Troubleshooting Guide
CTTG #139

This document pertains to all Commander larger CDE models

CDE TRIPS (MEDIUM / LARGE AND HPCDE)

When a failure occurs with the CDE drive the display will flash a series of segment characters for the trip. Example) tr iP 0U

Commander CDE series stores the past ten failure codes in parameters #10.14 – 10.23 in trip number form. A numeric value trip code is a basic form of the symptom for the technician to work with. These past trips can be accessed via the keypad by entering the value of 149 in the keypad at parameter 00.

Scroll to menu 10, for parameter #10.14 to see a trip number.
Example) 6

Symptom explanations provide an avenue on how to analyze the drive for particular problems.

To make the troubleshooting process easier a chart was created to link the type of trip with the symptom.

TRIP Display	TRIP NUMBER	SYMPTOM
cL 1	1	4-20mA Loop of current loop 1
Et	2	External trip contact has opened
I.t	3	Overload Ixt- Sustained Overcurrent
Oh	4	Heatsink over temperature-Fan Failure ???
OI AC	5	Instantaneous AC over current trip
OU	6	DC bus over voltage-Braking Resistor Problem
Ph	7	AC Supply phase loss
PS	8	Internal power supply fault
th	9	Motor thermistor trip-Hot Motor
OI dC	10	Instantaneous DC over current trip
EPS	11	External power supply fault +24vdc short ?
thS	12	Motor thermistor short circuit
UU	13	DC bus under voltage
SCL	14	Serial comms. Loss- Keypad loose/failure
POdL	15	Loss of Control keypad
cL2	16	4-20mA Loop Loss of current loop 2
cL3	17	4-20mA Loop Loss of current loop 3
EEF	18	EEPROM
Prc2	19	Processor 2 fault
OA	20	Ambient over temperature
rS	21	Stator resistance measurement failure
OUSP	22	Overspeed trip
hFPP	26-39	Hardware fault
PhPC	100	AC supply phase loss from a drive module
OtPC	101	Over temperature trip in a Drive module
OtPn	102-109	Over temperature trip in Drive Module #n
PSPn	110-117	Power supply trip in Drive Module #n
I OPn	118-125	Instantaneous Over current in Drive #n
OuPn	126-133	Over voltage trip in Drive Module #n
dcPn	134-141	Instantaneous DC current trip in Drive #n
FtyP	142	Spurious Unidentified trip
ConF	143	Module Address switches incorrect
8.8.8.8.	-	I x t trip Warning (flashing dots)-In Overload

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