$CFG_CTRL/toni_t/M02G9898B/dc_motor_controller_pcb/schematic/SHT1 last update : 07/02/99 MENTOR ARCHIVE

REVISIONS

LTR	ECO. NO	DATE	APPROVED	LTR	ECO. NO	DATE	APPROVED
A	22329	07/05/96	PULVERS				
B	24235	22/01/98	PULVERS				

REVISION STATUS OF SHEETS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
B	B	A	A	A	A	A	A	B	A	A	B	A	B								

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42

43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62

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SCITEX

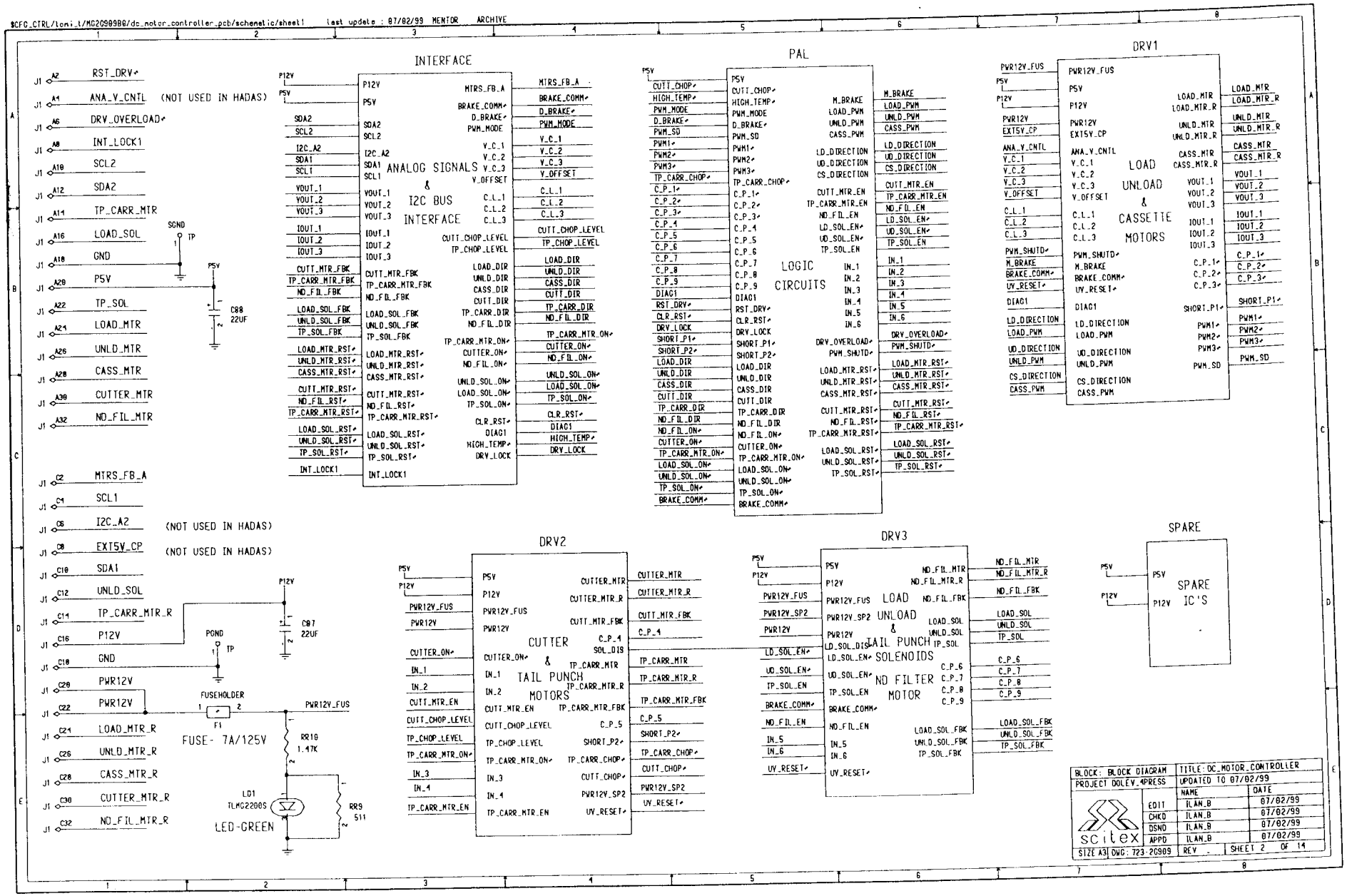
APPROVAL SIGNATURES	
EDIT	ILAN_B
CHECKED	ILAN_B
DESIGNED	ILAN_B
APPROVED	ILAN_B
DATE	07/02/99

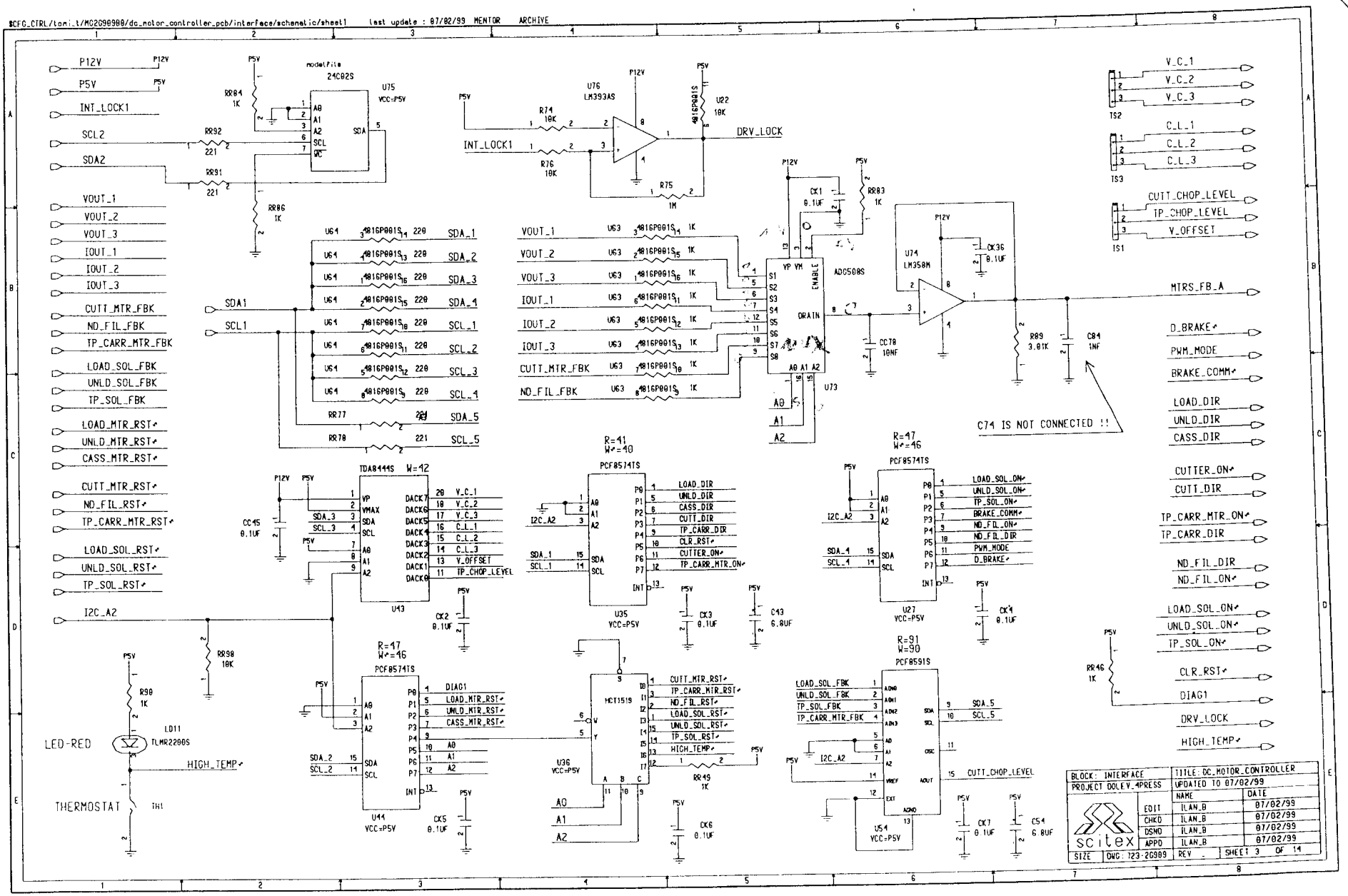
TITLE: DC_MOTOR_CONTROLLER

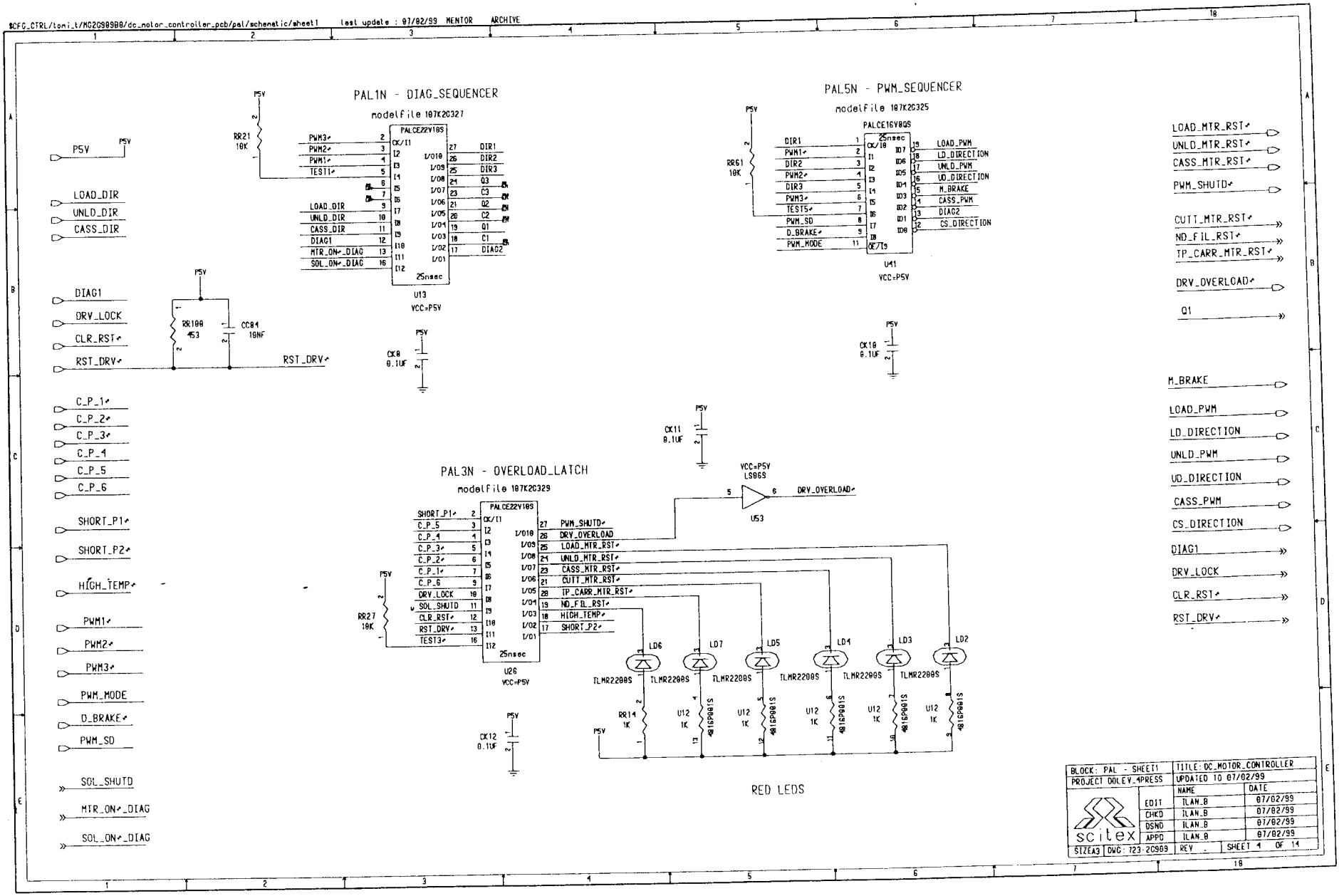
PROJECT: DOLEV_4PRESS

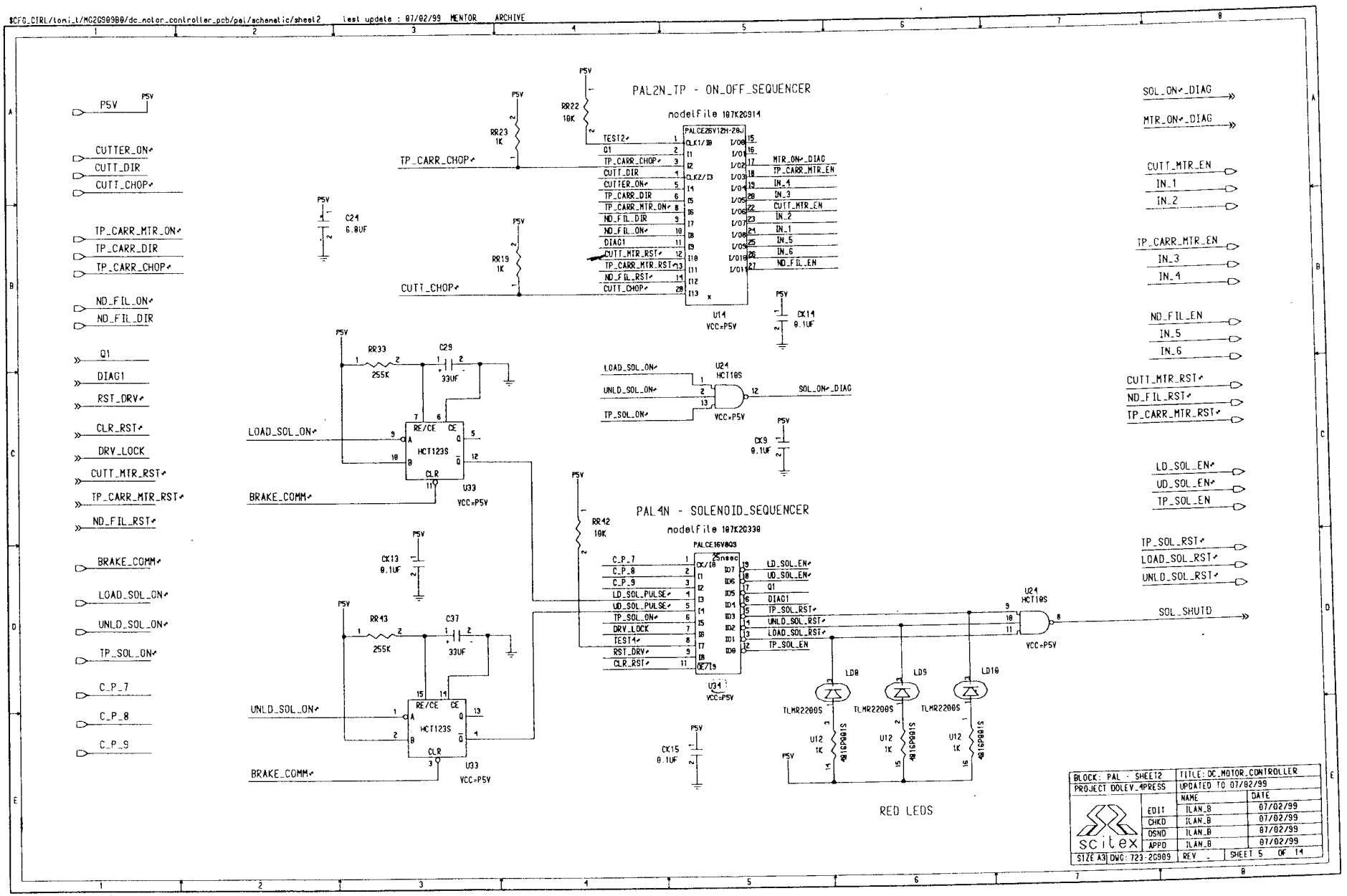
SHEET 1 OF 14

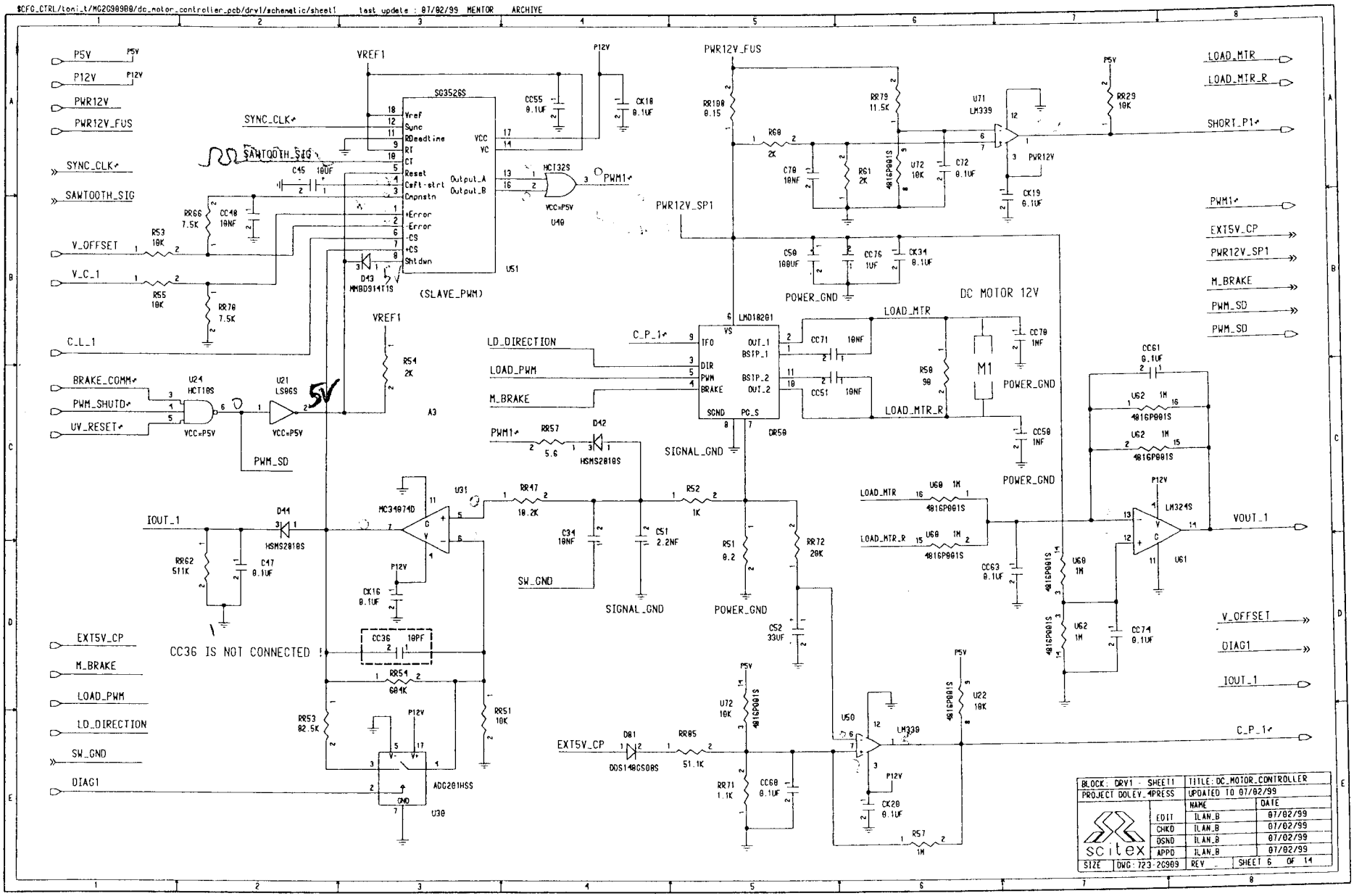
SIZE	DWG NO.:	REV:
A3	723-2G909	0

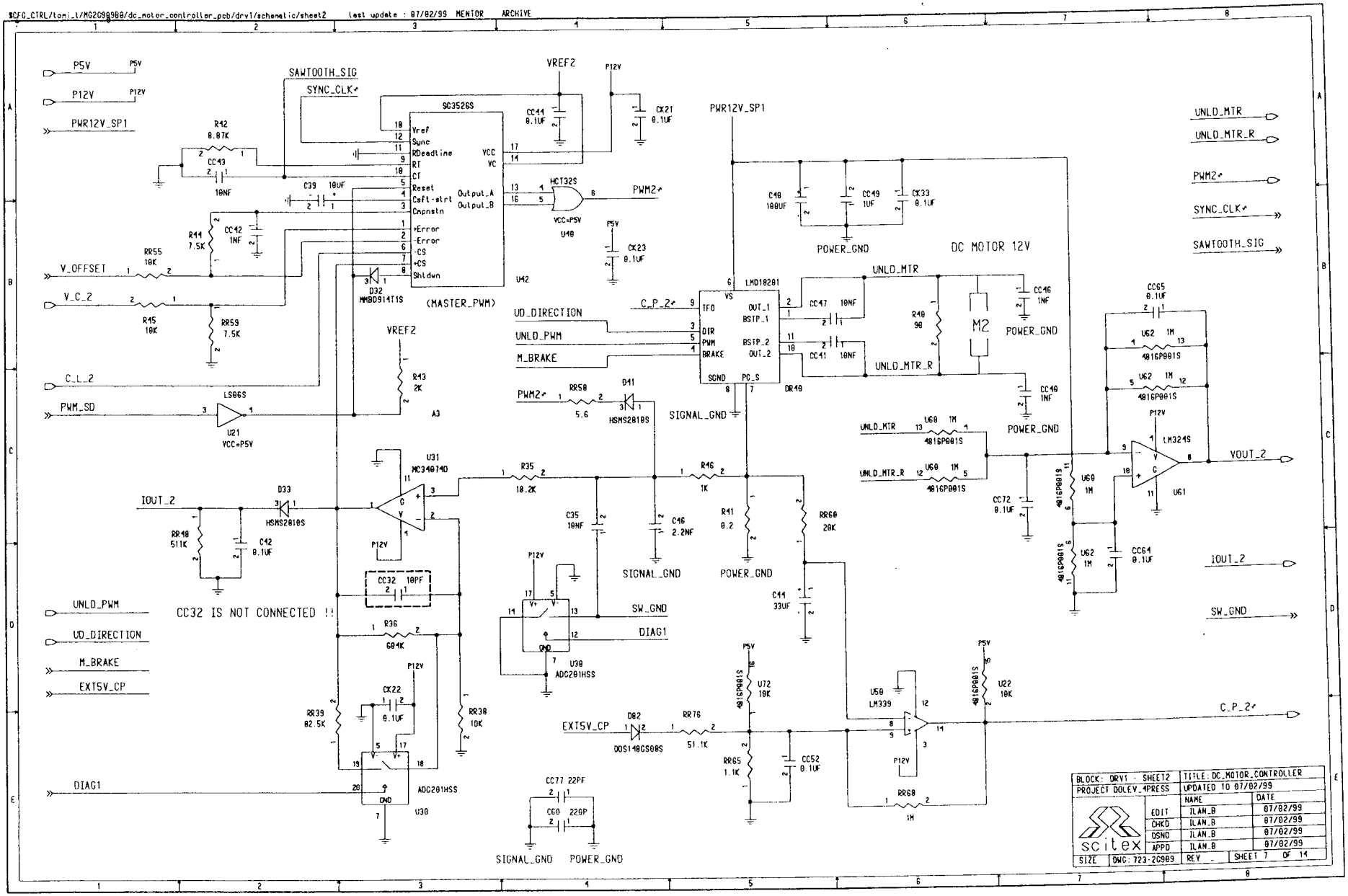

$CFG_CTRL/lani_t/MG20909B0/dc_motor_controller_pcb/schematic/sheet1 last update : 07/02/99 MENTOR ARCHIVE
INTERFACE
ANALOG SIGNALS & I2C BUS INTERFACE
PAL
LOGIC CIRCUITS
DRV1
LOAD UNLOAD & CASSETTE MOTORS
DRV2
CUTTER & TAIL PUNCH MOTORS
DRV3
LOAD UNLOAD & TAIL PUNCH SOLENOIDS
ND FILTER MOTOR
SPARE
SPARE IC'S
RST_DRV
ANA_V_CNTL (NOT USED IN HADAS)
DRV_OVERLOAD
INT_LOCK1
SCL2
SDA2
TP_CARR_MTR
LOAD_SOL
GND
P5V
TP_SOL
LOAD_MTR
UNLD_MTR
CASS_MTR
CUTTER_MTR
ND_FIL_MTR
MTRS_FB_A
SCL1
I2C_A2 (NOT USED IN HADAS)
EXT5V_CP (NOT USED IN HADAS)
SDA1
UNLD_SOL
TP_CARR_MTR_R
P12V
PWR12V
LOAD_MTR_R
UNLD_MTR_R
CASS_MTR_R
CUTTER_MTR_R
ND_FIL_MTR_R
C88 22UF
C87 22UF
FUSEHOLDER
F1
FUSE- 7A/125V
PWR12V_FUS
RR10 1.47K
RR9 511
LD1 TLMG2200S
LED-GREEN
SCITEX
BLOCK: BLOCK DIAGRAM
TITLE: DC_MOTOR_CONTROLLER
PROJECT DOLEV_4PRESS
UPDATED TO 07/02/99
EDIT ILAN_B 07/02/99
CHKD ILAN_B 07/02/99
DSND ILAN_B 07/02/99
APPD ILAN_B 07/02/99
SIZE A3 DWG: 723-20909 REV _ SHEET 2 OF 14

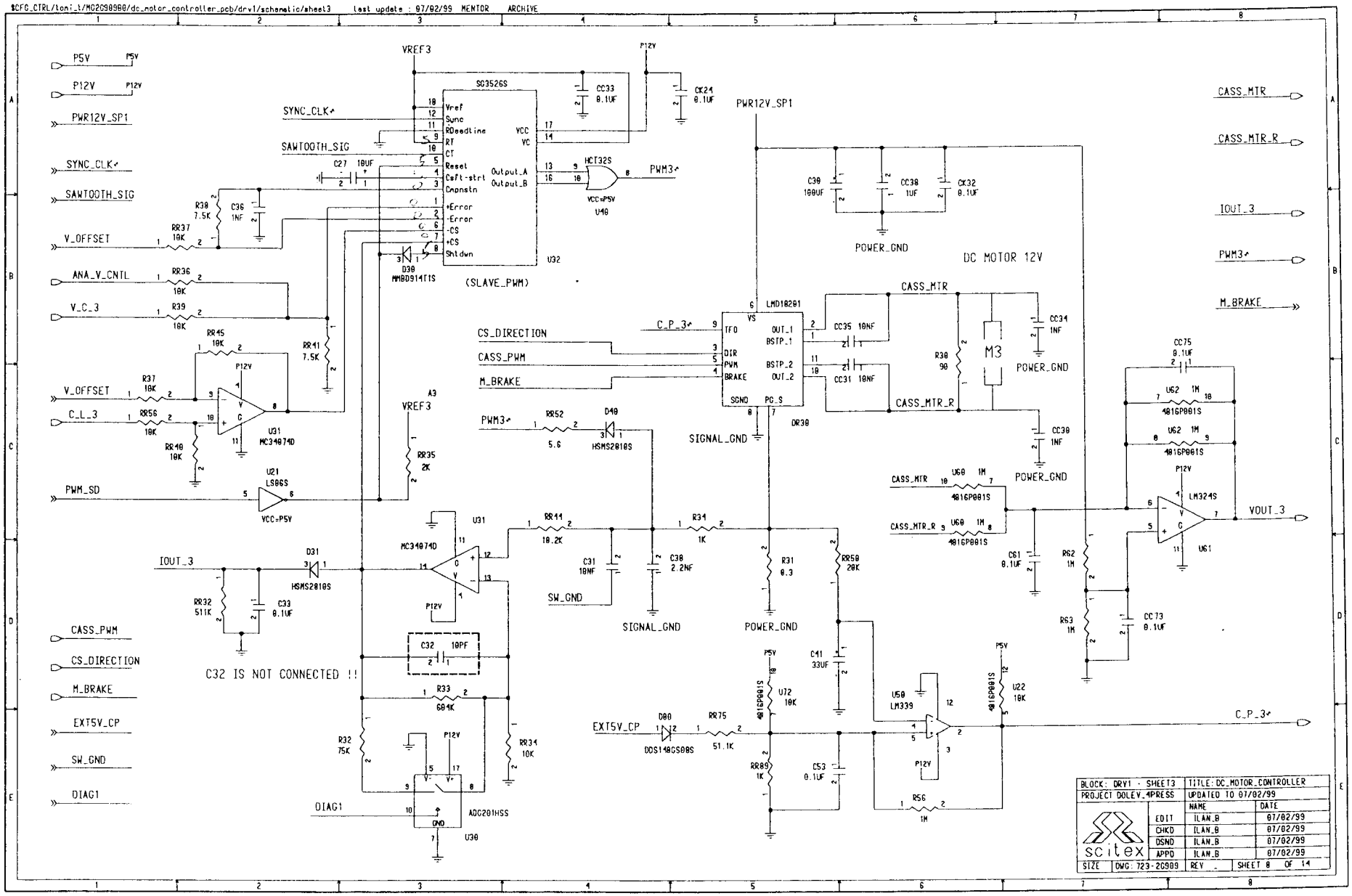

$CFG_CTRL/tomi_t/MG2090900/dc_motor_controller_pcb/interface/schematic/sheet1 last update : 07/02/99 MENTOR ARCHIVE
P12V
P5V
INT_LOCK1
SCL2
SDA2
VOUT_1
VOUT_2
VOUT_3
IOUT_1
IOUT_2
IOUT_3
CUTT_MTR_FBK
ND_FIL_FBK
TP_CARR_MTR_FBK
LOAD_SOL_FBK
UNLD_SOL_FBK
TP_SOL_FBK
LOAD_MTR_RST
UNLD_MTR_RST
CASS_MTR_RST
CUTT_MTR_RST
ND_FIL_RST
TP_CARR_MTR_RST
LOAD_SOL_RST
UNLD_SOL_RST
TP_SOL_RST
I2C_A2
SDA1
SCL1
24C02S
U75
VCC=P5V
LM393AS
U76
DRV_LOCK
U22
4816P001S
LM358M
U74
ADG508S
U73
ENABLE
DRAIN
MTRS_FB_A
C74 IS NOT CONNECTED !!
TDA8444S
U43
PCF8574TS
U35
U27
U44
U54
PCF8591S
HCT151S
U36
R=41
W=40
R=47
W=46
R=91
W=90
V_C_1
V_C_2
V_C_3
C_L_1
C_L_2
C_L_3
CUTT_CHOP_LEVEL
TP_CHOP_LEVEL
V_OFFSET
D_BRAKE
PWM_MODE
BRAKE_COMM
LOAD_DIR
UNLD_DIR
CASS_DIR
CUTTER_ON
CUTT_DIR
TP_CARR_MTR_ON
TP_CARR_DIR
ND_FIL_DIR
ND_FIL_ON
LOAD_SOL_ON
UNLD_SOL_ON
TP_SOL_ON
CLR_RST
DIAG1
DRV_LOCK
HIGH_TEMP
LED-RED
TLMR2200S
THERMOSTAT
BLOCK: INTERFACE
TITLE: DC_MOTOR_CONTROLLER
PROJECT DOLEV_4PRESS
UPDATED TO 07/02/99
NAME
DATE
EDIT ILAN_B 07/02/99
CHKD ILAN_B 07/02/99
DSNO ILAN_B 07/02/99
APPD ILAN_B 07/02/99
SIZE
DWG: 723-2G909
REV -
SHEET 3 OF 14
scitex

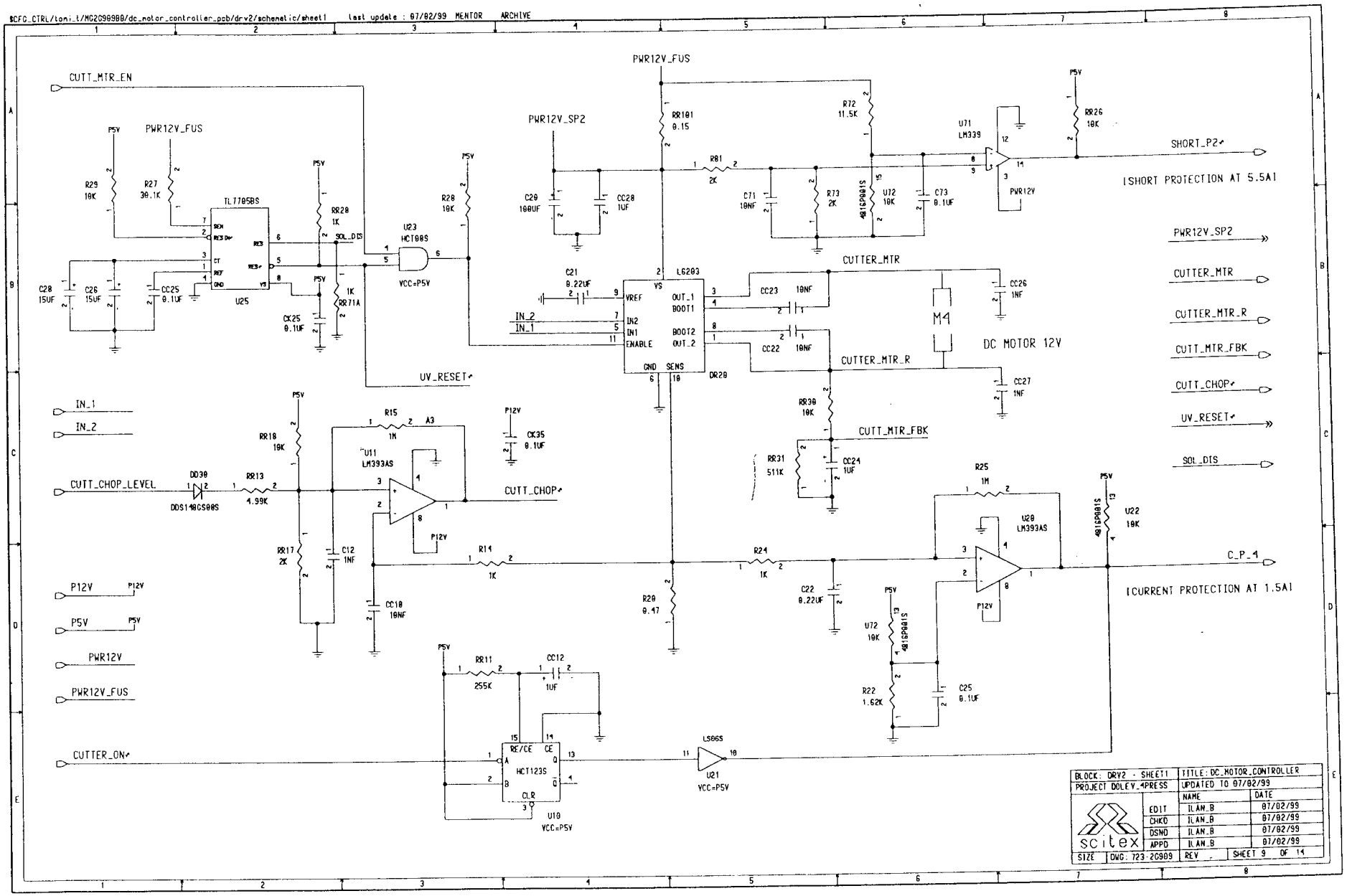

$CFG_CTRL/tomi_t/M02C98988/dc_motor_controller_pcb/pal/schematic/sheet1 last update : 07/02/99 MENTOR ARCHIVE
PAL1N - DIAG_SEQUENCER
modelfile 187K2C327
PAL5N - PWM_SEQUENCER
modelfile 187K2C325
PAL3N - OVERLOAD_LATCH
modelfile 187K2C329
P5V
LOAD_DIR
UNLD_DIR
CASS_DIR
DIAG1
DRV_LOCK
CLR_RST
RST_DRV
C_P_1
C_P_2
C_P_3
C_P_4
C_P_5
C_P_6
SHORT_P1
SHORT_P2
HIGH_TEMP
PWM1
PWM2
PWM3
PWM_MODE
D_BRAKE
PWM_SD
SOL_SHUTD
MTR_ON*_DIAG
SOL_ON*_DIAG
LOAD_MTR_RST
UNLD_MTR_RST
CASS_MTR_RST
PWM_SHUTD
CUTT_MTR_RST
ND_FIL_RST
TP_CARR_MTR_RST
DRV_OVERLOAD
Q1
M_BRAKE
LOAD_PWM
LD_DIRECTION
UNLD_PWM
UD_DIRECTION
CASS_PWM
CS_DIRECTION
RED LEDS
BLOCK: PAL - SHEET1
TITLE: DC_MOTOR_CONTROLLER
PROJECT DOLEV_4PRESS
UPDATED TO 07/02/99
scitex
SIZE A3
DWG: 723-2C988
REV -
SHEET 1 OF 14

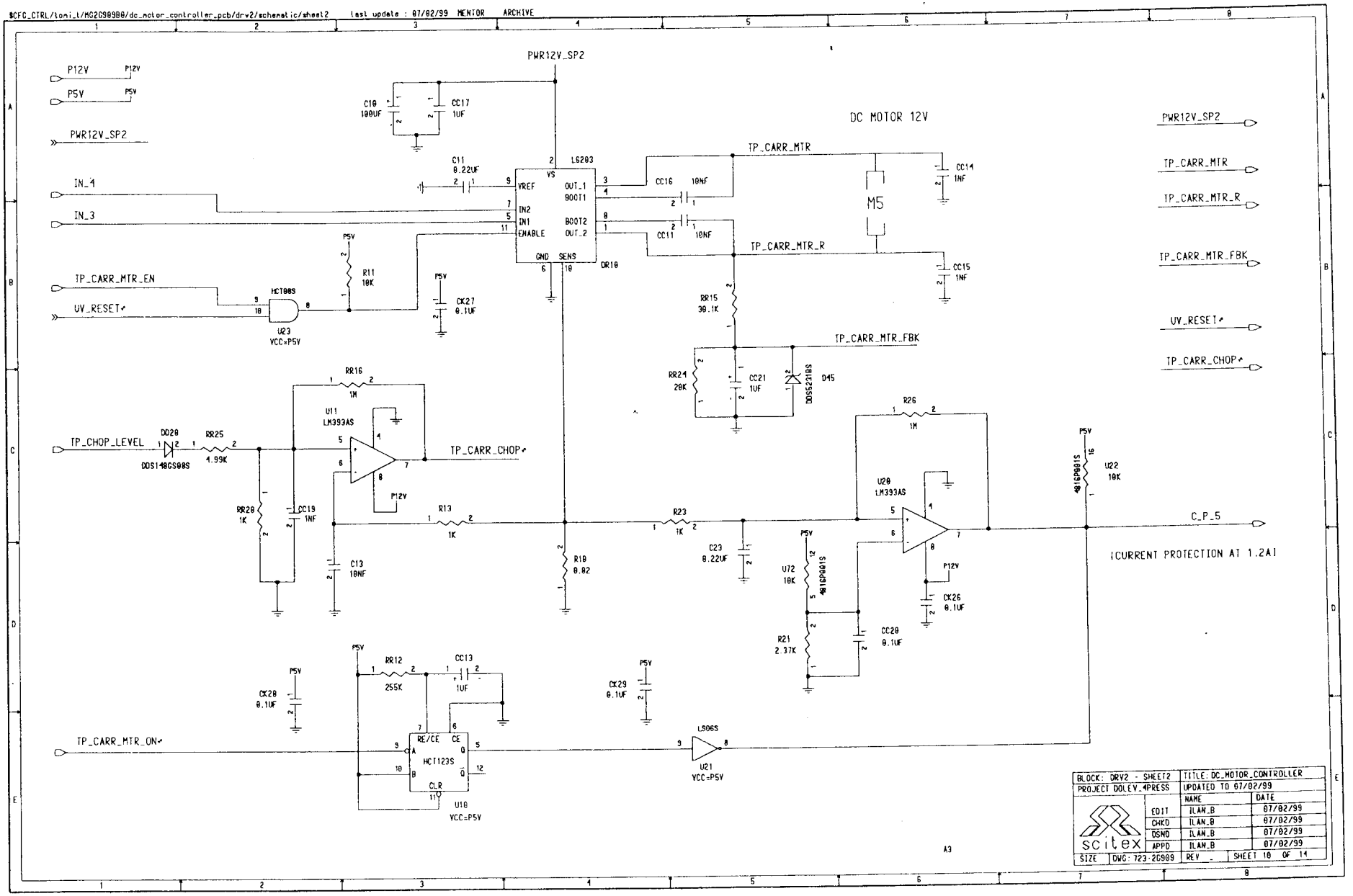

PAL2N_TP - ON_OFF_SEQUENCER
modelfile 107K2G914
PAL4N - SOLENOID_SEQUENCER
modelfile 107K2G338
P5V
CUTTER_ON
CUTT_DIR
CUTT_CHOP
TP_CARR_MTR_ON
TP_CARR_DIR
TP_CARR_CHOP
ND_FIL_ON
ND_FIL_DIR
Q1
DIAG1
RST_DRV
CLR_RST
DRV_LOCK
CUTT_MTR_RST
TP_CARR_MTR_RST
ND_FIL_RST
BRAKE_COMM
LOAD_SOL_ON
UNLD_SOL_ON
TP_SOL_ON
C_P_7
C_P_8
C_P_9
SOL_ON_DIAG
MTR_ON_DIAG
CUTT_MTR_EN
IN_1
IN_2
TP_CARR_MTR_EN
IN_3
IN_4
ND_FIL_EN
IN_5
IN_6
CUTT_MTR_RST
ND_FIL_RST
TP_CARR_MTR_RST
LD_SOL_EN
UD_SOL_EN
TP_SOL_EN
TP_SOL_RST
LOAD_SOL_RST
UNLD_SOL_RST
SOL_SHUTD
RR22 10K
RR23 1K
RR19 1K
C24 6.8UF
CK14 0.1UF
U14
VCC=P5V
RR33 255K
C29 33UF
U33
HCT123S
RE/CE
CE
CLR
U24
HCT10S
CK9 0.1UF
RR42 10K
CK13 0.1UF
RR43 255K
C37 33UF
CK15 0.1UF
U34
U21
LD8
LD9
LD10
TLMR2200S
U12 1K
SIP8R9S1K8
RED LEDS
BLOCK: PAL - SHEET2
TITLE: DC_MOTOR_CONTROLLER
PROJECT DOLEV_4PRESS
UPDATED TO 07/02/99
NAME
DATE
EDIT ILAN_B 07/02/99
CHKD ILAN_B 07/02/99
DSND ILAN_B 07/02/99
APPD ILAN_B 07/02/99
SCITEX
SIZE A3 DWG: 723-2G909 REV -
SHEET 5 OF 14

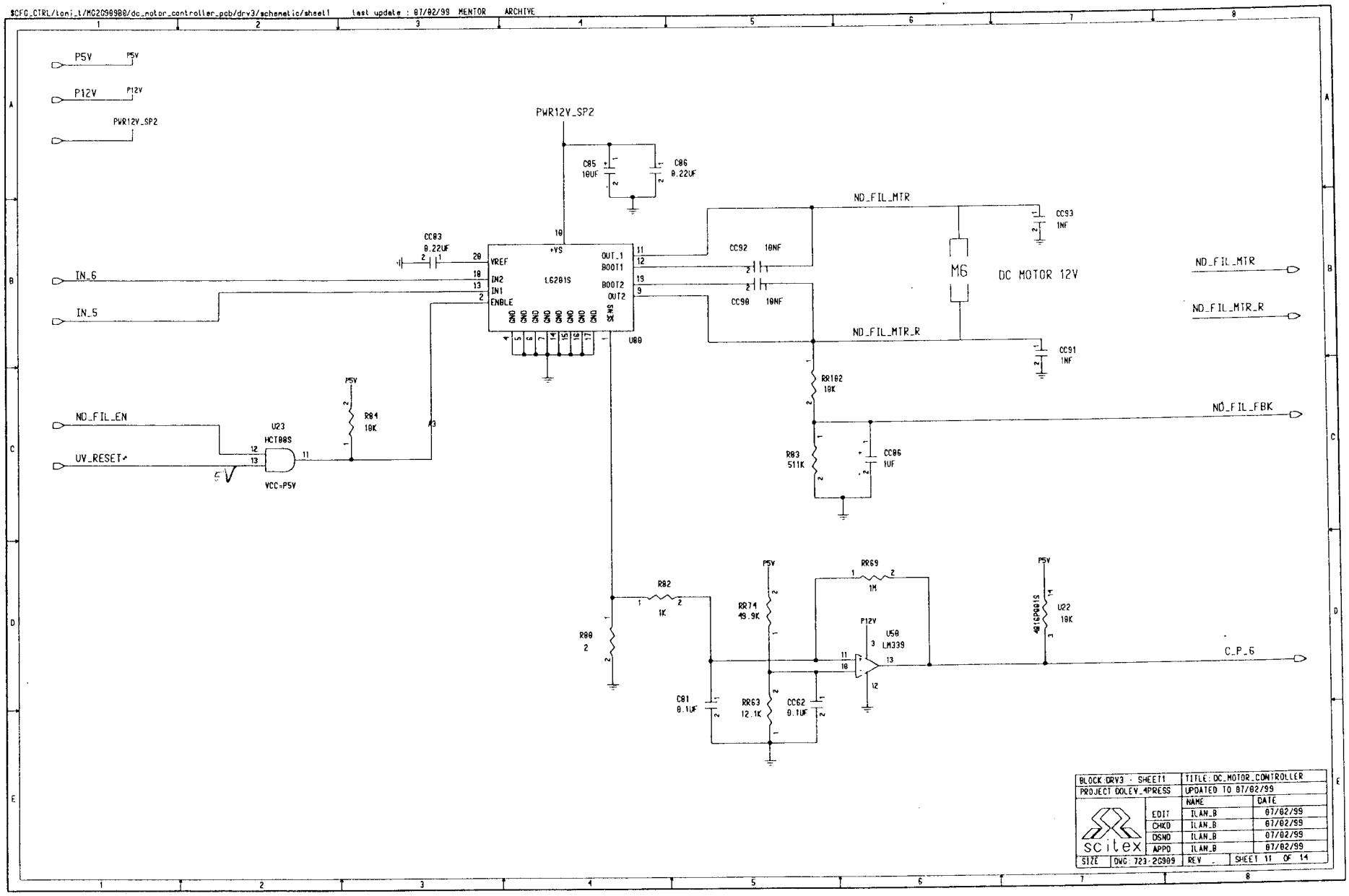

$CFG_CTRL/toni_t/MG20989B0/dc_motor_controller_pcb/drv1/schematic/sheet1 last update : 07/02/99 MENTOR ARCHIVE
P5V
P12V
PWR12V
PWR12V_FUS
SYNC_CLK
SAWTOOTH_SIG
V_OFFSET
V_C_1
C_L_1
BRAKE_COMM
PWM_SHUTD
UV_RESET
PWM_SD
VREF1
SG3526S
Vref
Sync
RDeadtime
RT
CT
Reset
Soft-strt
Cmpnstn
+Error
-Error
-CS
+CS
Shtdwn
Output_A
Output_B
VCC
VC
HCT32S
U40
U51
(SLAVE_PWM)
D43
MMBD914T1S
HCT08S
LS06S
VCC=P5V
5V
R53 10K
RR76 7.5K
RR66 7.5K
CC48 10NF
C45 10UF
R54 2K
A3
PWR12V_SP1
LMD18201
LD_DIRECTION
LOAD_PWM
M_BRAKE
C_P_1
VS
TFO
DIR
PWM
BRAKE
SGND
PG_S
OUT_1
BSTP_1
BSTP_2
OUT_2
DR50
SIGNAL_GND
POWER_GND
DC MOTOR 12V
LOAD_MTR
LOAD_MTR_R
M1
R50 90
CC71 10NF
CC51 10NF
CC70 1NF
CC50 1NF
CC61 0.1UF
U62 1M
4816P001S
CC63 0.1UF
CC74 0.1UF
U60 1M
U61
LM324S
VOUT_1
V_OFFSET
DIAG1
IOUT_1
C_P_1
PWM1
RR57 5.6
D42
HSMS2810S
MC34074D
U31
RR47 18.2K
R52 1K
R51 0.2
RR72 20K
C34 10NF
C51 2.2NF
CS2 33UF
D44
RR62 511K
C47 0.1UF
CK16 0.1UF
CC36 IS NOT CONNECTED !
CC36 10PF
RR54 604K
RR53 82.5K
RR51 10K
ADG201HSS
U30
EXT5V_CP
D81
DDS148CS08S
RR85 51.1K
RR71 1.1K
CC60 0.1UF
U72 10K
U22 10K
U50
LM339
R57 1M
CK20 0.1UF
RR198 0.15
RR79 11.5K
R60 2K
R61 2K
C70 10NF
C72 0.1UF
CK19 0.1UF
U71
RR29 10K
CC55 0.1UF
CK18 0.1UF
CK34 0.1UF
C50 100UF
CC76 1UF
LOAD_MTR
LOAD_MTR_R
SHORT_P1
PWM1
EXT5V_CP
PWR12V_SP1
M_BRAKE
PWM_SD
PWM_SD
V_OFFSET
DIAG1
IOUT_1
C_P_1
BLOCK: DRV1 - SHEET1
TITLE: DC_MOTOR_CONTROLLER
PROJECT DOLEV_4PRESS
UPDATED TO 07/02/99
NAME
DATE
EDIT ILAN_B 07/02/99
CHKD ILAN_B 07/02/99
DSND ILAN_B 07/02/99
APPD ILAN_B 07/02/99
scitex
SIZE
DWG: 723-2C909
REV
SHEET 6 OF 14

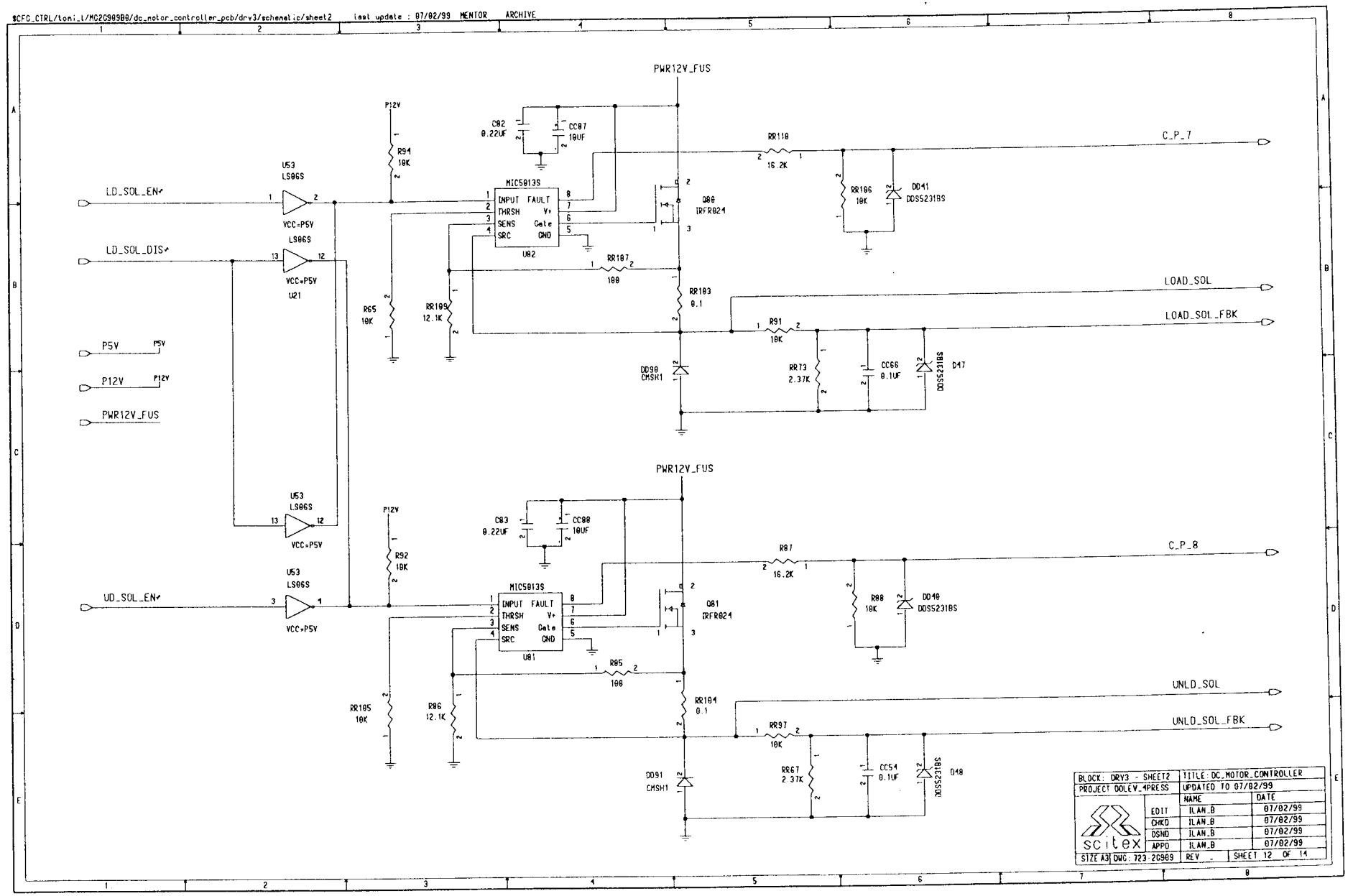

$CFG_CTRL/tomi_t/MG2G9B9B0/dc_motor_controller_pcb/drv1/schematic/sheet2 last update : 07/02/99 MENTOR ARCHIVE
P5V
P12V
PWR12V_SP1
SAWTOOTH_SIG
SYNC_CLK
V_OFFSET
V_C_2
C_L_2
PWM_SD
IOUT_2
UNLD_PWM
UD_DIRECTION
M_BRAKE
EXT5V_CP
DIAG1
SG3526S
(MASTER_PWM)
LMD18201
DC MOTOR 12V
M2
UNLD_MTR
UNLD_MTR_R
C_P_2
VOUT_2
SW_GND
SIGNAL_GND
POWER_GND
VREF2
CC32 IS NOT CONNECTED !!
BLOCK: DRV1 - SHEET2
TITLE: DC_MOTOR_CONTROLLER
PROJECT DOLEV_4PRESS
UPDATED TO 07/02/99
EDIT ILAN_B 07/02/99
CHKD ILAN_B 07/02/99
DSND ILAN_B 07/02/99
APPD ILAN_B 07/02/99
scitex
SIZE DWG: 723-2C989 REV _ SHEET 7 OF 14

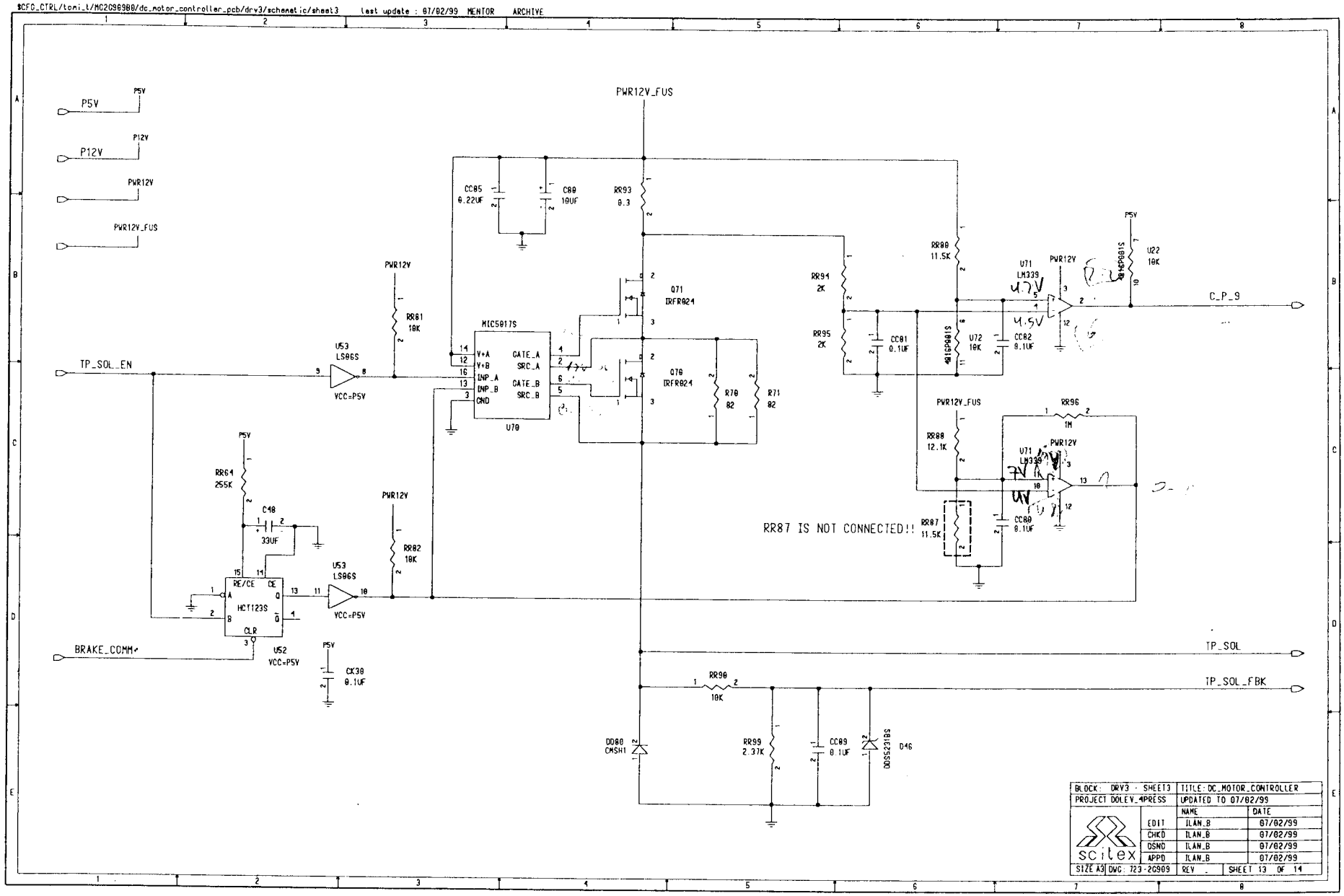

$CFG_CTRL/toni_t/MG20S0980/dc_motor_controller_pcb/drv1/schematic/sheet3 last update : 97/02/99 MENTOR ARCHIVE
P5V
P12V
PWR12V_SP1
SYNC_CLK
SAWTOOTH_SIG
V_OFFSET
ANA_V_CNTL
V_C_3
V_OFFSET
C_L_3
PWM_SD
IOUT_3
CASS_PWM
CS_DIRECTION
M_BRAKE
EXT5V_CP
SW_GND
DIAG1
VREF3
SG3526S
Vref
Sync
RDeadtime
RT
CT
Reset
Csft-strt
Cmpnstn
+Error
-Error
-CS
+CS
Shtdwn
Output_A
Output_B
VCC
VC
HCT32S
PWM3
VCC=P5V
U40
U32
(SLAVE_PWM)
MMBD914TTS
C27 10UF
R38 7.5K
C36 1NF
RR37 10K
RR36 10K
R39 10K
RR45 10K
RR41 7.5K
R37 10K
RR56 10K
RR40 10K
U31
MC34074D
U21
LS86S
RR35 2K
A3
RR52 5.6
D40
HSMS2810S
D31
HSMS2810S
RR32 511K
C33 0.1UF
C32 10PF
C32 IS NOT CONNECTED !!
R33 604K
R32 75K
RR34 10K
DIAG1
ADG201HSS
U30
RR11 18.2K
C31 10NF
C30 2.2NF
R34 1K
R31 0.3
RR59 20K
SW_GND
SIGNAL_GND
POWER_GND
CC33 0.1UF
CK24 0.1UF
C39 100UF
CC38 1UF
CK32 0.1UF
PWR12V_SP1
DC MOTOR 12V
LMD18201
VS
TFO
DIR
PWM
BRAKE
SGND
OUT_1
BSTP_1
BSTP_2
OUT_2
PG_S
CC35 10NF
CC31 10NF
CASS_MTR
CASS_MTR_R
R30 90
M3
CC34 1NF
CC30 1NF
DR30
SIGNAL_GND
POWER_GND
CC75 0.1UF
U62 1M
4816P001S
U60 1M
4816P001S
LM324S
U61
VOUT_3
CS1 0.1UF
RS2 1M
RS3 1M
CC73 0.1UF
C41 33UF
U72 10K
U22 10K
U50
LM339
D80
DDS140GS08S
RR75 51.1K
RR89 1K
C53 0.1UF
RS6 1M
C_P_3
CASS_MTR
CASS_MTR_R
M_BRAKE
IOUT_3
VOUT_3
C_P_3
EXT5V_CP
BLOCK: DRV1 - SHEET3
TITLE: DC_MOTOR_CONTROLLER
PROJECT DOLEV_4PRESS
UPDATED TO 07/02/99
NAME
DATE
EDIT ILAN_B 07/02/99
CHKD ILAN_B 07/02/99
DSND ILAN_B 07/02/99
APPD ILAN_B 07/02/99
SCITEX
SIZE
DWG: 723-20989
REV -
SHEET 8 OF 14

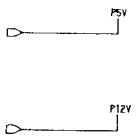

$CFG_CTRL/toni_t/MG2G9980/dc_motor_controller_pcb/drv2/schematic/sheet1 last update : 07/02/99 MENTOR ARCHIVE
CUTT_MTR_EN
PWR12V_FUS
PWR12V_SP2
SHORT_P2
SHORT PROTECTION AT 5.5A!
PWR12V_SP2
CUTTER_MTR
CUTTER_MTR_R
CUTT_MTR_FBK
CUTT_CHOP
UV_RESET
SOL_DIS
C_P_1
CURRENT PROTECTION AT 1.5A!
DC MOTOR 12V
IN_1
IN_2
CUTT_CHOP_LEVEL
P12V
P5V
PWR12V
CUTTER_ON
TL7705BS
U25
U23 HCT08S
L6203
U11 LM393AS
U20 LM393AS
U71 LM339
U72 4816P001S
U21 LS06S
U10 HCT123S
VCC=P5V
DDS148CS00S
SCITEX
BLOCK: DRV2 - SHEET1
TITLE: DC_MOTOR_CONTROLLER
PROJECT DOLEV_4PRESS
UPDATED TO 07/02/99
NAME DATE
EDIT ILAN_B 07/02/99
CHKD ILAN_B 07/02/99
DSND ILAN_B 07/02/99
APPD ILAN_B 07/02/99
SIZE DWG: 723-20909 REV SHEET 9 OF 14

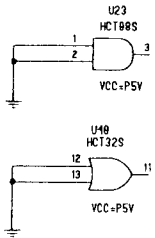

$CFC_CTRL/toni_t/MG2C909B0/dc_motor_controller_pcb/drv2/schematic/sheet2 last update : 07/02/99 MENTOR ARCHIVE
DC MOTOR 12V
PWR12V_SP2
P12V
P5V
IN_1
IN_3
TP_CARR_MTR_EN
UV_RESET
TP_CHOP_LEVEL
TP_CARR_MTR_ON
TP_CARR_MTR
TP_CARR_MTR_R
TP_CARR_MTR_FBK
TP_CARR_CHOP
C_P_5
M5
L6203
HCT08S
HCT123S
LM393AS
LS06S
DDS148GS08S
DDS5231BS
4816P001S
CURRENT PROTECTION AT 1.2A!
BLOCK: DRV2 - SHEET2
TITLE: DC_MOTOR_CONTROLLER
PROJECT DOLEV_4PRESS
UPDATED TO 07/02/99
NAME
DATE
EDIT ILAN_B 07/02/99
CHKD ILAN_B 07/02/99
DSND ILAN_B 07/02/99
APPD ILAN_B 07/02/99
scitex
SIZE
DWG: 723-2G909
REV -
SHEET 10 OF 14
A3

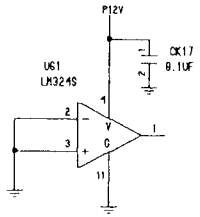

$CFG_CTRL/toni_t/MG2G989B8/dc_motor_controller_pcb/drv3/schematic/sheet1 last update : 07/02/99 MENTOR ARCHIVE
P5V
P12V
PWR12V_SP2
C85 10UF
C86 0.22UF
C83 0.22UF
L6201S
VREF
IN2
IN1
ENBLE
+VS
OUT_1
BOOT1
BOOT2
OUT2
SENS
U89
IN_6
IN_5
C92 10NF
C90 10NF
C93 1NF
C91 1NF
M6
DC MOTOR 12V
ND_FIL_MTR
ND_FIL_MTR_R
RR102 10K
ND_FIL_FBK
R83 511K
C86 1UF
ND_FIL_EN
UV_RESET
U23
HCT08S
VCC=P5V
R84 10K
R82 1K
R80 2
RR74 49.9K
RR69 1M
U50
LM339
P12V
C81 0.1UF
RR63 12.1K
CC62 0.1UF
4815P901S
U22 10K
C_P_6
BLOCK:DRV3 - SHEET1
TITLE: DC_MOTOR_CONTROLLER
PROJECT DOLEV_4PRESS
UPDATED TO 07/02/99
NAME
DATE
EDIT ILAN_B 07/02/99
CHKD ILAN_B 07/02/99
DSND ILAN_B 07/02/99
APPD ILAN_B 07/02/99
scitex
SIZE
DWG 723-2G989
REV -
SHEET 11 OF 14

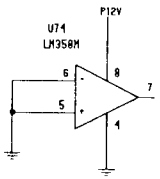

$CFG_CTRL/toni_l/MG2G909B8/dc_motor_controller_pcb/drv3/schematic/sheet2 last update : 07/02/99 MENTOR ARCHIVE
PWR12V_FUS
P12V
C82 0.22UF
CC87 10UF
RR110 16.2K
C_P_7
R94 10K
U53 LS06S
LD_SOL_EN
VCC=P5V
MIC5013S
INPUT FAULT
THRSH V+
SENS Gate
SRC GND
U82
Q88 IRFR024
RR106 10K
DD41 DDS5231BS
LD_SOL_DIS
LS06S
VCC=P5V
U21
RR107 100
LOAD_SOL
RR103 0.1
R65 10K
RR109 12.1K
R91 10K
LOAD_SOL_FBK
P5V
P12V
PWR12V_FUS
DD98 CMSH1
RR73 2.37K
CC66 0.1UF
DD47 DDS5231BS
PWR12V_FUS
P12V
C83 0.22UF
CC88 10UF
R87 16.2K
C_P_8
U53 LS06S
R92 10K
VCC=P5V
U53 LS06S
UD_SOL_EN
VCC=P5V
MIC5013S
INPUT FAULT
THRSH V+
SENS Gate
SRC GND
U81
Q81 IRFR024
R88 10K
DD48 DDS5231BS
R85 100
UNLD_SOL
RR104 0.1
RR105 10K
R86 12.1K
RR97 10K
UNLD_SOL_FBK
DD91 CMSH1
RR67 2.37K
CC54 0.1UF
DD49 DDS5231BS
BLOCK: DRV3 - SHEET2
TITLE: DC_MOTOR_CONTROLLER
PROJECT DOLEV_4PRESS
UPDATED TO 07/02/99
NAME DATE
EDIT ILAN_B 07/02/99
CHKD ILAN_B 07/02/99
DSND ILAN_B 07/02/99
APPD ILAN_B 07/02/99
scitex
SIZE A3 DWG: 723-2G909 REV -
SHEET 12 OF 14

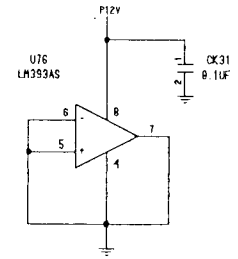

$CFG_CTRL/toni_t/MC2G969B0/dc_motor_controller_pcb/drv3/schematic/sheet3 last update : 07/02/99 MENTOR ARCHIVE
P5V
P12V
PWR12V
PWR12V_FUS
TP_SOL_EN
BRAKE_COMM
CC85 0.22UF
C80 10UF
RR93 0.3
RR81 10K
RR82 10K
RR64 255K
C48 33UF
CX30 0.1UF
U53 LS96S
VCC=P5V
U52 HCT123S
MIC5017S
U70
Q71 IRFR024
Q70 IRFR024
R70 82
R71 82
RR91 2K
RR95 2K
CC81 0.1UF
RR88 11.5K
U71 LM339
U72 10K
CC82 0.1UF
U22 10K
C_P_9
RR96 1M
RR88 12.1K
RR87 11.5K
CC80 0.1UF
RR87 IS NOT CONNECTED!!
TP_SOL
TP_SOL_FBK
RR90 10K
DD80 CMSH1
RR99 2.37K
CC89 0.1UF
DD5S2319S
D46
BLOCK: DRV3 - SHEET3
PROJECT DOLEV_4PRESS
TITLE: DC_MOTOR_CONTROLLER
UPDATED TO 07/02/99
NAME DATE
EDIT ILAN_B 07/02/99
CHKD ILAN_B 07/02/99
DSND ILAN_B 07/02/99
APPD ILAN_B 07/02/99
SCITEX
SIZE A3 DWG. 723-2G909 REV . SHEET 13 OF 14

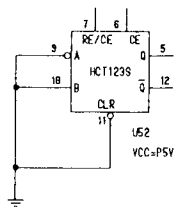












BLOCK: SPARE		TITLE: DC_MOTOR_CONTROLLER	
PROJECT DOLEY_4PRESS		UPDATED TO 07/02/99	
		NAME	DATE
	EDIT	ILAN_B	07/02/99
	CHKD	ILAN_B	07/02/99
	DSND	ILAN_B	07/02/99
scitex	APPD	ILAN_B	07/02/99
SIZE A3	DWG: 723-2G989	REV _	SHEET 14 OF 14