B111	Alarm	Reset*; report reactivation
00093	Check Prestart	Alarm	Report and repair immediately
00094	Check Compressor Contactor	Alarm	Reset*; report reactivation
00095	Check Condenser Motor Contactor 1	Alarm	Reset*; report reactivation
00096	Check Generator Contactor	Shut Down	Reset*; report reactivation
00097	Check Liquid Solenoid Valve (SV2)	Alarm	Reset*; report reactivation
00098	Check High Temp Thermostat	Alarm	Reset*; report reactivation
00099*	Check Standby Contactor	Alarm	Reset*; report reactivation
00100	Overload/Ground Fault	Shut Down	Report and repair immediately
00101	Evap Motor Overload C2	Shut Down	Report and repair immediately
00102	Evap Motor Overload C3	Shut Down	Report and repair immediately
00103	Check C2 Heater 1 Circuit	Alarm	Reset*; report reactivation
00104	Check C2 Heater 2 Circuit	Alarm	Reset*; report reactivation
00105	Check C3 Heater 1 Circuit	Alarm	Reset*; report reactivation
00106	Check C3 Heater 2 Circuit	Alarm	Reset*; report reactivation
00107	In Active/Future Expansion		
00108	In Active/Future Expansion		

Alarm	Description	Response	Action
00109	Check Evaporator Contactor Circuit	Alarm	Reset*; report reactivation
00110	Check C2 Evaporator Circuit	Alarm	Reset*; report reactivation
00111	Check C3 Evaporator Circuit	Alarm	Reset*; report reactivation
00112	In Active/Future Expansion		
00113	In Active/Future Expansion		
00114	Check LIV Circuit	Alarm	Reset*; report reactivation
00117*	Check DCR2 Circuit	Alarm	Reset*; report reactivation
00118*	Check Damper Motor Circuit	Alarm	Reset*; report reactivation
00120*	Check Damper Motor Sensor	Alarm	Reset*; report reactivation
00121	Check Ambient Air Sensor	Alarm	Check and repair at end of trip
00122	Check Return Air Sensor	Alarm	If shut down, repair immediately
00123	Check Supply Air Sensor	Alarm	Otherwise, report and repair at end of trip
00124	Check Defrost Termination Sensor	Alarm	Check and repair at end of trip
00125	Check Discharge Temp Sensor	Alarm	Check and repair at end of trip
00126	Low Fuel Alarm	Alarm	Check and repair at end of trip
00127	Check Suction Temp Sensor	Alarm	Check and repair at end of trip
00128	Low Unbalanced AMP	Alarm	Check and repair at end of trip
00129	Check Coolant Temp Sensor	Alarm	Check and repair at end of trip

Alarm	Description	Response	Action
00130	Check RPM Sensor	Alarm	If shut down, repair immediately Otherwise, report and repair at end of trip
00131	Check Evaporator Outlet Sensor	Alarm	Check and repair at end of trip
00132	Check Defrost Termination Sensor	Alarm	Check and repair at end of trip
00133	Check Remote Sensor 1	Alarm	Check and repair at end of trip
00134	Check Remote Sensor 2	Alarm	Check and repair at end of trip
00135	Check Remote Sensor 3	Alarm	Check and repair at end of trip
00136	Check C2 Supply Air Sensor	Alarm	Check and repair at end of trip
00137	Check C2 Return Air Sensor	Alarm	Reset*; report reactivation
00138	Check C3 Return Air Sensor	Alarm	Reset*; report reactivation
00139	Check C2 Defrost Termination Sensor	Alarm	Check and repair at end of trip
00140	Check C3 Defrost Termination Sensor	Alarm	Check and repair at end of trip
Pretrip Alarms			
00141	Pretrip Aborted by User	Alarm	Report and repair immediately
00143	Check Clutch Circuit	Alarm	Report and repair immediately
00144	Check UL1 Circuit	Alarm	Report and repair immediately
00145	Check Speed Circuit	Alarm	Report and repair immediately
00146	Check C2 Heater 1 Circuit	Alarm	Report and repair immediately
00147	Check C2 Heater 2 Circuit	Alarm	Report and repair immediately
00148	Check SV 1 Circuit	Alarm	Report and repair immediately

Alarm	Description	Response	Action
00149*	Check SV 3 Circuit	Alarm	Report and repair immediately
00150	Check SV 4 Circuit	Alarm	Report and repair immediately
00151	Check Engine Preheat Circuit	Alarm	Report and repair immediately
00152	Check FSA Circuit	Alarm	Report and repair immediately
00153	Check Return Air Sensor	Alarm	Report and repair immediately
00154	Check Supply Air Sensor	Alarm	Report and repair immediately
00155	Check Coolant Temp Sensor	Alarm	Report and repair immediately
00156	Not Used	Alarm	Report and repair immediately
00157	Check Battery Circuit	Alarm	Report and repair immediately
00158	Check Ambient Air Sensor	Alarm	Report and repair immediately
00159	Check Defrost Termination Sensor	Alarm	Report and repair immediately
00160	Check Discharge Temp Sensor	Alarm	Report and repair immediately
00161	Check Suction Temp Sensor	Alarm	Report and repair immediately
00162	Check Auto Fresh Air	Alarm	Report and repair immediately
00163	Check C3 Heater 1 Circuit	Alarm	Report and repair immediately
00164	Check UL 2 Circuit	Alarm	Report and repair immediately
00165	Cannot Pump Down	Alarm	Report and repair immediately
00166	Check C2 Supply Air Sensor	Alarm	Report and repair immediately
00167	Check C3 Heater 2 Circuit	Alarm	Report and repair immediately
00168	Not Used	Alarm	Report and repair immediately
00169	Not Used	Alarm	Report and repair immediately

Alarm	Description	Response	Action
00170	Check LIV Circuit	Alarm	Report and repair immediately
00171	System Not Equalized	Alarm	Report and repair immediately
00172	Check Bypass	Alarm	Report and repair immediately
00173	Check Economizer Circuit	Alarm	Report and repair immediately
00174	No Low Speed	Alarm	Report and repair immediately
00175	No High Speed	Alarm	Report and repair immediately
00176	Not Used	Alarm	Report and repair immediately
00177	Check Evaporator Superheat	Alarm	Report and repair immediately
00178	Check UL 1	Alarm	Report and repair immediately
00179	Check LIV	Alarm	Report and repair immediately
00180	Check SMV	Alarm	Report and repair immediately
00181	Check SV 4	Alarm	Report and repair immediately
00182	Check SV 1	Alarm	Report and repair immediately
00183	Check SV 3	Alarm	Report and repair immediately
00184	Check C2 Evaporator Fan	Alarm	Report and repair immediately
00185	Check C3 Evaporator Fan	Alarm	Report and repair immediately
00186	Check Evaporator Outlet Temp	Alarm	Report and repair immediately
00187	Check Heater 1 Circuit	Alarm	Report and repair immediately
00188	Check Heater 2 Circuit	Alarm	Report and repair immediately
00189	Check Evaporator Fan Motor	Alarm	Report and repair immediately
00190	Check Condenser Fan Motor 1	Alarm	Report and repair immediately

Alarm	Description	Response	Action
00191	Check UL 2	Alarm	Report and repair immediately
00192	Check SV 2	Alarm	Report and repair immediately
00194	High Suction Pressure	Alarm	Report and repair immediately
00195	Low Suction Pressure	Alarm	Report and repair immediately
00196	High Discharge Pressure	Alarm	Report and repair immediately
00197	Check Clutch	Alarm	Report and repair immediately
00198	Low Discharge Pressure	Alarm	Report and repair immediately
00199	Check C2 RAT	Alarm	Report and repair immediately
00200	Check UL 1 Cylinder	Alarm	Report and repair immediately
00201	Check UL 2 Cylinder	Alarm	Report and repair immediately
00202	High Side Leak	Alarm	Report and repair immediately
00203	Check Discharge Check Valve	Alarm	Report and repair immediately
00204	Low Suction Pressure	Shut Down	Report and repair immediately
00205	Check Defrost Termination Sensor	Alarm	Report and repair immediately
00206	Check Condenser Fan Motor 1 Circuit	Alarm	Report and repair immediately
00207	Check Compressor Contactor Circuit	Alarm	Report and repair immediately
00208	Check Generator Contactor Circuit	Alarm	Report and repair immediately
00209	Check Standby Contactor Circuit	Alarm	Report and repair immediately
00210	Check C3 RAT	Alarm	Report and repair immediately
00211	Check C2 Defrost Termination Sensor	Alarm	Report and repair immediately
00212	Check C3 Defrost Termination Sensor	Alarm	Report and repair immediately

Alarm	Description	Response	Action
00213*	Check Damper CR2 Circuit	Alarm	Report and repair immediately
00214*	Check Damper CR1 Circuit	Alarm	Report and repair immediately
00215*	Check Damper Not Opening	Alarm	Report and repair immediately
00216*	Check Damper Not Closing	Alarm	Report and repair immediately
Maintenance Alarms			
00223	Maintenance Hour Meter-Total Diesel	Alarm	Check and repair at end of trip
00224	Maintenance Hour Meter-Total Standby	Alarm	Check and repair at end of trip
00225	Maintenance Hour Meter-Total Switch	Alarm	Check and repair at end of trip
00226	Maintenance Hour Meter 1	Alarm	Check and repair at end of trip
00227	Maintenance Hour Meter 2	Alarm	Check and repair at end of trip
00228	Maintenance Hour Meter 3	Alarm	Check and repair at end of trip
00229	Maintenance Hour Meter 4	Alarm	Check and repair at end of trip
00230	Maintenance Hour Meter 5	Alarm	Check and repair at end of trip
Microprocessor Alarms			
00232	Non-Valid Setpoint	Shut Down	Reset*; report reactivation
00233	Non-Valid Model Number	Shut Down	Reset*; report reactivation
00237	Non-Valid Functional Parameter	Shut Down	Reset*; report reactivation
00238	Non-Valid Configuration Parameter	Shut Down	Reset*; report reactivation
00242	Discharge Pressure Transducer Calibration	Shut Down	Reset*; report reactivation
00243	Suction Pressure Transducer Calibration	Shut Down	Reset*; report reactivation
00244	Economizer Pressure Transducer Calibration	Shut Down	Reset*; report reactivation

Alarm	Description	Response	Action
00245	Cannot Save Settings	Alarm	Reset*; report reactivation
00246	Eprom Write Failure	Alarm	Reset*; report reactivation
00248	Configuration Error	Shut Down	Reset*; report reactivation
00249	Microprocessor Error	Shut Down	Reset*; report reactivation
00255	System Failure	Shut Down	Reset*; report reactivation
Alarms 2000 - 2999			
02000	Software Incompatibility	Shut Down	Report and repair immediately
02001	Rear Panel Shutdown	Shut Down	Report and repair immediately
02002	Low Discharge Superheat	Shut Down	Report and repair immediately
02003	Display Failure	Shut Down	Report and repair immediately
02004	Out of Range High	Shut Down	Report and repair immediately
02005	Coil Over Temp	Shut Down	Report and repair immediately
02006	Starter Output F+B260ailure	Shut Down	Report and repair immediately
Start-up / Engine Alarms 3000 - 3999			
03000	Motor Overload #1	Shut Down	Report and repair immediately
03001	Throttle Position Sensor	Alarm	Reset*; report reactivation
03002	Check Clutch Slip	Shut Down	Report and repair immediately
03003	No medium speed	Alarm Only	Reset*; report reactivation
Warning / Status Alarms 4000 - 4999			
04000	Door Open (Remote Switch 3)	Configurable	Reset*; report reactivation
04001	Door Open (Remote Switch 4)	Configurable	Reset*; report reactivation

Alarm	Description	Response	Action
04002	High Economizer Superheat	Alarm	Reset*; report reactivation
04003	In Active/Future Expansion		
04004	No Setpoint Change	Alarm	Re-enter SetPoint
04005	No Setpoint Change Comp 2	Alarm	Re-enter SetPoint
04006	No Setpoint Change Comp 3	Alarm	Re-enter SetPoint
04007	Remote Evap 2 Not Configured	Alarm	Report and repair immediately
04008	Remote Evap 3 Not Configured	Alarm	Report and repair immediately
04009	In Active/Future Expansion		
04010	In Active/Future Expansion		
04011	In Active/Future Expansion		
04012	In Active/Future Expansion		
04013	In Active/Future Expansion		
04014	In Active/Future Expansion		
04015	In Active/Future Expansion		
04016	Check EES	Alarm	Reset*; report reactivation
Electrical Alarms 5000 - 5999			
05002	Check Fuel Pump Relay	Alarm	Report and repair immediately
05003	Check Diesel/Electric Relay	Alarm	Report and repair immediately
05004	Bad F8 Fuse	Alarm	Reset*; report reactivation
05005	Bad F10 Fuse	Alarm	Reset*; report reactivation
05006	Power Enable Fuse Alarm	Alarm	Report and repair immediately

Alarm	Description	Response	Action
05007	F-3 Blown	Alarm	Report and repair immediately
05008	Bad F10 Fuse	Alarm	Report and repair immediately
05009	Check Standby Contactor 1	Shut Down	Report and repair immediately
05010	Check Standby Contactor 2	Shut Down	Report and repair immediately
05011	Check High Speed	Alarm	Report and repair immediately
05012	Check ENCU Power	Alarm	Report and repair immediately
05013	Check Clutch Circuit	Alarm	Report and repair immediately
05014	Check Starter Circuit	Alarm	Report and repair immediately
05015	Check Three Way Valve Circuit	Alarm	Report and repair immediately
05016	Check Remote Light Bar	Alarm	Reset*; report reactivation
05017	Check Preheat Circuit	Alarm	Reset*; report reactivation
05018	Check PER Circuit	Alarm	Reset*; report reactivation
05019	Check CDCON 2 Circuit	Alarm	Reset*; report reactivation
05020	Check Heater Contactor 1 Circuit	Alarm	Reset*; report reactivation
05021	Check Heater Contactor 2 Circuit	Alarm	Reset*; report reactivation
05022	Check C2 High Temp Thermostat	Alarm	Reset*; report reactivation
05023	Check C3 High Temp Thermostat	Alarm	Reset*; report reactivation
05024	Standby Motor	Shut Down	Report and repair immediately
05025	Check Power Source Contactor	Shut Down	Report and repair immediately
05026	Check A/C Phase	Shut Down	Report and repair immediately
05027	Generator Overheat	Shut Down	Report and repair immediately

Alarm	Description	Response	Action
05028	Bad PM Fuse 2	Alarm	Report and repair immediately
05029	Bad PM Fuse 3/5/7	Alarm	Report and repair immediately
05030	Bad PM Fuse 4	Alarm	Report and repair immediately
05031	Bad PM Fuse 10	Alarm	Report and repair immediately
05032	Bad PM Fuse 11	Alarm	Report and repair immediately
05033	Check PER Circuit	Shut Down	Report and repair immediately
05034	Check PER Contacts	Shut Down	Report and repair immediately
05035	EVXV Fault	Alarm	Reset*; report reactivation
05036	ECXV Fault	Alarm	Reset*; report reactivation
05037	SMV Fault	Alarm	Reset*; report reactivation
05038	Compartment 2 EVXVI Fault	Alarm	Reset*; report reactivation
05039	Compartment 2 EVXV2 Fault	Alarm	Reset*; report reactivation
05040	Compartment 2 EVXVI Fault	Alarm	Reset*; report reactivation
05041	Compartment 2 EVXV2 Fault	Alarm	Reset*; report reactivation
05042	Auxiliary Battery Voltage High	Alarm	Reset*; report reactivation
05043	Auxiliary Battery Voltage Low	Alarm	Reset*; report reactivation
05044	Stepper Board Voltage Low	Alarm	Reset*; report reactivation
06000	Condenser Fan 2 Overload	Shut Down	Report and repair immediately
06002	Compressor Protect Mode	Shut Down	Reset*; report reactivation
06003	Check Evaporator Fan 2 Circuit	Alarm	Report and repair immediately

Alarm	Description	Response	Action
06004	Check Defrost Drain Heater Circuit	Alarm	Reset*; report reactivation
06005	Check Electric/Water Heat Circuit	Alarm	Reset*; report reactivation
06006	Defrost Drain Heater C2	Alarm	Reset*; report reactivation
06007	Defrost Drain Heater C3	Alarm	Reset*; report reactivation
Sensor Alarms 7000 - 7999			
07000	Check Economize Temp Sensor	Alarm	Reset*; report reactivation
07001	Check Economizer Pressure Transducer	Alarm	Reset*; report reactivation
07002	Check C3 Supply Air Sensor	Alarm	Reset*; report reactivation
07003	Check C2 Evaporator Outlet Sensor	Alarm	Reset*; report reactivation
07004	Check C3 Evaporator Outlet Sensor	Alarm	Reset*; report reactivation
07005	Check Engine OP Switch (TDO)	Alarm	Reset*; report reactivation
07006	Check Suction Pressure Transducer	Alarm	Reset*; report reactivation
07007	Compressor A/C Current	Alarm	Reset*; report reactivation
07008	Check Redundant RAT	Alarm	Reset*; report reactivation
07009	RAT Temp Sensor Out of Range	Alarm	Reset*; report reactivation
07010	Check Redundant SAT	Alarm	Reset*; report reactivation
07011	Check Evaporator Pressure Sensor	Alarm	Reset*; report reactivation
07012	Check Economizer Pressure Sensor	Alarm	Reset*; report reactivation
07013	Check Compressor Discharge Pressure Sensor	Alarm	Reset*; report reactivation
07014	Check C2 Redundant RAT	Alarm	Reset*; report reactivation

Alarm	Description	Response	Action
07015	C2 RAT Tenp Sensor Out of Range	Alarm	Reset*; report reactivation
Pre-Trip Alarms 11000 – 17999			
11000	Check Condenser Fan Motor 2	Alarm	Reset*; report reactivation
11001	Check Standby Contactor Circuit	Alarm	Reset*; report reactivation
11002	Check Hot Gas Valve (Supra)	Alarm	Reset*; report reactivation
11003	Check Evap Fan 1 & 2 (Supra)	Alarm	Reset*; report reactivation
11004	Check Evap Fan 3 (Supra)	Alarm	Reset*; report reactivation
11005	Check Defrost Drain Heater 2		Reset*; report reactivation
11006	Check Defrost Drain Heater 3		Reset*; report reactivation
12000	Check Supply Air Sensor C3	Alarm	Reset*; report reactivation
12001	Check EVOT Sensor C2	Alarm	Reset*; report reactivation
12002	Check EVOT Sensor C3	Alarm	Reset*; report reactivation
12003	Check Economizer Sensor	Alarm	Reset*; report reactivation
13000	Check Condenser Fan 2 Circuit	Alarm	Reset*; report reactivation
13001	Check Hot Gas Valve Circuit (Supra)	Alarm	Reset*; report reactivation
14000	Check Evap 1 Superheat C2	Alarm	Reset*; report reactivation
14001	Check Evap 2 Supreheat C2	Alarm	Reset*; report reactivation
14002	Check Evap 1 Superheat C3	Alarm	Reset*; report reactivation
14003	Check Evap 2 Supreheat C3	Alarm	Reset*; report reactivation
15001	No Medium Speed (Supra)	Alarm	Reset*; report reactivation
15002	In Active/Future Expansion		

Alarm	Description	Response	Action
15003	In Active/Future Expansion		
15004	In Active/Future Expansion		
17000	Check EES Air Control Valve	Alarm	Reset*; report reactivation
17001	Check EES Fueling System	Alarm	Reset*; report reactivation
Microprocessor Alarms 20000 – 29999			
GTD Alarms			
20100	No communication from Micro to Display	Shut Down	Report and repair immediately
20101	No communication from Micro to Remote Display	Shut Down	Report and repair immediately
MMB Alarms			
21100	No Comm from Micro to any Module	Shut Down	Report and repair immediately
INPBD1 Alarms			
22100	No Comm from Micro to Input Board 1	Shut Down	Report and repair immediately
22101	Input Voltage Low to Input Board 1	Alarm	Reset*; report reactivation
22102	Input Voltage High to Input Board 1	Alarm	Reset*; report reactivation
22103	Configuration Error Input Board 1	Shut Down	Report and repair immediately
22400	MSM1 Input CAN Fail	Shut Down	Report and repair immediately
22401	MSM1 Input Voltage Low	Alarm	Reset*; report reactivation
22402	MSM1 Input Voltage High	Alarm	Reset*; report reactivation
22403	MSM1 Input Lost Configuration	Shut Down	Report and repair immediately
22500	No Comm from MSM2 to Input Board	Shut Down	Report and repair immediately

Alarm	Description	Response	Action
22501	Sensor Input Voltage Low to MSM2	Alarm	Reset*; report reactivation
22502	Sensor Input Voltage High to MSM2	Alarm	Reset*; report reactivation
22503	Configuration Error MSM2	Shut Down	Report and repair immediately
22800	No Comm from MCA to Input Board	Shut Down	Report and repair immediately
22801	Sensor Input Voltage Low to MCA	Alarm	Reset*; report reactivation
22802	Sensor Input Voltage High to MCA	Alarm	Reset*; report reactivation
22803	Configuration Error MCA	Shut Down	Report and repair immediately
OTBD1 Alarms			
23100	No Comm from Micro to Output Board 1	Shut Down	Report and repair immediately
23101	Configuration Error Output Board 1	Shut Down	Report and repair immediately
23800	PM CAN Fail	Shut Down	Report and repair immediately
23801	Power Module Lost Configuration	Shut Down	Report and repair immediately
23803	Configuration Error TPC	Shut Down	Report and repair immediately
CCB Alarms			
24100	No Comm for CCB1	Shut Down	Report and repair immediately
24101	Sensor Input Volatage Low to CCB1	Alarm	Reset*; report reactivation
24102	Sensor Input Voltage High to CCB1	Alarm	Reset*; report reactivation
24103	CCB Lost Configuration	Shutdown	Report and repair immediately
24200	CCB CAN Fail	Shut Down	Report and repair immediately
24201	Sensor Input Volatage Low to CCB2	Alarm	Reset*; report reactivation
24202	Sensor Input Voltage High to CCB2	Alarm	Reset*; report reactivation


Alarm	Description	Response	Action
24203	CCB Lost Configuration	Shutdown	Report and repair immediately
24300	No Comm for CCB3	Shut Down	Report and repair immediately
24301	Sensor Input Volatage Low to CCB3	Alarm	Reset*; report reactivation
24302	Sensor Input Voltage High to CCB3	Alarm	Reset*; report reactivation
24303	CCB3 Lost Configuration	Shutdown	Report and repair immediately
24400	No Comm for CCB4	Shut Down	Report and repair immediately
24401	Sensor Input Volatage Low to CCB4	Alarm	Reset*; report reactivation
24402	Sensor Input Voltage High to CCB4	Alarm	Reset*; report reactivation
24403	CCB4 Lost Configuration	Shutdown	Report and repair immediately
STP Alarms			
25100	No Comm from Stepper 1	Shut Down	Report and repair immediately
25101	Stepper 1 Over Current	Alarm	Reset*; report reactivation
25102	Input Voltage Out of Range Stepper 1	Alarm	Reset*; report reactivation
25200	No Comm from Stepper 2	Shut Down	Report and repair immediately
25201	Stepper 2 Over Current	Alarm	Reset*; report reactivation
25202	Input Voltage Out of Range Stepper 2	Alarm	Reset*; report reactivation
25300	No Comm from Stepper 3	Shut Down	Report and repair immediately
25301	Stepper 3 Over Current	Alarm	Reset*; report reactivation
25302	Input Voltage Out of Range Stepper 3	Alarm	Reset*; report reactivation
25400	No Comm from Stepper 4	Shut Down	Report and repair immediately
25401	Stepper 4 Over Current	Alarm	Reset*; report reactivation

Alarm	Description	Response	Action
25402	Input Voltage Out of Range Stepper 4	Alarm	Reset*; report reactivation
25500	Tri-Stepper CAN Fail	Shut Down	Report and repair immediately
25501	Tri-Stepper Over Current	Alarm	Reset*; report reactivation
25502	Tri-Stepper Input Voltage	Alarm	Reset*; report reactivation
25503	Tri-Stepper Lost Config	Shut Down	Report and repair immediately
25600	No Comm from Tri-Stepper 2	Shut Down	Report and repair immediately
25601	Tri-Stepper 2 Over Current	Alarm	Reset*; report reactivation
25602	Input Voltage Out of Range Tri-Stepper 2	Alarm	Reset*; report reactivation
25603	Configuration Error Tri-Stepper 2	Shut Down	Report and repair immediately
25800	No Comm from SIOB	Shut Down	Report and repair immediately
25801	SIOB Over Current	Alarm	Reset*; report reactivation
25802	Input Voltage Out of Range SIOB	Alarm	Reset*; report reactivation
25803	Configuration Error SIOB	Shut Down	Report and repair immediately
ENCU1 Alarms			
26100	No Comm from ENCU	Shut Down	Report and repair immediately
26101	Engine Over Heat ENCU	Alarm	Reset*; report reactivation
26102	In Active/Future Expansion		
26103	In Active/Future Expansion		
26104	In Active/Future Expansion		
26105	Engine Overrun (Kubota)	Shut Down	Report and repair immediately
26106	Sensor Supply Voltage to ENCU Low	Shut Down	Report and repair immediately

Alarm	Description	Response	Action
26107	Oil Pressure Error (Kubota)	Alarm	Reset*; report reactivation
26108	In Active/Future Expansion		
26109	Check Actuator (Kubota)	Shut Down	Report and repair immediately
26110	Check RPM Sensor (Kubota)	Shut Down	Report and repair immediately
26111	In Active/Future Expansion		
26112	In Active/Future Expansion		
EES Alarms			
26200	No Comm from EES Module	Alarm	Reset*; report reactivation
26201	EES Service Required	Alarm	Reset*; report reactivation
26202	EES High Back Pressure	Alarm	Reset*; report reactivation
26203	EES Low Back Pressure	Alarm Only	Reset*; report reactivation
26204	EES ECU Low Voltage	Alarm Only	Reset*; report reactivation
26205	EES Filter Inlet Temp	Alarm Only	Reset*; report reactivation
26206	EES Check Fuel Pump Circuit	Alarm Only	Reset*; report reactivation
26207	EES Check Air Control Valve	Alarm Only	Reset*; report reactivation
26208	EES Check Fuel Injection Circuit	Alarm Only	Reset*; report reactivation
26209	EES Filter Outlet Temp	Alarm Only	Reset*; report reactivation
26210	EES Exhaust Inlet Temp	Alarm Only	Reset*; report reactivation
26211	EES ECU Output Failure	Alarm Only	Reset*; report reactivation
26212	EES ECU Log Failure	Alarm Only	Reset*; report reactivation
26213	EES ECU Clock Failure	Alarm Only	Reset*; report reactivation

Alarm	Description	Response	Action
26214	EES ECU Temp Low	Alarm Only	Reset*; report reactivation
26215	EES ECU Temp High	Alarm Only	Reset*; report reactivation
26216	EES No Temp Rise	Alarm Only	Reset*; report reactivation
26217	EES System Failure	Shutdown	Report and repair immediately
26218	EES System Overtemp	Shutdown	Report and repair immediately
26219	EES Temp Sensor Drift	Alarm Only	Reset*; report reactivation
26220	EES Back Pressure Exceeded	Alarm Only	Reset*; report reactivation
26221	EES Frequent Regeneration	Alarm Only	Reset*; report reactivation
26222	EES Back Pressure Offset Exceeded	Alarm Only	Reset*; report reactivation
Engine Alarms			
26300	ENCU Comm Failure (TDO Only)	Shutdown	Report and repair immediately
26301	ENCU Alarm (TDO Only)	Alarm Only	Reset*; report reactivation
26302	ENCU Alarm (TDO Only)	Alarm Only	Reset*; report reactivation
26500	Incompatible ENCU	Shutdown	Report and repair immediately
Comm Alarms			
27100	Loss of Communication to Comm Module	Shutdown	Report and repair immediately
27200	Loss of Communication to Optional Comm Module	Alarm Only	Report and repair immediately
28001	No Comm from Fuel Sensor	Alarm Only	Reset*; report reactivation
28002	No Comm from Door Switch	Alarm Only	Reset*; report reactivation
28003	Invalid 3rd Party Door Switch	Alarm Only	Reset*; report reactivation

Alarm	Description	Response	Action
28004	Invalid REMS1	Alarm Only	Reset*; report reactivation
28005	Invalid REMS2	Alarm Only	Reset*; report reactivation
28006	Invalid REMS3	Alarm Only	Reset*; report reactivation
28007	Invalid REMS4	Alarm Only	Reset*; report reactivation
28008	No Comm From Fuel Flow Meter	Alarm Only	Reset*; report reactivation
29000	Alternator Electric Issue	Shutdown	Report and repair immediately
29001	Alternator High Temp	Shutdown	Report and repair immediately
29002	Alternator Belt Broken	Shutdown	Report and repair immediately
29003	Alternator Belt Slip	Alarm Only	Reset*; report reactivation
29004	LIN Comm Error	Alarm Only	Reset*; report reactivation
29005	LIN Comm Timeout	Alarm Only	Reset*; report reactivation
29006	No Comm to Alternator	Shutdown	Report and repair immediately
29007	Power Frequency	Alarm Only	Reset*; report reactivation

 **WARNING:** Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.

For more information, go to www.P65warnings.ca.gov/diesel



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