

TROUBLESHOOTING

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APPENDICES

Appendix A: Servo Command Summary

CDB	Define or report deadband
CDG	Define or report derivative gain
CDM	Define or report derivative maximum
CIG	Define or report integral gain
CIL	Define or report maximum size of integrator
CIM	Define or report integral maximum
CMR	Define or report motor resolution
CMTR	Define or report motor type
CPG	Define or report proportional gain
CPE	Define or report position error
CPM	Define or report proportional maximum
CVG	Define or report velocity gain
CVM	Define or report velocity maximum
DCA	Periodically displays/reports average current in Amperes.
DCI	Periodically displays/reports current on an instantaneous basis
DCP	Periodically displays/reports peak current
DFS	Returns all of the servo status flags
DPA	Periodically displays/reports the actual position.
DPE	Periodically displays/reports position error.
DPR	Periodically displays/reports the resolver position.
DPS	Periodically displays/reports the position setpoint
DTP	Displays all tuning parameters
DVA	Periodically displays/reports actual velocity
DVS	Periodically displays/reports the velocity setpoint
HELP	Access help menu
IS	Reports Input status
K	Kill command
LD	Enable/disable limit switches
ON	Ramps the current motor to zero (same as ST command)
OFF	Ramps the current motor to zero (same as ST command)
RFS	Returns the drive to factory settings
RSE	Reports servo errors
RV	Software Revision level reported
SS	Sets/reports the interactive mode
ST0	Turns the power amplifier off
ST1	Turns the power amplifier on
SV,	
SAVE	Saves servo and set-up parameters in EEPROM
Z	Resets the drive

## APPENDICES

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### Appendix B: Summary of Error Conditions

The following summaries list all the abnormal conditions one may encounter with the Compumotor Plus-Drive. Under each condition is a list of the indicators for that condition.

#### 1. Operation Error Conditions

##### SLIP FAULT:

SLIP FAULT output - ACTIVE

##### SHUTDOWN:

FAULT OUTPUT - ACTIVE

##### ERRORS AND FAULTS:

FAULT OUTPUT - ACTIVE

"LRSE" diagnostic messages --

<u>CODE</u>	<u>CONDITION</u>
13	Changing COMMAND2 input
20	Excessive position error
22	Maximum average current exceeded
23	Drive enable not active
30	EEPROM checksum error
60	RS-232C commanded shutdown
61	Incoming indexer pulses

#### 2. Hardware Error Conditions

##### CONTROLLER:

FAULT OUTPUT - INACTIVE

SLIP FAULT - INACTIVE

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