

**Commonwealth Trailer Rentals, Inc.**  
**Carrier Alarm Code Guide**  
**CTR Breakdown Line: 866-839-3495**

Green = Notification Alarm

Yellow = Caution Alarm

Red = Shut Down Alarm

**Driver Alarms**

Alarm	Message
00001	Low Fuel Level Warning
00002	Low Engine Oil Level Warning
00003	Low Coolant Level
00004	Low Refrigerant Level
00006	Damper Requires Newer Micro
00007	EES Regen Failure

**Shutdown Alarms**

Alarm	Message
00011	Check/Low Engine Oil Pressure
00012	High Coolant Temp
00013	High Discharge Pressure
00014	High A/C Amps
00015	Battery Voltage Too High
00016	Battery Voltage Too Low
00017	High Compressor Discharge Temperature
00018	Low Refrigerant Pressure
00019	Low Fuel Shutdown
00020	Maximum Compressor Alarms
00021	Technician Reset Required
00022	Low Suction Superheat
00023	A/C Current Over Limit
00024	Compression Ratio Exceeded
00025	Check Damper System
00027	High Suction Pressure
00028	Check Refrigeration System
00029	Check Heat Cycle

**Start-Up/Engine Alarms**

Alarm	Message
00030	Failed to Run Minimum Time
00031	Failed to Start - Auto Mode
00032	Failed to Start - Manual
00034	Engine Failed to Stop

### Start-Up/Engine Alarms cont.

Alarm	Message
00035	Check Starter Circuit
00036	Check Coolant Temp
00037	Check Low Speed RPM
00038	Check High Speed RPM
00039	Check Engine RPM
00040	Check Engine Preheat Circuit
00041	Engine Stalled

### Warning/Status Alarms

Alarm	Message
00051	Alternator (Battery Charger) Not Charging
00053	Box Temp Out of Range
00054	Defrost Not Complete
00055	Check Defrost Air Switch
00056	Check Evaporator Air Flow
00057	Check Remote Switch 1
00058	Check Remote Switch 2
00059	Datalogger Not Recording
00060	Datalogger Time Wrong
00061	Door Open
00062	C2 Box Temp Out of Range
00063	C3 Box Temp Out of Range
00064	Damper Positioning Failure (Small Motor)
00065	Check Damper Not Closing (Small Motor)
00066	Check EVAP Sensor Group

### Electrical Alarms

Alarm	Message
00071	Bad F2 or F3 Fuse
00072	Bad F4 or F6 Fuse
00073	No A/C Power - Check Cord
00074	AC Phase Reversed
00075	Compressor Motor Overload
00076	Condenser Motor Overload
00077	Evaporator Motor Overheated
00078	Check SV1 Circuit
00079	Check SV4 Circuit
00080	Check SV3 Circuit
00081	Check FHR Circuit
00082	Check Remote out of Range Light
00083	Check Remote Defrost Light
00084	Check Remote Alarm Light
00085	Check UL1 Circuit

## Electrical Alarms cont.

Alarm	Message
00086	Check UL2 Circuit
00087	Check Remote Heat Light
00088	Check Remote Cool Light
00089	Check Remote Auto Light
00090	Check AFA Solenoid Circuit
00091	Check 1HTCON1 Relay Coil
00092	Check 1HTCON2 Relay Coil
00093	Check Start Up Buzzer
00094	Check Compressor Contactor 1
00095	Check CDCON Relay Coil
00096	Check GENCONR Relay Coil
00097	Check SV2 Circuit
00098	Check High Temp. Thermostat
00099	Check Standby Contactor
00100	Overload/Ground Fault
00101	C2 Evaporator Motor Overheated
00102	C3 Evaporator Motor Overheated
00103	Check 2HTCON1 Relay Coil
00104	Check 2HTCON2 Relay Coil
00105	Check 3HTCON1 Relay Coil
00106	3HTCON2 Relay Coil
00107	Check 2LSV Circuit
00108	Check 3LSV Circuit
00109	Check 1EVCON Relay Coil
00110	Check 2EVCON Relay Coil
00111	Check 3EVCON Relay Coil
00112	Check Bypass Circuit
00113	Check Economizer Circuit
00114	Check LIV Circuit
00117	Check DCR2 Circuit
00118	Check Damper Motor Circuit

## Sensor Alarms

Alarm	Message
00120	Check Damper Motor Sensor (Small Motor)
00121	Check Ambient Air Sensor
00122	Check Return Air Sensor
00123	Check Supply Air Sensor
00124	Check Defrost Termination 1 Sensor
00125	Check Compressor Discharge Sensor
00126	Check Fuel Sensor Circuit
00127	Check Suction Temperature Sensor
00128	Low/Unbalanced A/C Amps
00129	Check Engine Coolant Sensor

## Sensor Alarms cont.

Alarm	Message
00130	Check Engine RPM Sensor
00131	Check Evaporator
00132	Check Defrost Termination 2 Sensor
00133	Check Remote Temperature Sensor 1
00134	Check Remote Temperature Sensor 2
00135	Check Remote Temperature Sensor 3
00136	C2 Check Supply Air Sensor
00137	C2 Check Return Air Sensor
00138	C3 Check Return Air Sensor
00139	C2 Check Defrost Sensor
00140	C3 Check Defrost Sensor

## Pretrip Alarms

Alarm	Message
P00141	Pretrip Stopped by User
P00143	Check Clutch Circuit
P00144	Check UL1 Circuit
P00145	Check Speed Solenoid Circuit
P00146	C2 Check Heater 1 Circuit
P00147	C2 Check Heater 2 Circuit
P00148	Check SV1 Circuit
P00149	Check SV3 Circuit
P00150	Check SV4 Circuit
P00151	Check Engine Preheat Enable Circuit
P00152	Check Fuel Solenoid Circuit
P00153	Check Return Air Sensor
P00154	Check Supply Air Sensor
P00155	Check Coolant Temperature Sensor
P00156	Check Bypass Circuit
P00157	Check Battery Current
P00158	Check Ambient Air Sensor
P00159	Check Defrost Term 1 Sensor
P00160	Check Discharge Temperature Sensor
P00161	Check Suction Temperature Sensor
P00162	Check AFA Solenoid Circuit
P00163	C3 Check Heater 1 Circuit
P00164	Check UL2 Circuit
P00165	Can Not Pump Down
P00166	C2 Check Supply Air Sensor
P00167	C3 Check Heater 2 Circuit
P00168	C2 Check LSV Valve
P00169	Check Economizer Circuit
P00170	Check LIV Circuit
P00171	System Not Equalized

## Pretrip Alarms cont.

Alarm	Message
P00172	Check Bypass
P00173	Check Economizer
P00174	Check Low Speed RPM
P00175	Check High Speed RPM
P00176	C3 Check LSV Valve
P00177	Check Evaporator Superheat
P00178	Check UL1
P00179	Check LIV
P00180	Check Suction Modulator Valve
P00181	Check SV4 Valve
P00182	Check SV1 Valve
P00183	Check SV3 Valve
P00184	C2 Check Evaporator Fan Motor
P00185	C3 Check Evaporator Fan Motor
P00186	Check Evaporator Outlet Temperature
P00187	Check Heater 1 Circuit
P00188	Check Heater 2 Circuit
P00189	Check Evaporator Fan Motor
P00190	Check Condenser Fan Motor
P00191	Check UL2
P00192	Check SV2 Circuit
P00194	High Suction Pressure
P00195	Low Suction Pressure
P00196	High Discharge Pressure
P00197	Check Clutch
P00198	Low Discharge Pressure
P00199	C2 Check Return Air Sensor
P00200	Check UL1 Cylinders
P00201	Check UL2 Cylinders
P00202	High Side Leak
P00203	Check Discharge Check Valve
P00204	Low Suction Pressure
P00205	Check Defrost Term 2 Sensor
P00206	Check Condenser Fan Circuit
P00207	Check Compressor Contact Circuit
P00208	Check Generator Contact Circuit
P00209	Check Standby Contact Circuit
P00210	C3 Check Return Air Sensor
P00211	C2 Check Defrost Sensor
P00212	C3 Check Defrost Sensor
P00213	Check Damper CR2 Circuit
P00214	Check Damper CR1 Circuit
P00215	Check Damper - Not Open
P00216	Check Damper - Not Closing

## Maintenance Alarms

Alarm	Message
00223	Engine Maintenance Due
00224	Standby Maintenance Due
00225	General Maintenance Due
00226	Service Soon PM 1 Due
00227	Service Soon PM 2 Due
00228	Service Soon PM 3 Due
00229	Service Soon PM 4 Due
00230	Service Soon PM 5 Due

## Microprocessor Alarms

Alarm	Message
00232	Setpoint Error
00233	Model # Error
00237	Function Parameter Error
00238	Configurations Error
00242	Discharge Pressure Calibrate Error
00243	Suction/Evaporator Calibration Error
00244	Economizer Calibration Error
00245	Can Not Save Setting
00246	EEPROM Write Failure
00248	Configuration Mode/HP2 Error
00255	Microprocessor Error

## Alarms 2000-2999

Alarm	Message
02000	Update Software
02001	Rear Panel Shutdown Requested
02002	Low Discharge Superheat
02003	Display Module Error
02004	Out of Range High
02005	Coil Over Temperature

## Start-Up/Engine Alarms 3000-3999

Alarm	Message
03000	Motor Overload 1
03001	Engine Load Calibration
03002	Check Clutch Slip

## Warning/Status Alarms 4000-4999

Alarm	Message
04000	Check Remote Switch 3
04001	Check Remote Switch 4

### Warning/Status Alarms 4000-4999 cont.

Alarm	Message
04002	High Economizer Superheat
04003	DC Battery Over Current
04004	No Setpoint Change
04005	No Setpoint Change C2
04006	No Setpoint Change C3
04007	Not Configured for C2
04008	Not Configured for C3
04016	Check EES Configuration

### Electrical Alarms 5000-5999

Alarm	Message
05002	Fuel Pump Relay
05003	Diesel/Electric Relay
05004	Bad F13 Fuse
05005	Bad F9 Fuse
05006	Bad F5 Fuse
05007	Bad F3 Fuse
05008	Bad F10 Fuse
05009	Check Standby Contactor 1
05010	Check Standby Contactor 2
05011	Check High Speed Control Circuit
05012	Check ENSCU Power Circuit
05013	Check Clutch Circuit
05014	Check Starter Solenoid Circuit
05015	Check Hot Gas Valve Circuit
05016	Check Remote Amber Light
05017	Check Engine Preheat Enable Circuit
05018	Check Power Enable Control
05019	Check CDCON Relay Coil 2
05020	Check Htr Cntr One
05021	Check Htr Cntr Two
05022	C2 Check High Temp Thermostat
05023	C3 Check High Temp Thermostat
05024	Check Standby Contactor
05025	Check Standby Contactor
05026	Check AC and Phase
05027	Generator Overheat

### Electrical Alarms 6000-6999

Alarm	Message
06000	Condenser Motor 2 Overheated
06001	Check Light Bar
06002	Compressor Protect Mode

### Sensor Alarms 7000-7999

Alarm	Message
07000	Economizer Temperature Sensor
07001	Economizer Pressure Sensor
07002	C3 Check Supply Air Sensor
07003	C2 Check Evaporator Sensor
07004	C3 Check Supply Air Sensor
07006	Suction Pressure Sensor
07007	Compressor AC Current
07008	Check Redundant RAT Sensor
07009	RAT Temperature Sensor Out of Range

### Pre-Trip Alarms 11000-17999

Alarm	Message
P11000	Check Condenser Fan Motor 2
P11001	Check Standby Contactor 2 Circuit
P12000	C3 Check Supply Air Sensor
P12001	C2 Check Evaporator Outlet Temperature
P12002	C3 Check Evaporator Outlet Temperature
P13000	Check Condenser Fan 2 Circuit
P14000	C2 Check Evaporator 1 Superheat
P14001	C2 Check Evaporator 2 Superheat
P14002	C3 Check Evaporator 1 Superheat
P14003	C3 Check Evaporator 2 Superheat
P17000	Check EES Air Control Valve
P17001	Check EES Fueling System

### Microprocessor Alarms 20000-29999

#### GTD Alarms

Alarm	Message
20100	No Communication From Micro to Display
20101	No Communication From Micro to Remote Display

#### MMB Alarms

Alarm	Message
21100	No Communication From Any Board to Main Micro

#### INPBD1 Alarms

Alarm	Message
22100	No Communication From Micro to INPBD1
22101	Sensor Input Voltage Low INP1
22102	Sensor Input Voltage High INP1
22103	Input Lost Configuration
23100	No Communication From Micro to Outbd1



### INPBD1 Alarms cont.

Alarm	Message
23101	Output Lost Configuration
24100	No Communication From Micro to CCB1
24101	Sensor Input Voltage Low CCB1
24102	Sensor Input Voltage High CCB1
24200	No Communication From Micro to CCB2
24201	Sensor Input Voltage Low CCB2
24202	Sensor Input Voltage High CCB2
24300	No Communication From Micro to CCB3
24301	Sensor Input Voltage Low CCB3
24302	Sensor Input Voltage High CCB3
24400	No Communication From Micro to CCB4
24401	Sensor Input Voltage Low CCB4
24402	Sensor Input Voltage High CCB4

### STP Alarms

Alarm	Message
25100	No Communication From Micro to STP1
25101	Over Current STP1
25102	Check Input Voltage STP1
25200	No Communication From Micro to STP2
25201	Over Current STP2
25202	Check Input Voltage STP2

### ENCU1 Alarms

Alarm	Message
25300	No Communication From Micro to STP3
25301	Over Current STP3
25302	Check Input Voltage STP3
25400	No Communication From Micro to STP4
25401	Over Current STP4
25402	Check Input Voltage STP4
26100	No Communication From Micro to ENCU
26101	Engine Over Heat ENCU
26102	Water Temp Low ENCU
26103	Water Temp High ENCU
26104	Battery Voltage High ENCU
26105	Engine Overrun ENCU
26106	Sensor Supply Voltage 1 Low ENCU
26107	Oil Pressure Error ENCU
26108	Rack Position Abnormal ENCU
26109	Actuator Abnormal ENCU
26110	Engine Speed Sensor ABN ENCU
26111	Intake Air Pressure Low ENCU

## ENCU1 Alarms cont.

### Alarm

### Message

26112

Intake Air Pressure High ENCU

## EES Alarms

### Alarm

### Message

26200

EES Loss of Communication to Controller

26201

EES Service Required

26202

EES High Back Pressure

26203

EES Low Back Pressure

26204

EES ECU Voltage Low

26205

EES Filter Inlet Temperature

26206

EES Check Fuel Pump Circuit

26207

EES Check Air Control Valve

26208

EES Check Fuel Injector Circuit

26209

EES Filter Outlet Temperature

26210

EES Exhaust Inlet Temperature

26211

EES ECU Output Failure

26212

EES ECU Log Failure

26213

EES ECU Clock Failure

26214

EES ECU Temperature Low

26215

EES ECU Temperature High

26216

EES No Temperature Rise

26217

EES System Failure

26218

EES System Over Temperature

26219

Temperature Sensor Drift

26220

EES Back Pressure Exceeded

26221

EES Frequent Regenerations

26222

EES Back Pressure Offset Exceeded

## Engine Alarms

### Alarm

### Message

26300

ENCU CAN Comm. Failure

26301

Engine Shutdown Alarm

26302

Engine Warning Alarm

## Comm. Alarms

### Alarm

### Message

27100

No Communication From Micro to Comm. Module

27200

No Comm. From Micro to Optional Comm. Mod.

28001

No Communication From Fuel Sensor

28002

No Communication From Door Switch

28003

Invalid 3rd Party Door Switch

28004

Invalid 3rd Party REMS1

28005

Invalid 3rd Party REMS2

**Comm Alarms cont.**

**Alarm**

**Message**

**28006**

**Invalid 3rd Party REMS3**