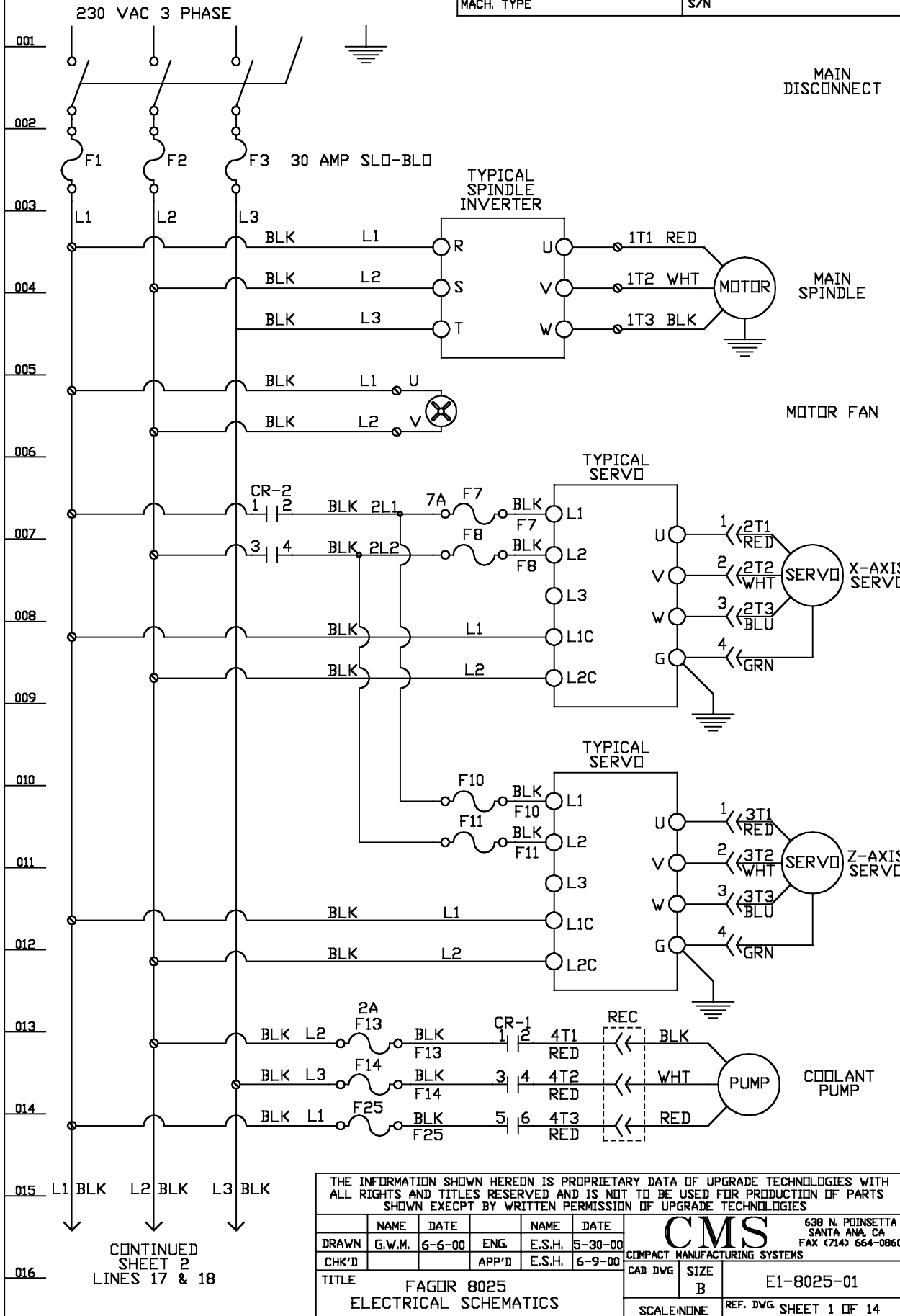


EFFECTIVITY			REVISIONS			
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED



EFFECTIVITY			REVISIONS			
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED

017 FROM SHEET 1
LINES 15 & 16

L1 BLK L2 BLK L3 BLK

018

019

020

021

022

023

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026

027

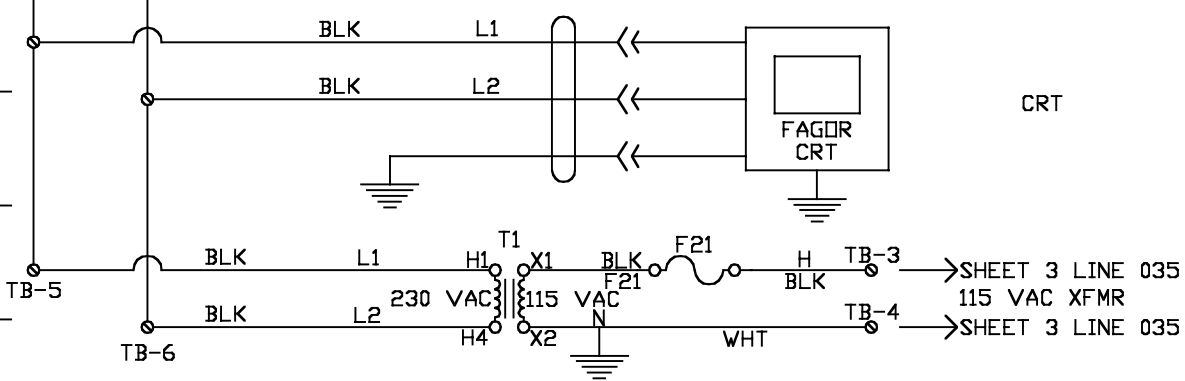
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029

030

031

032

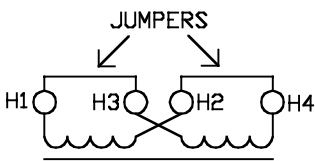


THE INFORMATION SHOWN HEREON IS PROPRIETARY DATA OF UPGRADE TECHNOLOGIES WITH ALL RIGHTS AND TITLES RESERVED AND IS NOT TO BE USED FOR PRODUCTION OF PARTS SHOWN EXCEPT BY WRITTEN PERMISSION OF UPGRADE TECHNOLOGIES					
NAME	DATE	NAME	DATE	CMS 638 N. POINSETTA SANTA ANA, CA FAX (714) 664-0860	
DRAWN G.W.M.	6-6-00	ENG. E.S.H.	5-30-00		
CHK'D		APP'D E.S.H.	6-9-00	CAD DWG	SIZE B
TITLE				E1-8025-01A	
FAGOR 8025 ELECTRICAL SCHEMATICS				SCALE: NONE	REF. DWG SHEET 2 OF 14

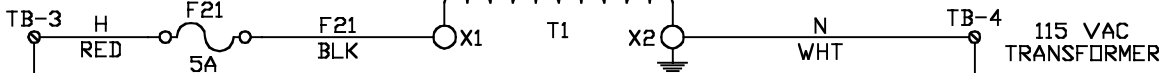
EFFECTIVITY				REVISIONS			
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED	

033

034



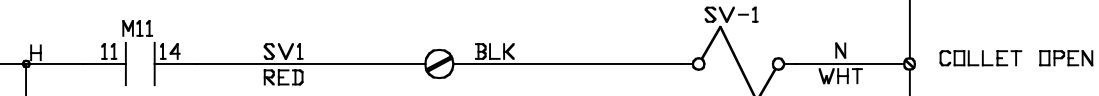
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036

← 115 VAC →

037



038



039



040



041

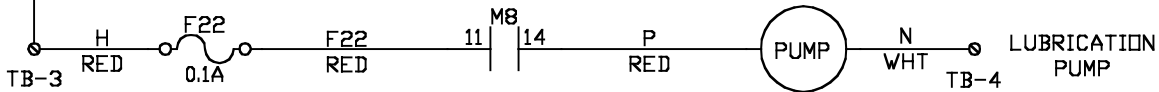


042



043

044



045

TO SHEET 4
LINE 050

TO SHEET 4
LINE 050

046

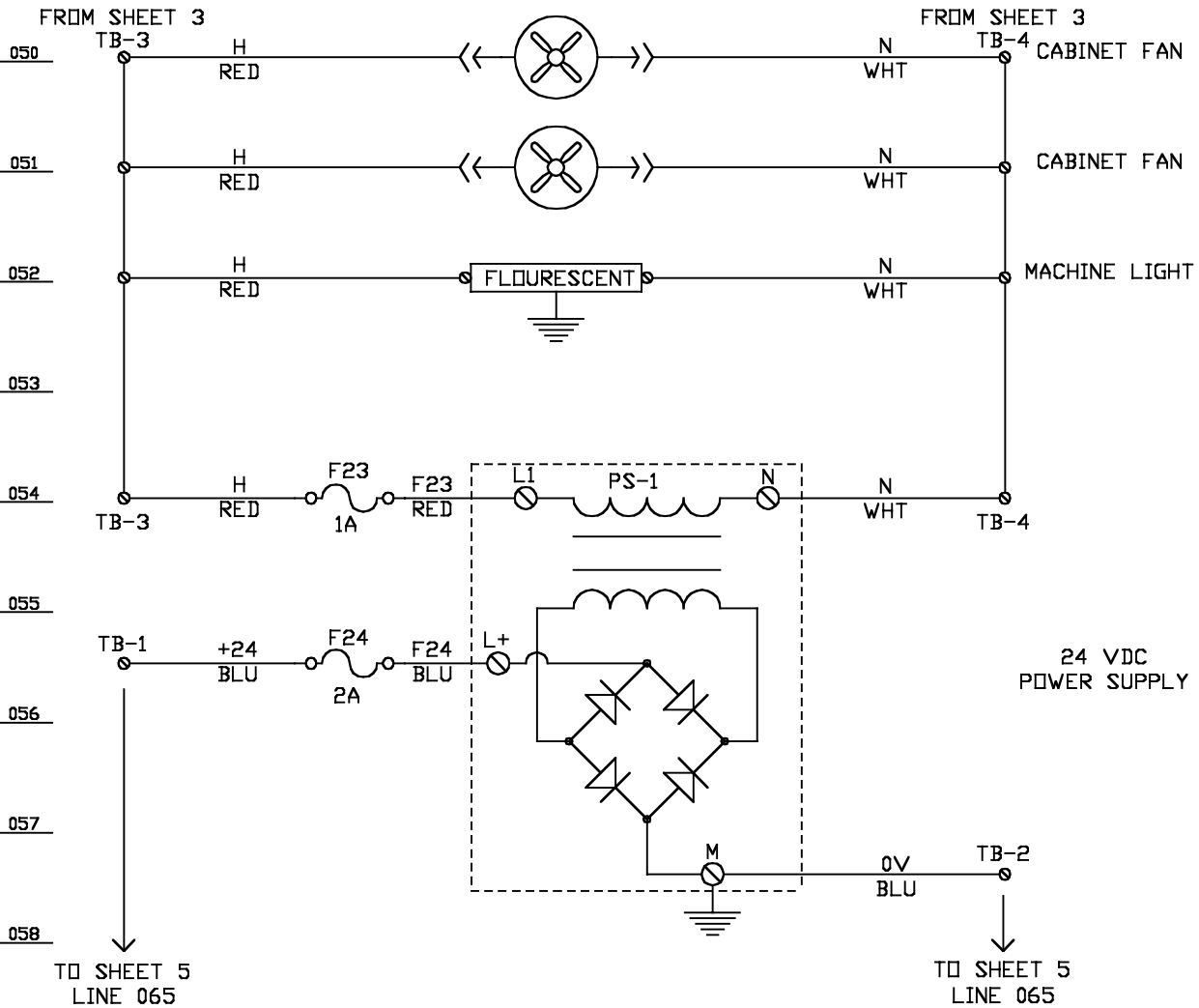
047

THE INFORMATION SHOWN HEREIN IS PROPRIETARY DATA OF UPGRADE TECHNOLOGIES WITH ALL RIGHTS AND TITLES RESERVED AND IS NOT TO BE USED FOR PRODUCTION OF PARTS SHOWN EXCEPT BY WRITTEN PERMISSION OF UPGRADE TECHNOLOGIES					
NAME	DATE	NAME	DATE	CMS 638 N. POINSETTA SANTA ANA, CA FAX (714) 664-0860	
DRAWN	G.W.M. 6-6-00	ENG.	E.S.H. 5-30-00		
CHK'D		APP'D	E.S.H. 6-9-00		
TITLE				CAD DWG	SIZE
FAGOR 8025					B
ELECTRICAL SCHEMATICS				SCALE: NONE	REF. DWG SHEET 3 OF 14

048

EFFECTIVITY			REVISIONS			
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED

049



059

060

061

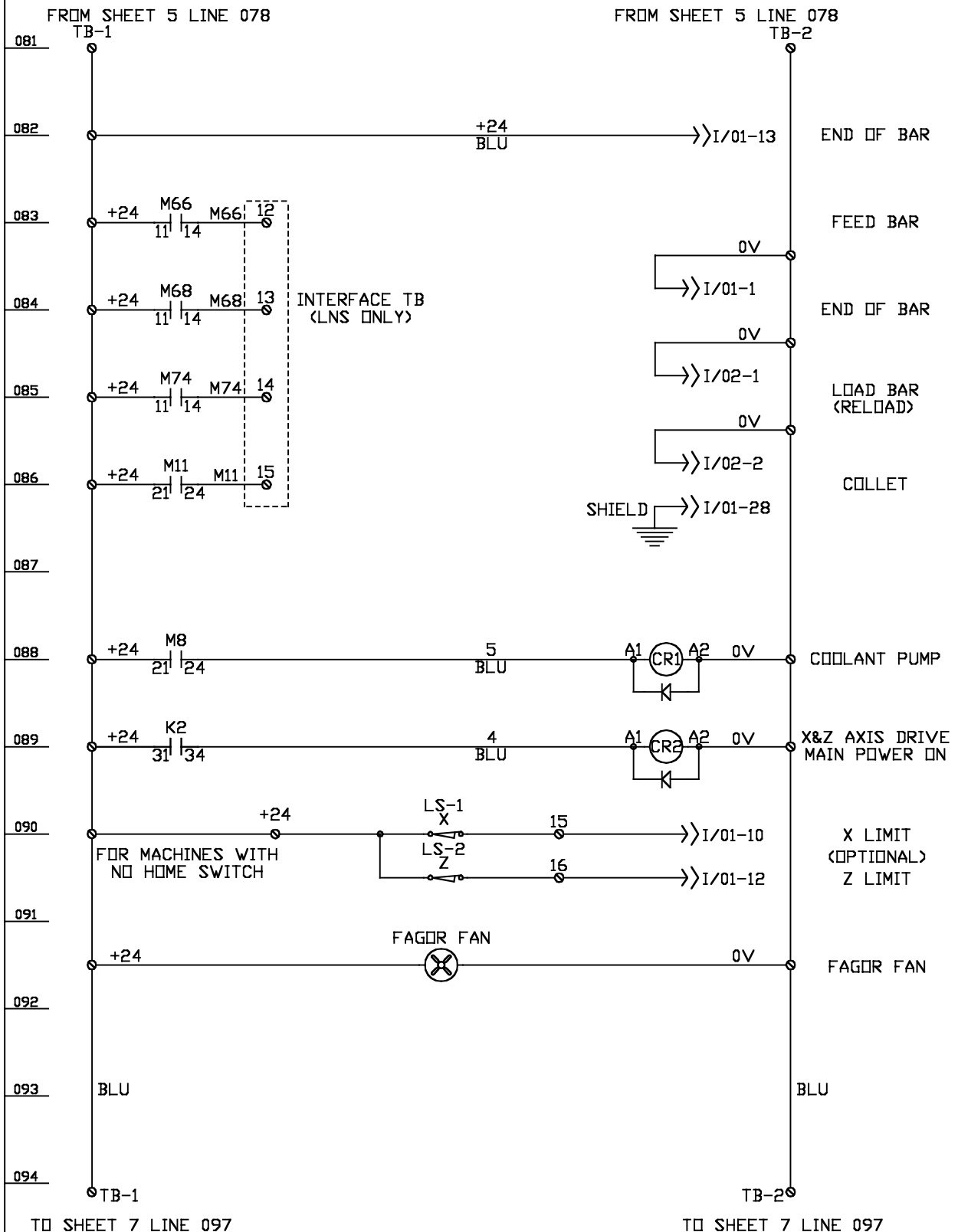
062

063

THE INFORMATION SHOWN HEREIN IS PROPRIETARY DATA OF UPGRADE TECHNOLOGIES WITH ALL RIGHTS AND TITLES RESERVED AND IS NOT TO BE USED FOR PRODUCTION OF PARTS SHOWN EXCEPT BY WRITTEN PERMISSION OF UPGRADE TECHNOLOGIES					
NAME	DATE	NAME	DATE	CMS 638 N. POINSETTA SANTA ANA, CA FAX (714) 664-0860	
DRAWN G.W.M.	6-6-00	ENG. E.S.H.	5-30-00	COMPACT MANUFACTURING SYSTEMS	
CHK'D		APP'D E.S.H.	6-9-00	CAD DWG	SIZE B
TITLE FAGOR 8025 ELECTRICAL SCHEMATICS				SCALE: NONE	REF. DWG SHEET 4 OF 14

064

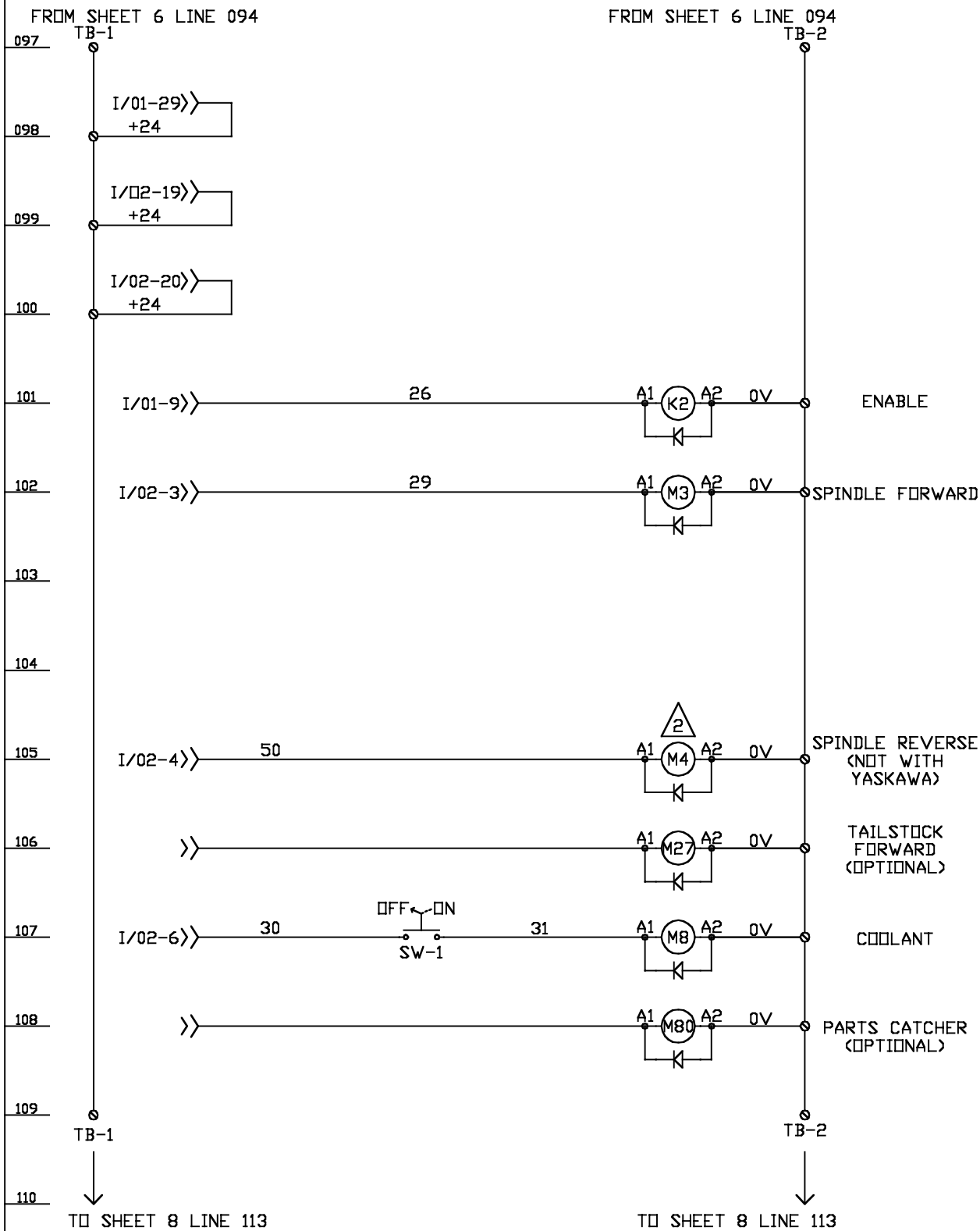
EFFECTIVITY			REVISIONS			
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED



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NAME	DATE	NAME	DATE	CMS 638 N. POINSETTA SANTA ANA, CA FAX (714) 664-0860	
DRAWN G.W.M.	6-7-00	ENG. E.S.H.	5-30-00	CAD DWG	SIZE B
CHK'D		APP'D E.S.H.	6-9-00	E1-8025-03A	
TITLE FAGOR 8025 ELECTRICAL SCHEMATICS				SCALE: NONE	REF. DWG SHEET 6 OF 14

096

EFFECTIVITY			REVISIONS			
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED



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NAME	DATE	NAME	DATE
DRAWN G.W.M.	6-7-00	ENG. E.S.H.	5-30-00
CHK'D		APP'D E.S.H.	6-9-00

CMS
 638 N. POINSETTA
 SANTA ANA, CA
 FAX (714) 664-0860
 COMPACT MANUFACTURING SYSTEMS

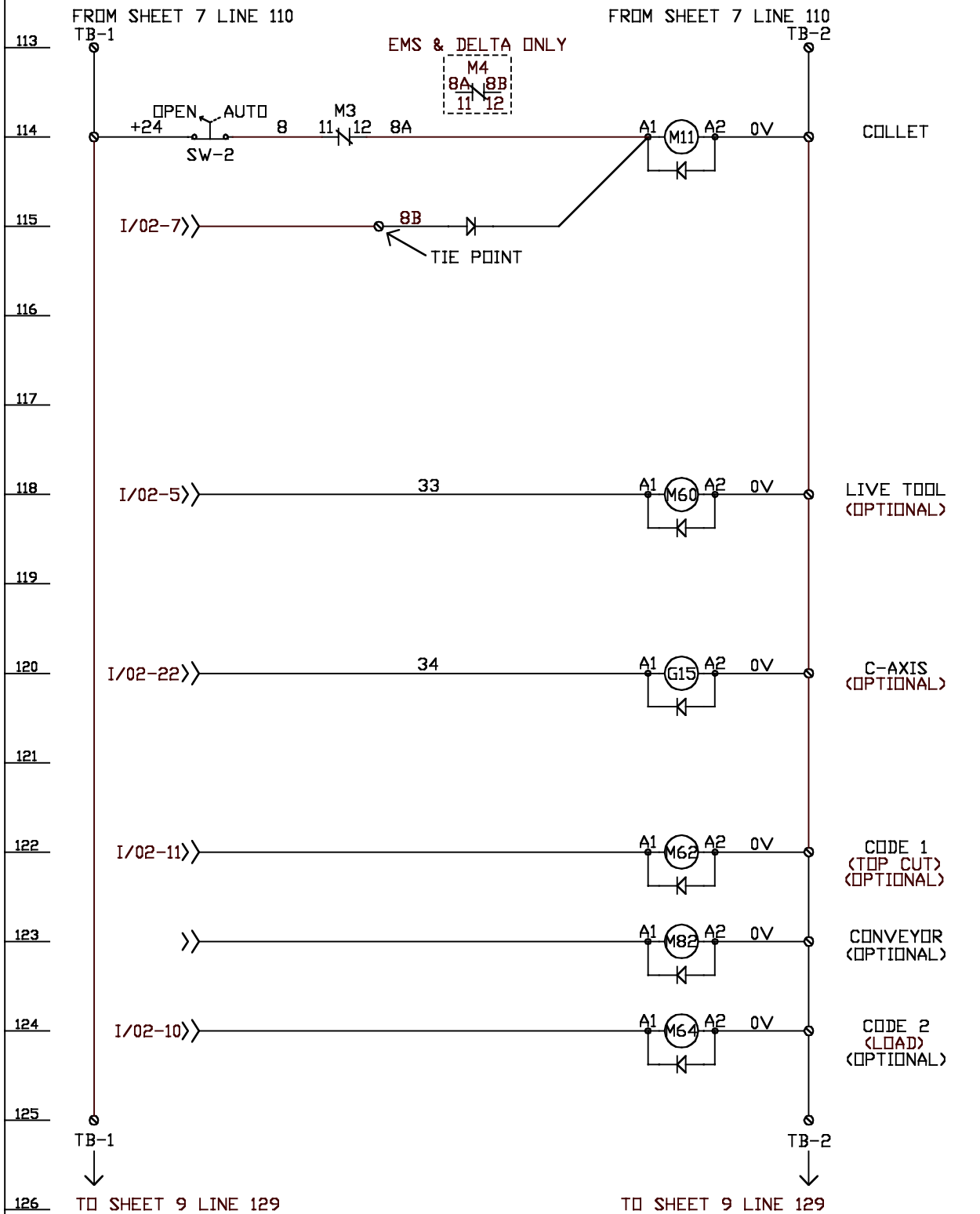
TITLE FAGOR 8025
 ELECTRICAL SCHEMATICS

CAD DWG SIZE B
 SCALE: NONE REF. DWG SHEET 7 OF 14

NOT NEEDED WITH YASKAWA INVERTER

112

EFFECTIVITY			REVISIONS			
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED

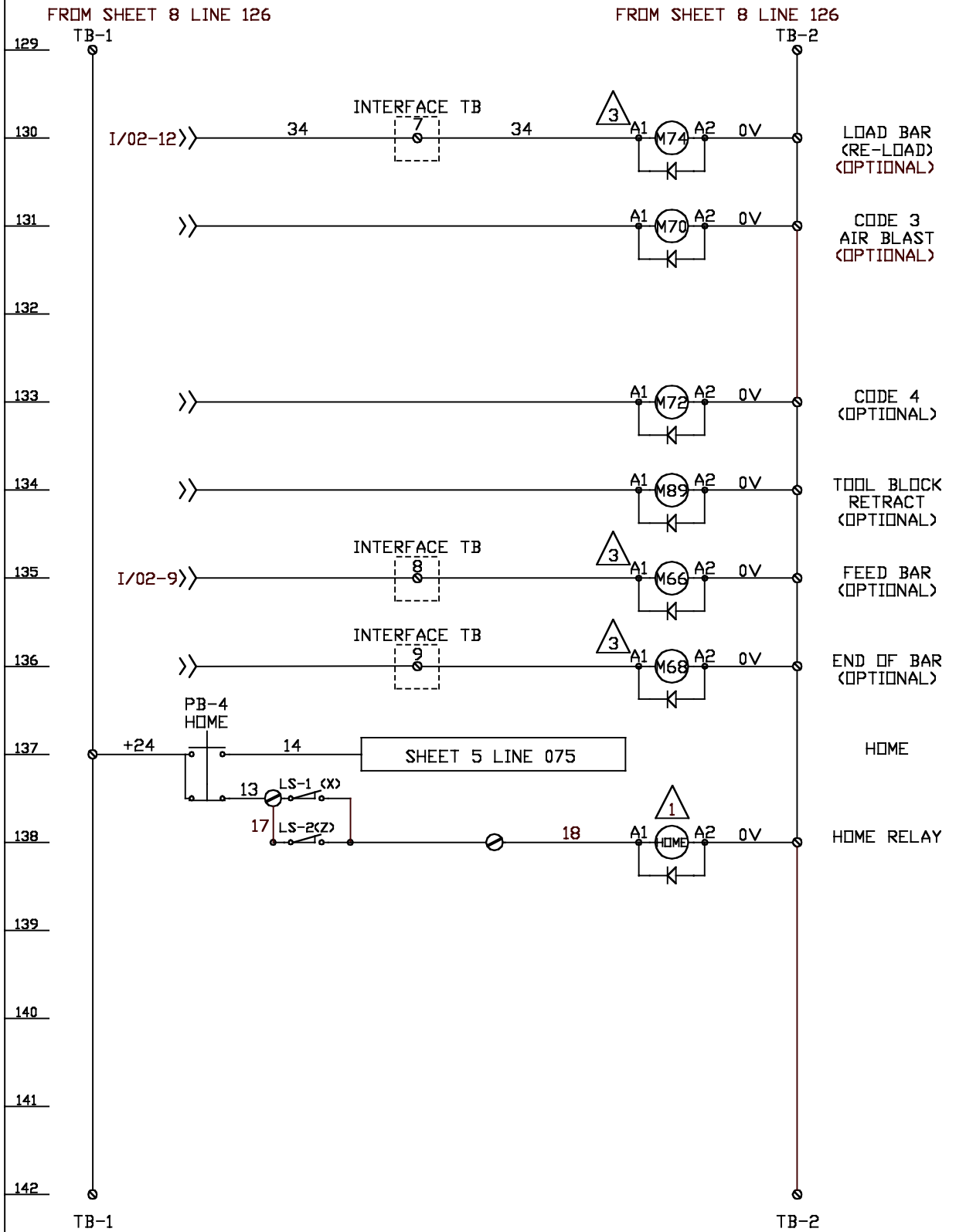


THE INFORMATION SHOWN HEREON IS PROPRIETARY DATA OF UPGRADE TECHNOLOGIES WITH ALL RIGHTS AND TITLES RESERVED AND IS NOT TO BE USED FOR PRODUCTION OF PARTS SHOWN EXCEPT BY WRITTEN PERMISSION OF UPGRADE TECHNOLOGIES					
NAME	DATE	NAME	DATE	CMS 638 N. POINSETTA SANTA ANA, CA FAX (714) 664-0860	
DRAWN G.W.M.	6-7-00	ENG. E.S.H.	5-30-00	COMPACT MANUFACTURING SYSTEMS	
CHK'D		APP'D E.S.H.	6-9-00	CAD DWG	SIZE B
TITLE FAGOR 8025 ELECTRICAL SCHEMATICS				SCALE: NONE	REF. DWG SHEET 8 OF 14
				E1-8025-04A	

127

128

EFFECTIVITY			REVISIONS			
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED



△ 3 RELAY IS REQUIRED ONLY WHEN USING A BAR FEEDER

△ 1 NOT ON GT-27

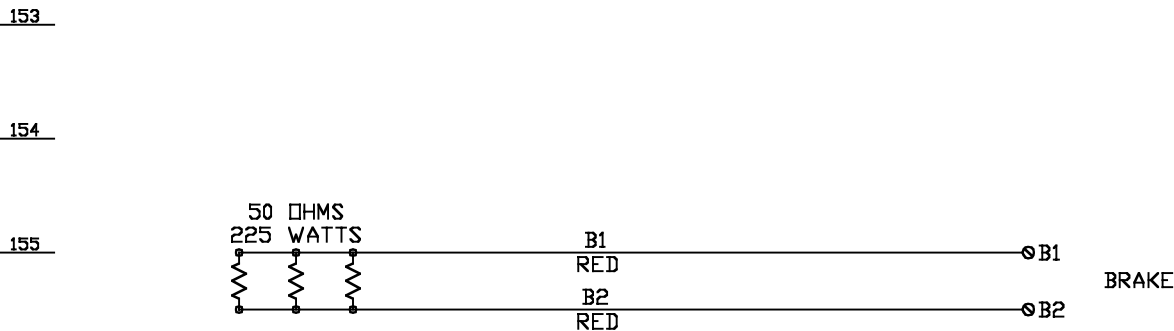
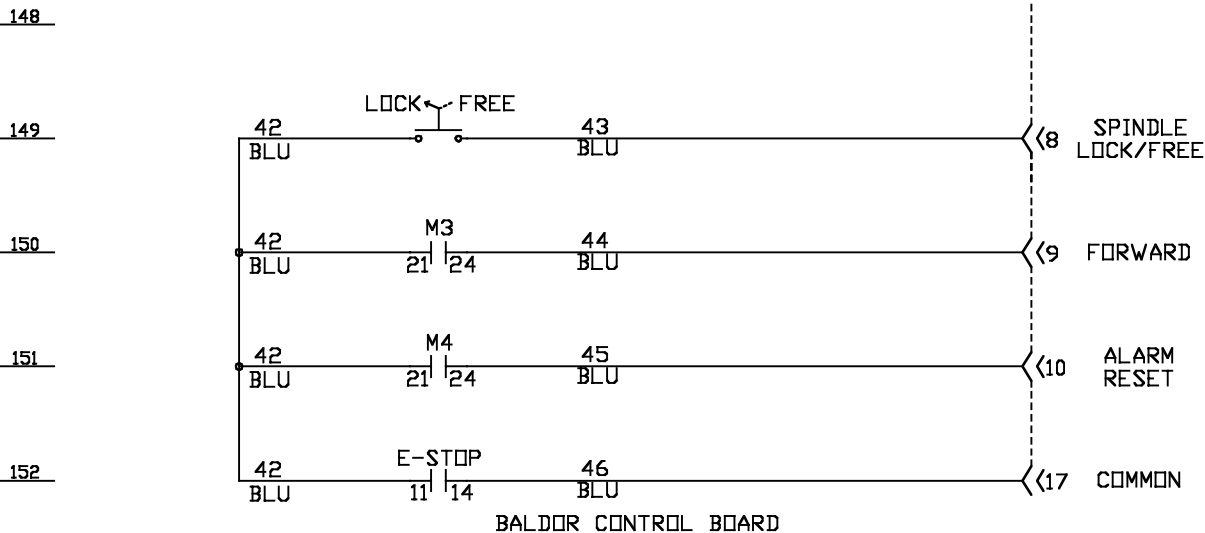
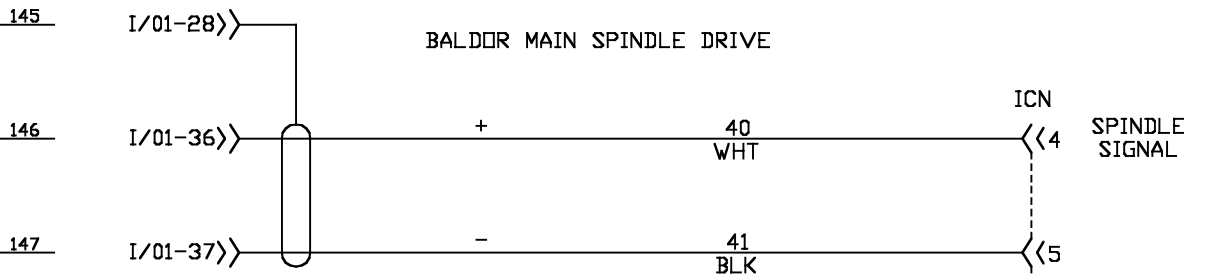
THE INFORMATION SHOWN HEREON IS PROPRIETARY DATA OF UPGRADE TECHNOLOGIES WITH ALL RIGHTS AND TITLES RESERVED AND IS NOT TO BE USED FOR PRODUCTION OF PARTS SHOWN EXCEPT BY WRITTEN PERMISSION OF UPGRADE TECHNOLOGIES

NAME	DATE	NAME	DATE
DRAWN G.W.M.	6-7-00	ENG. E.S.H.	5-30-00
CHK'D		APP'D E.S.H.	6-9-00

CMS 638 N. POINSETTA
SANTA ANA, CA
FAX (714) 664-0860
COMPACT MANUFACTURING SYSTEMS

TITLE	FAGOR 8025 ELECTRICAL SCHEMATICS	CAD DWG	SIZE B	E1-8025-04B
SCALE	NONE	REF. DWG	SHEET 9 OF 14	

EFFECTIVITY			REVISIONS			
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED



156

157

158

159

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NAME	DATE	NAME	DATE	CMS 638 N. POINSETTA SANTA ANA, CA FAX (714) 664-0860	
DRAWN G.W.M.	6-9-00	ENG. E.S.H.	5-30-00		
CHK'D		APP'D	E.S.H.	6-9-00	COMPACT MANUFACTURING SYSTEMS
TITLE				CAD DWG	SIZE
FAGOR 8025 ELECTRICAL SCHEMATICS					B
				SCALE: NONE	REF. DWG. SHEET 10 OF 14

160

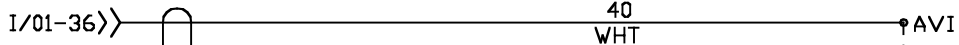
EFFECTIVITY			REVISIONS			
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED

145

DELTA SPINDLE DRIVE

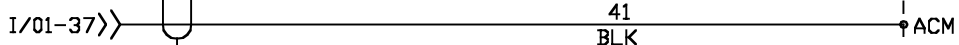
146

147



SPINDLE SIGNAL

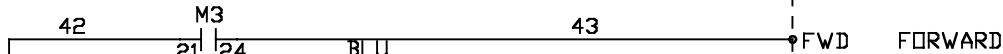
148



149

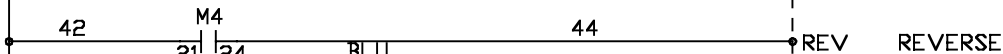


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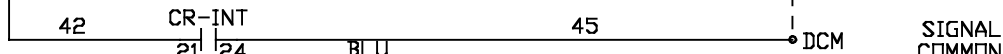
FORWARD

151



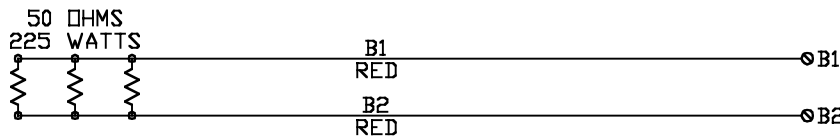
REVERSE

152



SIGNAL COMMON

153



BRAKE

155

156

157

158

159

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NAME	DATE	NAME	DATE	CMS 638 N. POINSETTA SANTA ANA, CA FAX (714) 664-0860 COMPACT MANUFACTURING SYSTEMS	
DRAWN	G.W.M. 6-8-00	ENG.	E.S.H. 5-30-00		
CHK'D		APP'D	E.S.H. 6-9-00		
TITLE				CAD DWG	SIZE
FAGOR 8025 ELECTRICAL SCHEMATICS				SCALE: NONE	B
				REF. DWG	E1-8025-D-06
					SHEET 10 OF 14

160

EFFECTIVITY				REVISIONS			
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED	

145

EMS SPINDLE DRIVE

146

I/01-28 <<

147

I/01-36 <<

40
WHT

8

ANALOG
SIGNAL IN

148

I/01-37 <<

41
BLK

11

149

42 M3 11 14

43
BLU

1

FORWARD

150

BLU 42 M4 11 14

44
BLU

2

REVERSE

151

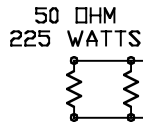
42 CR-INT 21 24

45
BLU

6

COMMON

152



47
RED

B1

BRAKE

48
RED

B2

153

154

155

156

157

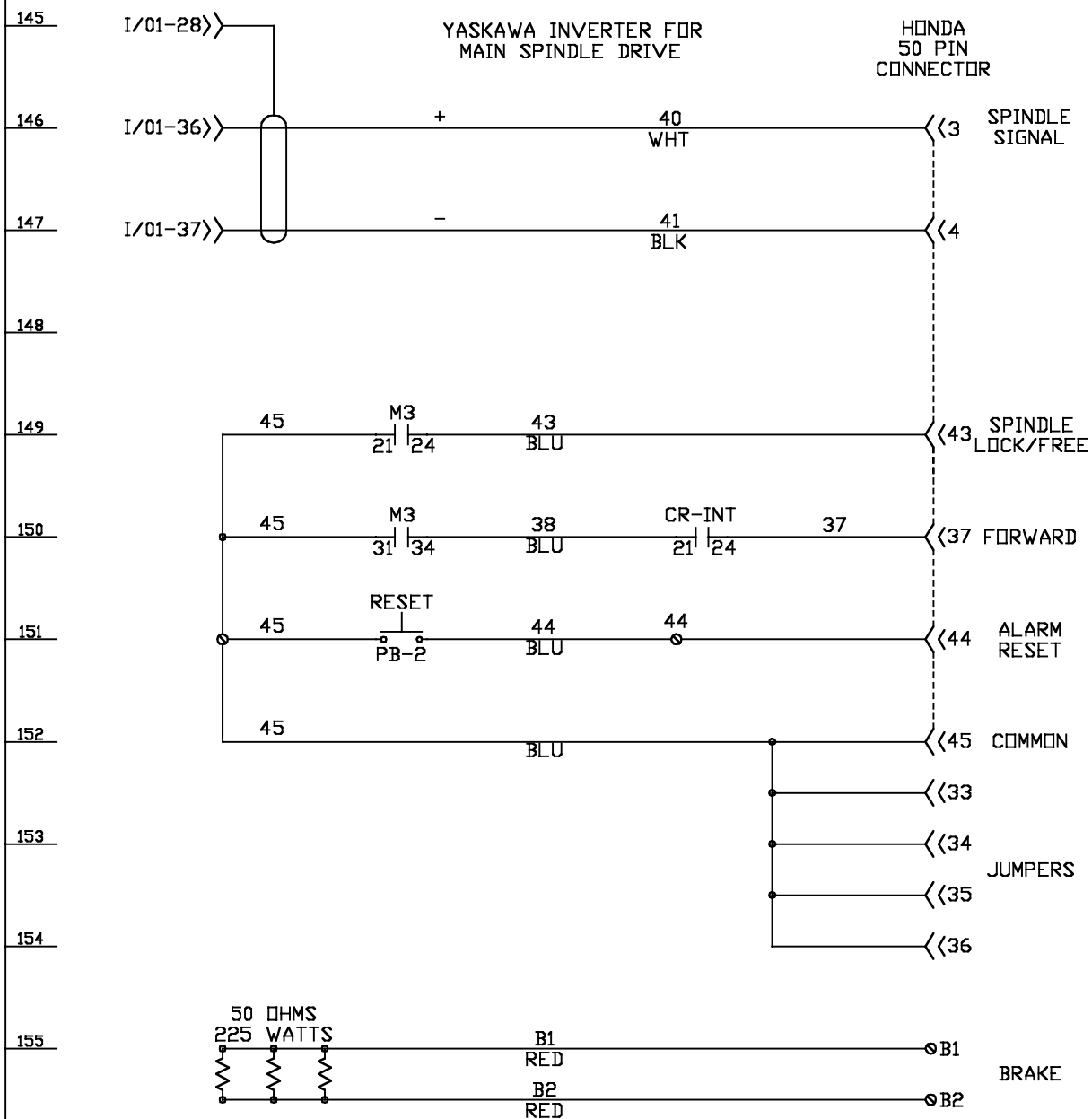
158

159

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NAME	DATE	NAME	DATE	 638 N. POINSETTA SANTA ANA, CA FAX (714) 664-0860			
DRAWN	G.W.M. 6-7-00	ENG.	E.S.H. 5-30-00				
CHK'D		APP'D	E.S.H. 6-9-00				
TITLE				CAD DWG	SIZE	E1-8025-E-06	
FAGOR 8025 ELECTRICAL SCHEMATICS				SCALE	NONE	REF. DWG SHEET 10 OF 14	

160

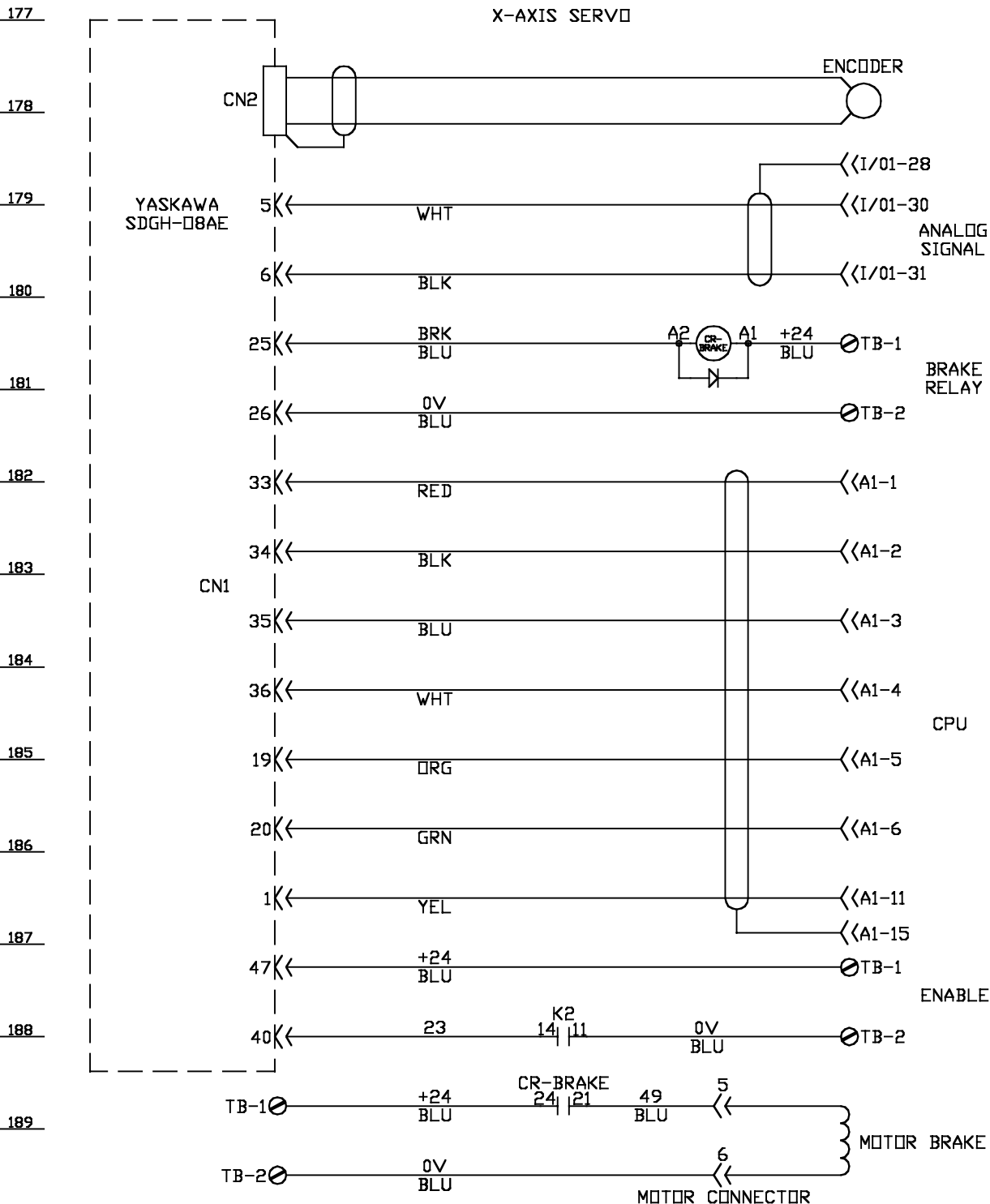
EFFECTIVITY				REVISIONS			
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED	



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NAME	DATE	NAME	DATE	CMS 638 N. POINSETTA SANTA ANA, CA FAX (714) 664-0860 COMPACT MANUFACTURING SYSTEMS			
DRAWN G.W.M.	6-9-00	ENG. E.S.H.	5-30-00				
CHK'D		APP'D	E.S.H.	6-9-00	CAD DWG	SIZE B	E1-8025-Y-06
TITLE FAGOR 8025 ELECTRICAL SCHEMATICS				SCALE: NONE	REF. DWG SHEET 10 OF 14		

EFFECTIVITY				REVISIONS			
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED	

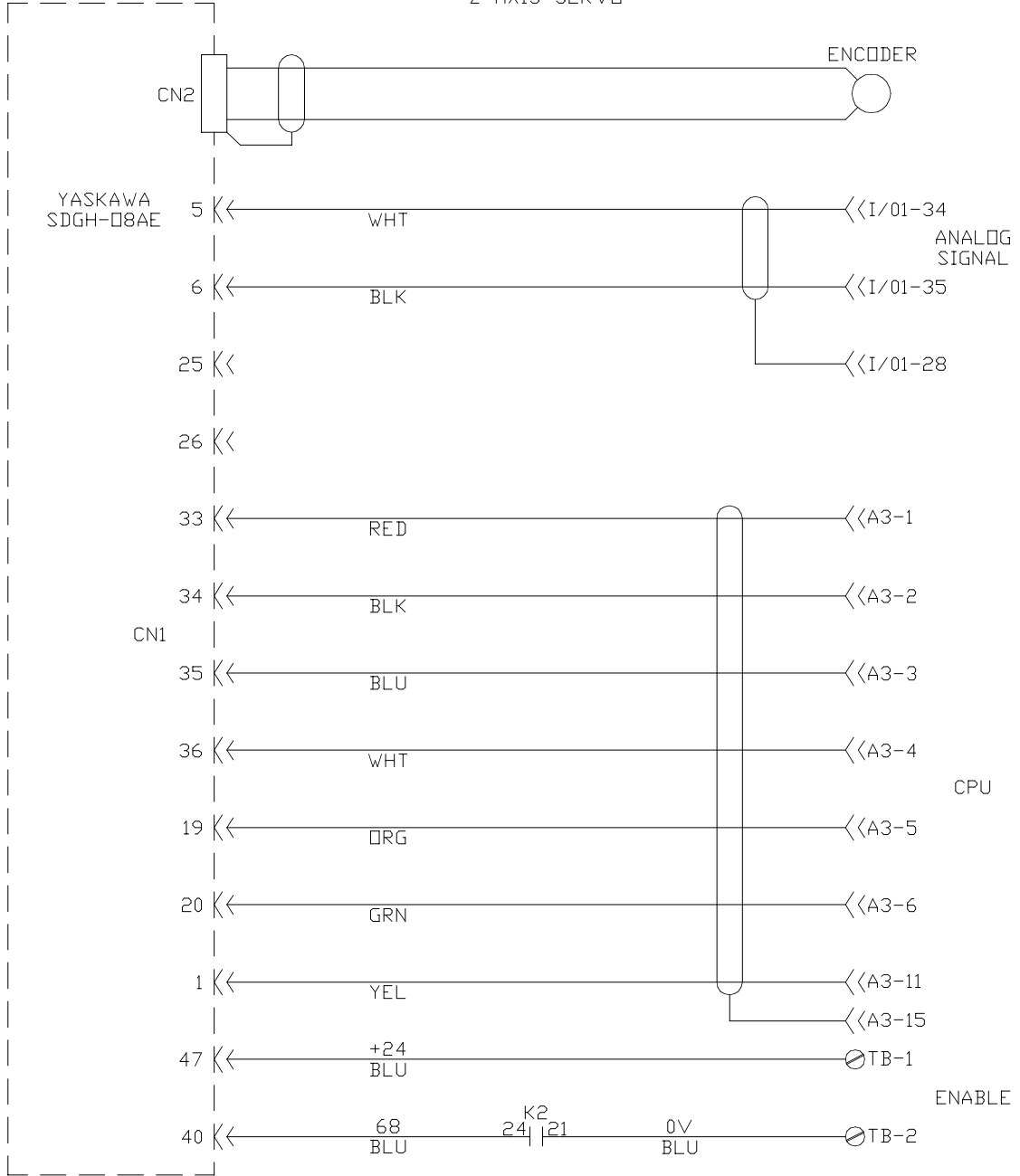
X-AXIS SERVO



THE INFORMATION SHOWN HEREIN IS PROPRIETARY DATA OF UPGRADE TECHNOLOGIES WITH ALL RIGHTS AND TITLES RESERVED AND IS NOT TO BE USED FOR PRODUCTION OF PARTS SHOWN EXCEPT BY WRITTEN PERMISSION OF UPGRADE TECHNOLOGIES					
NAME	DATE	NAME	DATE	CMS 638 N. POINSETTA SANTA ANA, CA FAX (714) 664-0860	
DRAWN	G.W.M.	6-8-00	ENG.	E.S.H.	5-30-00
CHK'D			APP'D	E.S.H.	6-9-00
TITLE			FAGOR 8025		CAD DWG
ELECTRICAL SCHEMATICS			SIZE		B
			SCALE: NONE		REF. DWG SHEET 11 OF 14

EFFECTIVITY				REVISIONS			
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED	

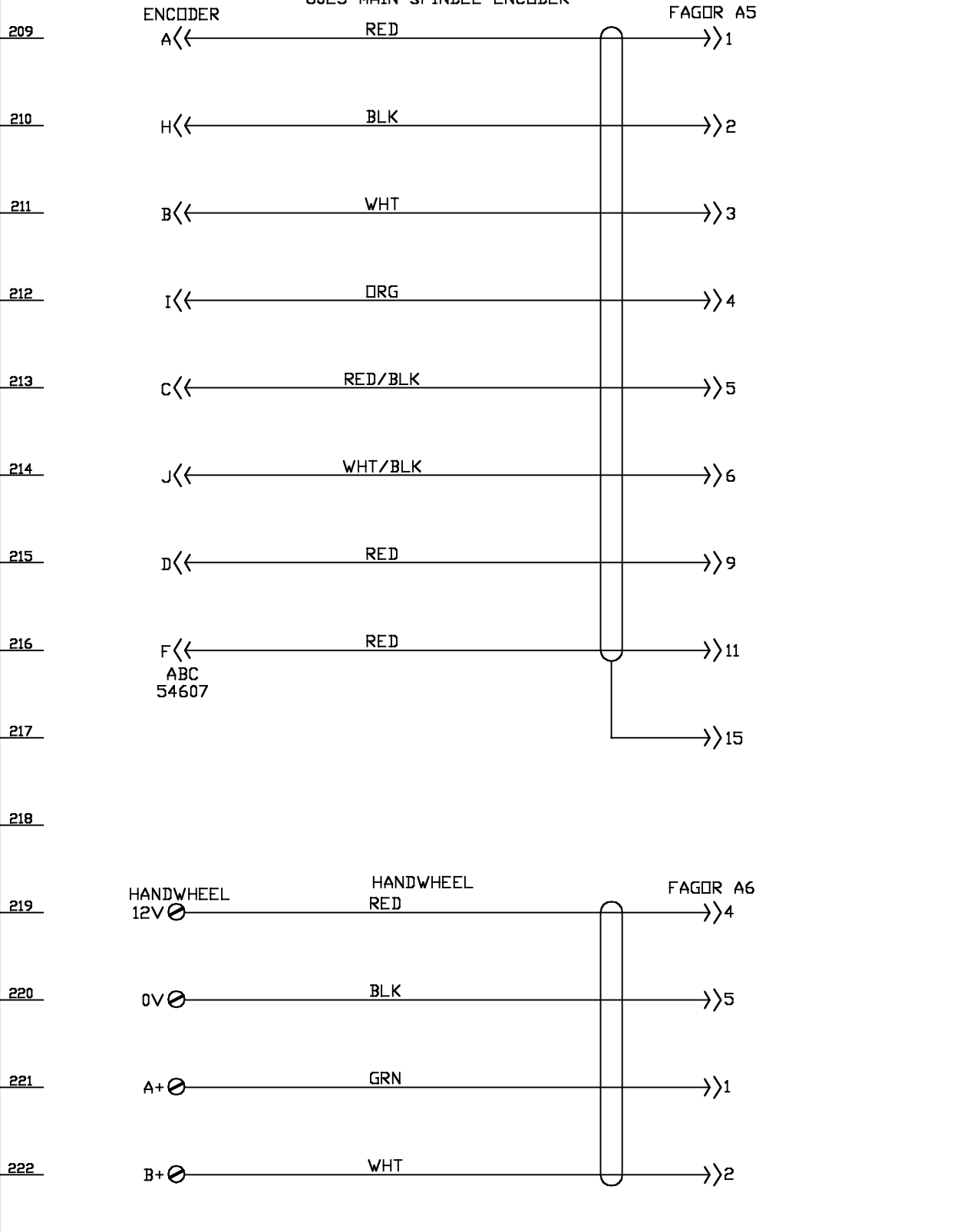
Z-AXIS SERVO



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	NAME	DATE		NAME	DATE	 638 N. POINSETTA SANTA ANA, CA FAX (714) 664-0860						
DRAWN	G.W.M.	6-8-00	ENG.	E.S.H.	5-30-00			COMPACT MANUFACTURING SYSTEMS				
CHK'D			APP'D	E.S.H.	6-9-00	CAD DWG	SIZE B	E1-8025-4-09				
TITLE FAGOR 8025 ELECTRICAL SCHEMATICS								SCALE: NONE	REF. DWG. SHEET 12 OF 14			

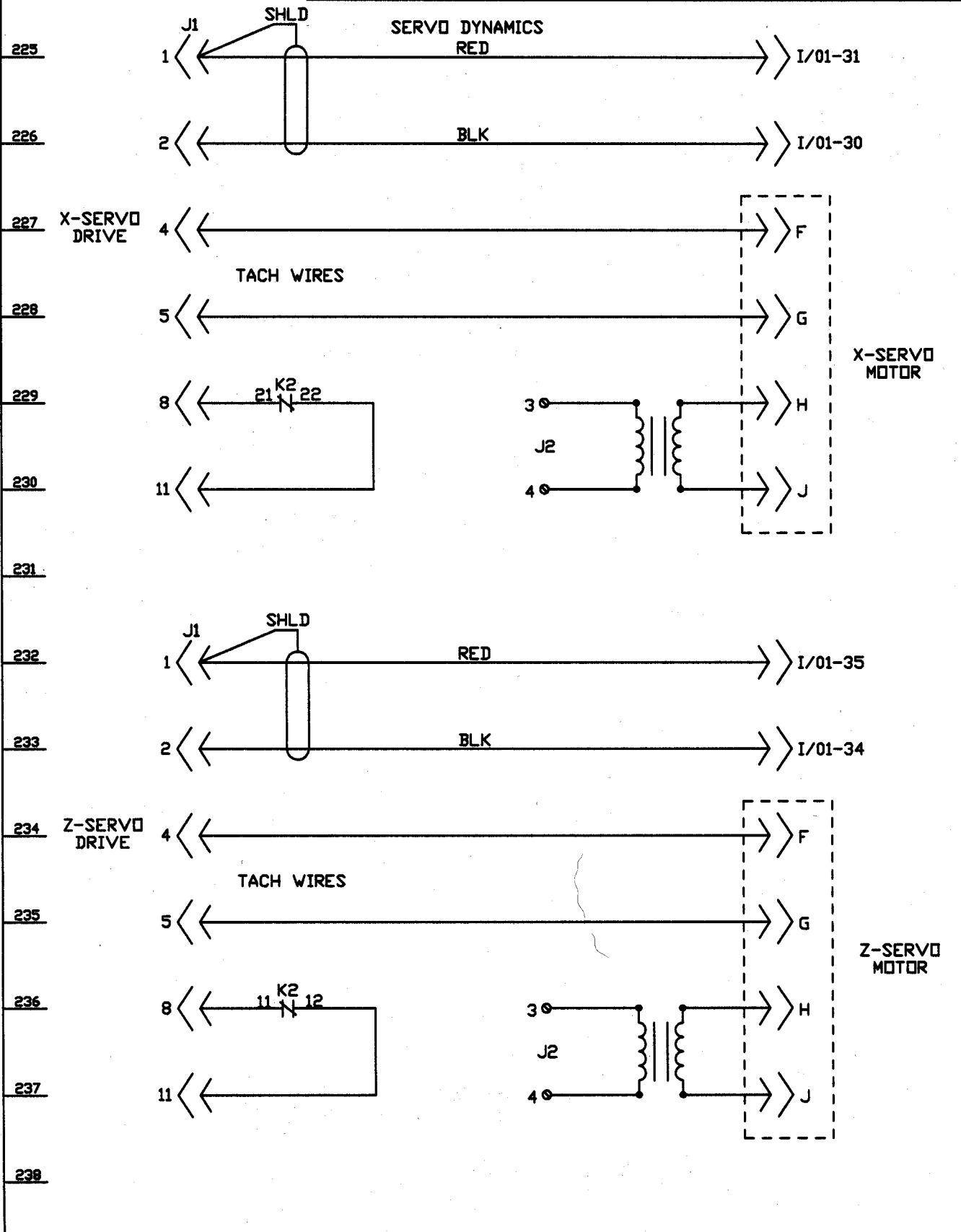
EFFECTIVITY				REVISIONS		
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED

8025 MAIN SPINDLE ENCODER



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NAME	DATE	NAME	DATE	CMS 638 N. POINSETTA SANTA ANA, CA FAX (714) 664-0860		
DRAWN G.W.M.	6-22-00	ENG. E.S.H.	6-22-00			
CHK'D		APP'D	E.S.H.	6-22-00	CAD DWG	SIZE
TITLE SPINDLE ENCODER & HANDWHEEL				B	E9-8025-70	
				SCALE: NONE	REF. DWG. SHEET 13 OF 14	

EFFECTIVITY			REVISIONS			
S/N AND OP.	ZONE	REV	DESCRIPTION	E. C. NO	DATE	APPROVED



225

226

227 X-SERVO DRIVE

228

229

230

231

232

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234 Z-SERVO DRIVE

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NAME	DATE	NAME	DATE
DRAWN G.V.M.	5-23-00	ENG. E.S.H.	5-25-00
CHK'D		APP'D E.S.H.	5-23-00

CMS CONTACT MANUFACTURING SYSTEMS
 638 N. POONSETTA SANTA ANA, CA FAX (714) 664-0860

TITLE	GTS-8025 SERVO DYNAMICS X & Z SERVO DRIVES	CAD DWG	SIZE B	E1-8025-1-07,09
		SCALE	ONE	REF. DWG SHEET 14 OF 14