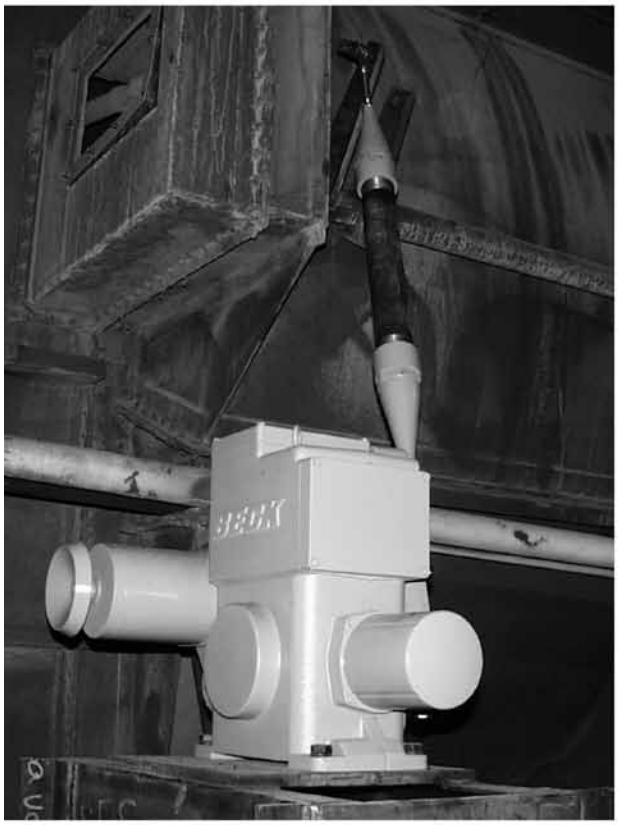
80-1103-00
Rev. 01.7

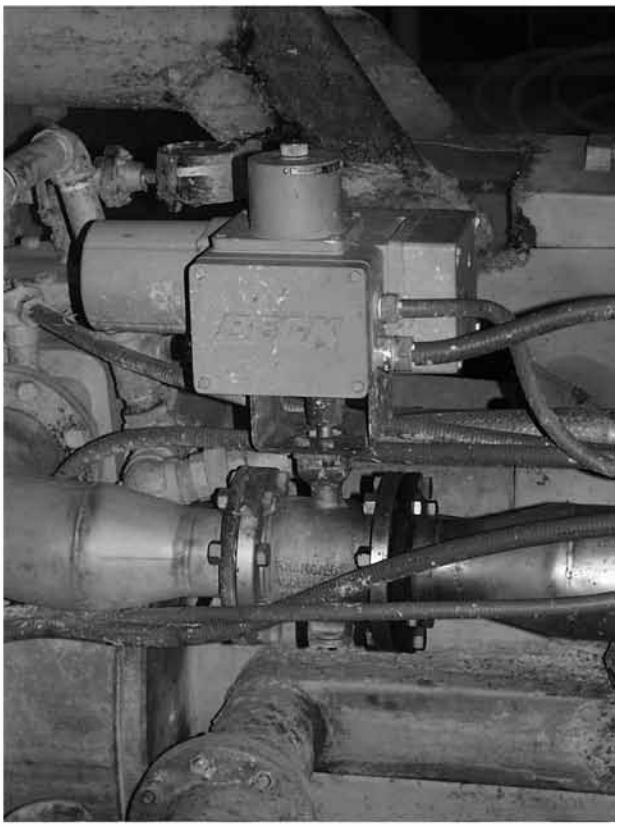
EXCERPT

MODELS 11-1_9
11-2_9
11-3_9
11-4_9

BECK®

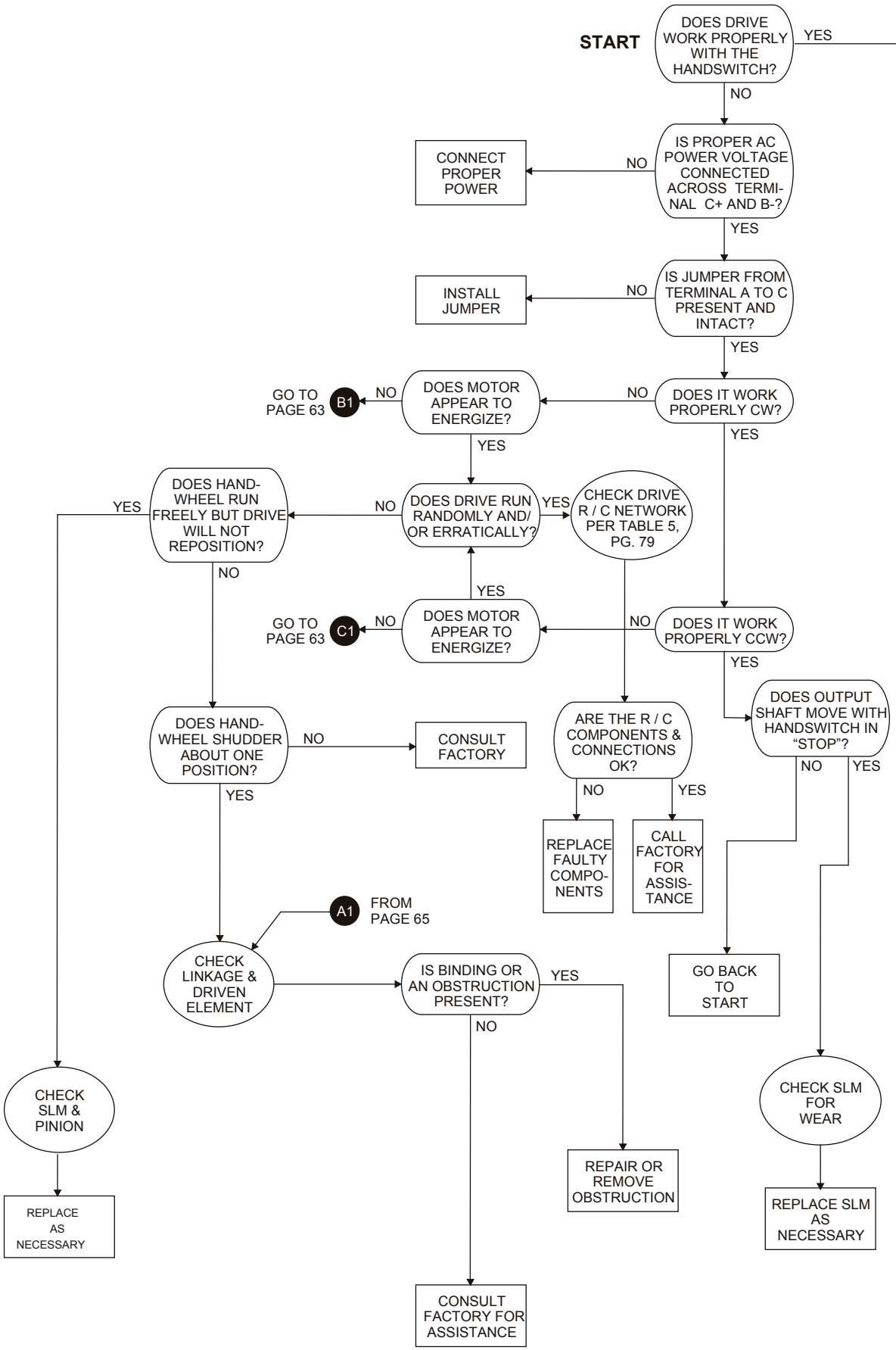
INSTRUCTION MANUAL

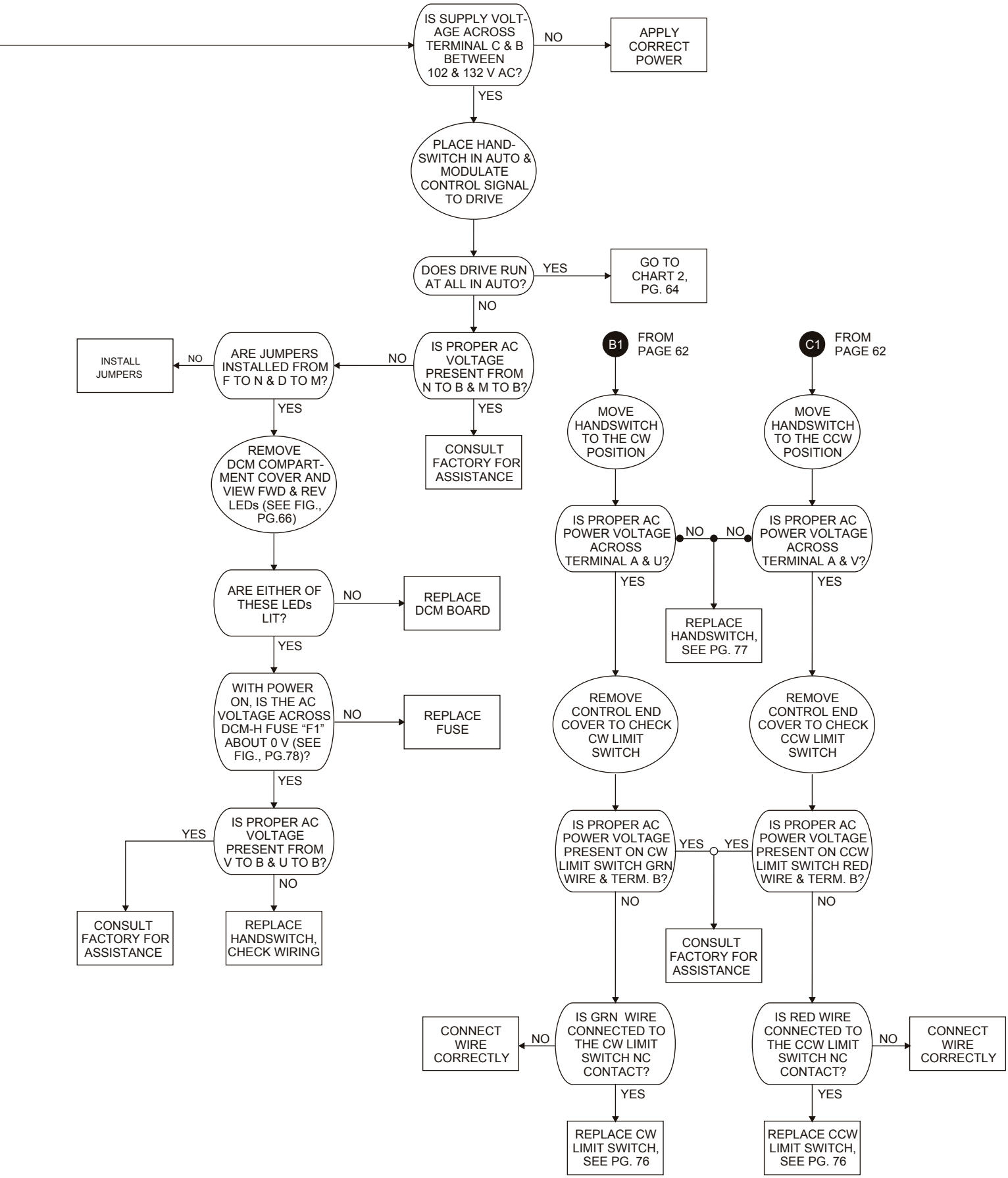




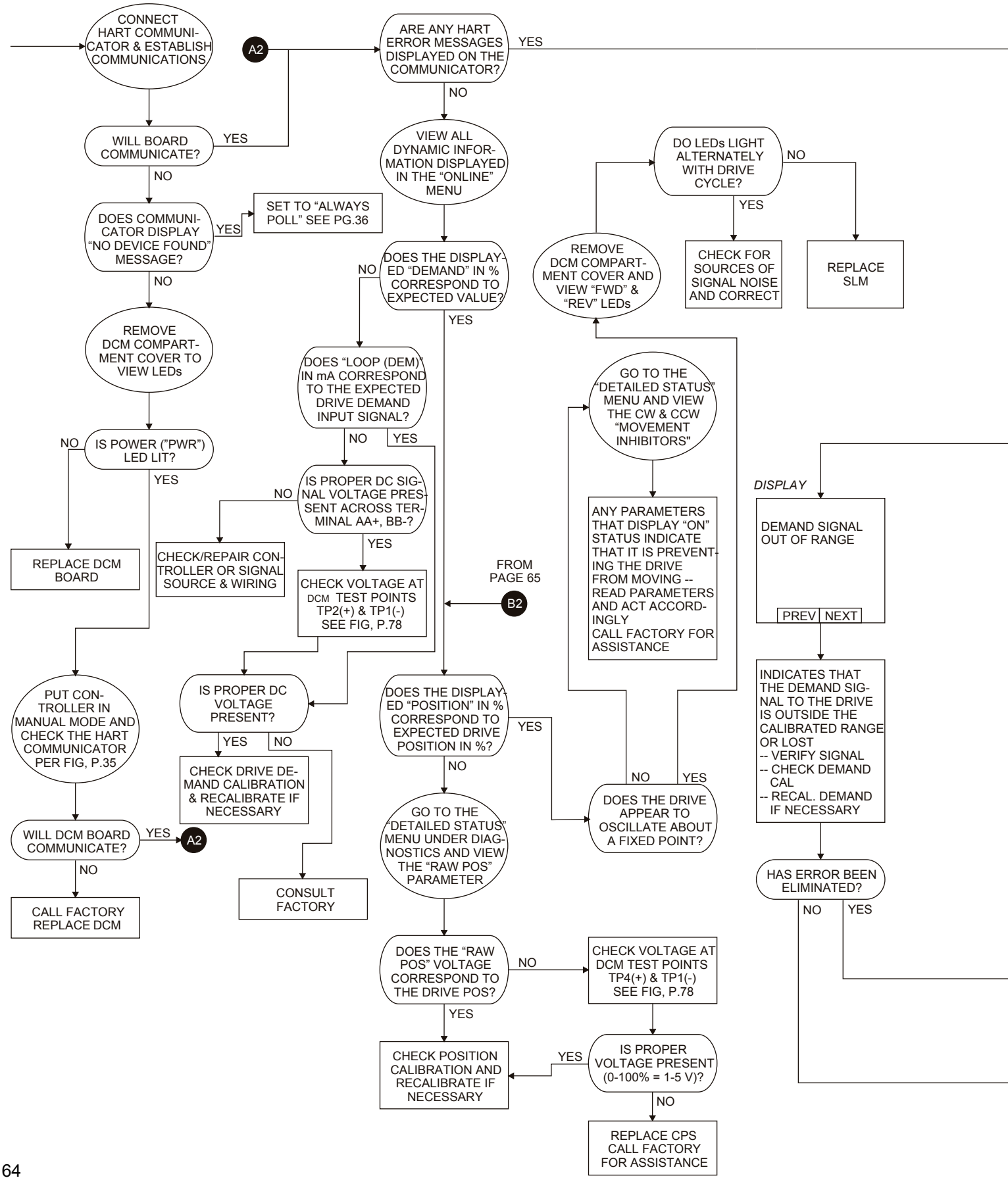
ELECTRIC ACTUATORS FOR INDUSTRIAL PROCESS CONTROL

ELECTRO / MECHANICAL -- CHART 1

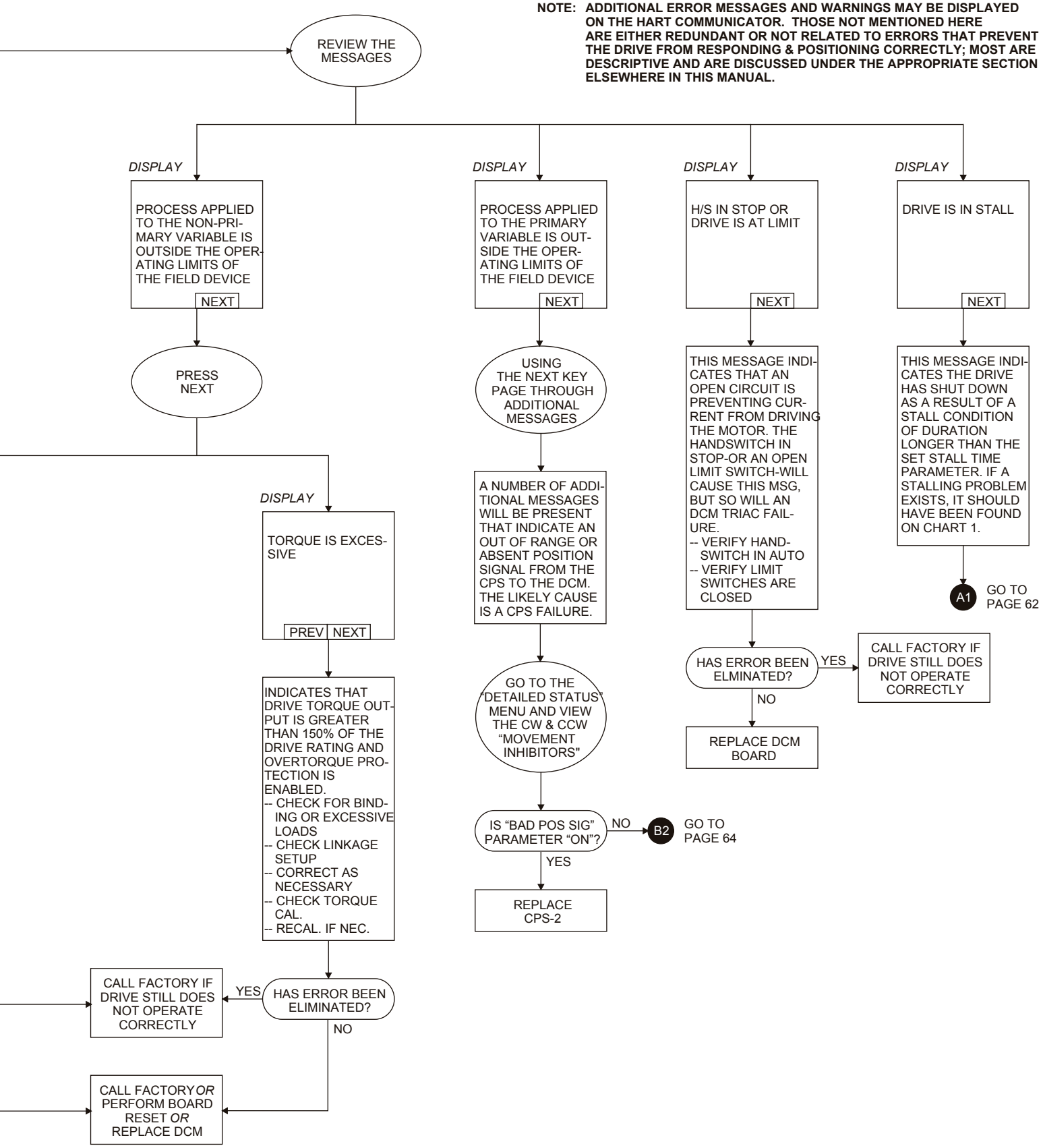



IS SUPPLY VOLTAGE ACROSS TERMINAL C & B BETWEEN 102 & 132 V AC?
NO
APPLY CORRECT POWER
YES
PLACE HANDSWITCH IN AUTO & MODULATE CONTROL SIGNAL TO DRIVE
DOES DRIVE RUN AT ALL IN AUTO?
YES
GO TO CHART 2, PG. 64
NO
IS PROPER AC VOLTAGE PRESENT FROM N TO B & M TO B?
NO
ARE JUMPERS INSTALLED FROM F TO N & D TO M?
NO
INSTALL JUMPERS
YES
CONSULT FACTORY FOR ASSISTANCE
REMOVE DCM COMPARTMENT COVER AND VIEW FWD & REV LEDs (SEE FIG., PG.66)
ARE EITHER OF THESE LEDs LIT?
NO
REPLACE DCM BOARD
YES
WITH POWER ON, IS THE AC VOLTAGE ACROSS DCM-H FUSE "F1" ABOUT 0 V (SEE FIG., PG.78)?
NO
REPLACE FUSE
YES
IS PROPER AC VOLTAGE PRESENT FROM V TO B & U TO B?
YES
CONSULT FACTORY FOR ASSISTANCE
NO
REPLACE HANDSWITCH, CHECK WIRING
B1
FROM PAGE 62
C1
FROM PAGE 62
MOVE HANDSWITCH TO THE CW POSITION
MOVE HANDSWITCH TO THE CCW POSITION
IS PROPER AC POWER VOLTAGE ACROSS TERMINAL A & U?
NO
NO
IS PROPER AC POWER VOLTAGE ACROSS TERMINAL A & V?
YES
YES
REPLACE HANDSWITCH, SEE PG. 77
REMOVE CONTROL END COVER TO CHECK CW LIMIT SWITCH
REMOVE CONTROL END COVER TO CHECK CCW LIMIT SWITCH
IS PROPER AC POWER VOLTAGE PRESENT ON CW LIMIT SWITCH GRN WIRE & TERM. B?
YES
YES
IS PROPER AC POWER VOLTAGE PRESENT ON CCW LIMIT SWITCH RED WIRE & TERM. B?
NO
NO
CONSULT FACTORY FOR ASSISTANCE
IS GRN WIRE CONNECTED TO THE CW LIMIT SWITCH NC CONTACT?
NO
CONNECT WIRE CORRECTLY
YES
REPLACE CW LIMIT SWITCH, SEE PG. 76
IS RED WIRE CONNECTED TO THE CCW LIMIT SWITCH NC CONTACT?
NO
CONNECT WIRE CORRECTLY
YES
REPLACE CCW LIMIT SWITCH, SEE PG. 76

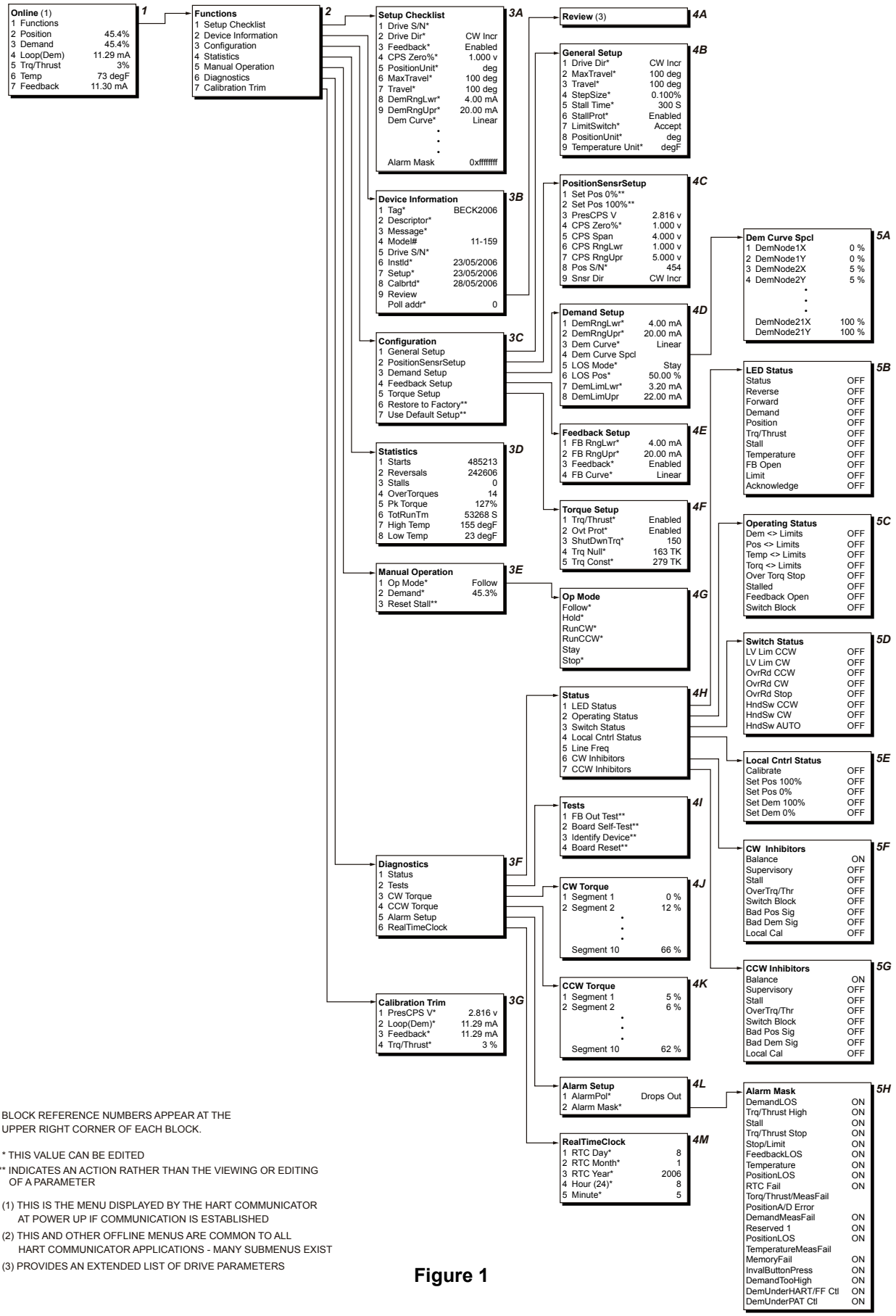
ELECTRONICS DIAGNOSTICS -- CHART 2



NOTE: ADDITIONAL ERROR MESSAGES AND WARNINGS MAY BE DISPLAYED ON THE HART COMMUNICATOR. THOSE NOT MENTIONED HERE ARE EITHER REDUNDANT OR NOT RELATED TO ERRORS THAT PREVENT THE DRIVE FROM RESPONDING & POSITIONING CORRECTLY; MOST ARE DESCRIPTIVE AND ARE DISCUSSED UNDER THE APPROPRIATE SECTION ELSEWHERE IN THIS MANUAL.



BECK-MK2 HART COMMUNICATOR MENUS FOR THE DCM-2



BLOCK REFERENCE NUMBERS APPEAR AT THE UPPER RIGHT CORNER OF EACH BLOCK.

* THIS VALUE CAN BE EDITED

** INDICATES AN ACTION RATHER THAN THE VIEWING OR EDITING OF A PARAMETER

(1) THIS IS THE MENU DISPLAYED BY THE HART COMMUNICATOR AT POWER UP IF COMMUNICATION IS ESTABLISHED

(2) THIS AND OTHER OFFLINE MENUS ARE COMMON TO ALL HART COMMUNICATOR APPLICATIONS - MANY SUBMENUS EXIST

(3) PROVIDES AN EXTENDED LIST OF DRIVE PARAMETERS

Figure 1