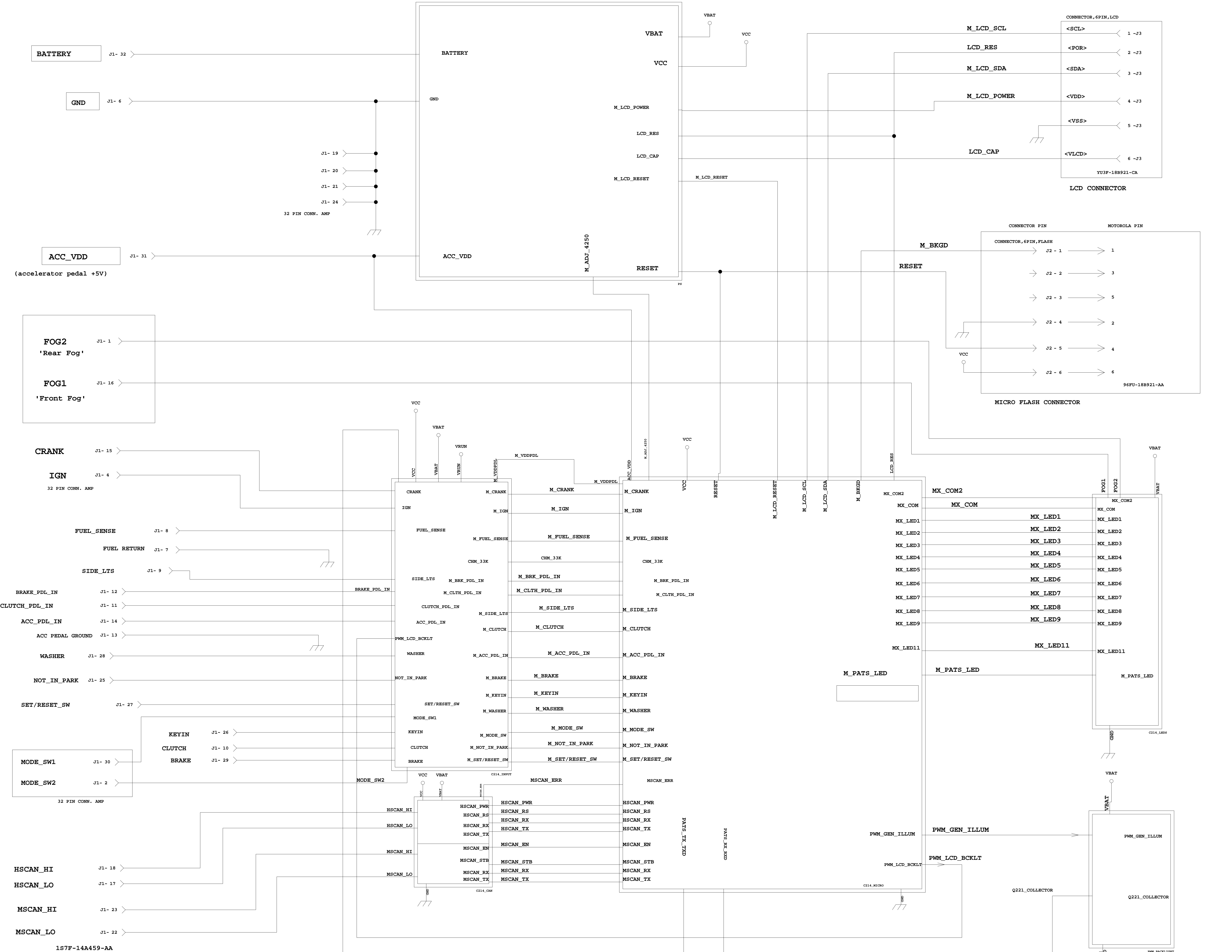


NO.	DATE	LET	REVISIONS	CU	MAN	CK	APP
MS-XXXX-3458-XX							
C307 MID (11665)							
021025			- the two FOG lamp LEDs added (J1-1 and J1-16 connector pins)				
021101			- RN211, RN212 changed to 390 ohms				
021112			-R651, R652, C203, C203A taken off -R96 changed to 750 ohm				
021118			- the pointer illum. res changed (R105, R401, R96)				
021128			- IGN circuit changed - the pedal circuit changed - the fog telltale circuit changed				
021128			- Y1, IC1 part numbers changed - C40, RN211, RN212, R612, C201 and YN555 taken off				

NO.	DATE	LET	REVISIONS	CU	MAN	CK	APP
C307 MID (12146)							
030407			- MODE_SW2 input added at J1-2 (Pg4) - stepper motor TP's deleted (Pg3) - TP611 deleted (Pg7) - C602 deleted (Pg4) - C910, R910, RN8, TP910, TP911 added (Pg4) - net CHM_33K added - nets PWM_LCD_BCKLT and Q221_COLLECTOR reconfigured				
030520			*Pg2: - TPLCD2 and NC39 deleted - the heatsink TP's deleted				
			*Pg6: - R88A & R101A deleted, - R88 & R101 change to 300 ohm (were of 390 ohm)				
030530			* thegreen LEDs p/n=NE11002BF.. changed to p/n=NE21007BF..				
030617			* PWM_xx nets put back to 'PWB11665' - TP153, TP802 deleted (duplicated) - all NCxx cells / parts deleted				



The production note :
the parts to be depopulated :
RN11, RN18, C2A

PART MUST COMPLY WITH SPECIFICATION MS-899999-01 TO HELP SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT

Visteon PRODUCT ENGINEERING

COMPUTER MANUAL **E** SIZE

CU COLOR = GRAPHIC DATA LEVEL ORIGINAL WHEN RED

ENGLISH METRIC

DO NOT SCALE ABOVE SCALE FOR REFERENCE ONLY

REF	0307_MID
DATE	030617
CHECKED	
SCALE	NONE
APPROVED	V. POLESKIC

UNLESS OTHERWISE SPECIFIED:
CONSTRUCTION ARE IN
 INCHES MILLIMETERS 3RD ANGLE PROJECTION
MACHINED DIM. +/- STAMPED DIM. +/-
ANGULAR DIM. +/-

MATERIAL	APP	C307 MID
	DATE	030617

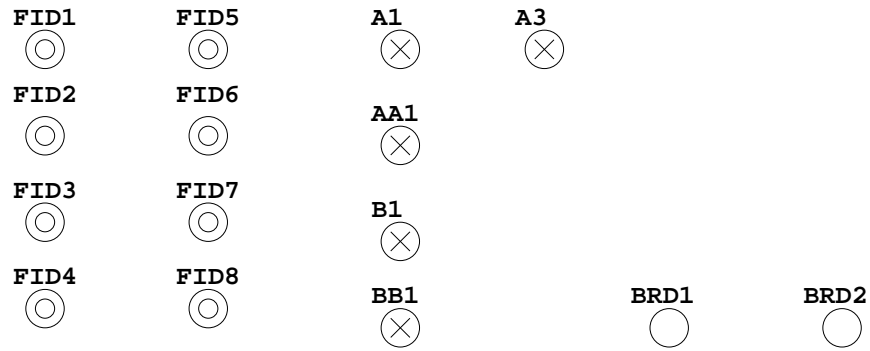
NAME SKETCH - WIRING DIAGRAM PWB12146

NO. **MS-XXXX-3458-XX**

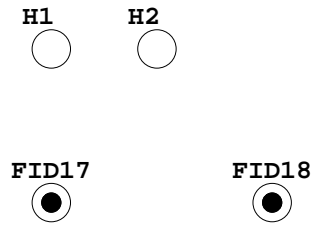
CADIZ MECHANICAL DETAIL

THIS SHEET IS NOT TO BE CHANGED

MOTHERPANEL DETAIL



DAUGHTER BOARD DETAIL



TOOLING HOLES (2.5mm/HL-098)
(test/routing)

GLOBAL FIDUCIALS (top)

ED1

ED2

EDGE
MARK

EDGE
MARK

H4 CHANGED FROM PTH
TO NPTH MCL 010402

H6, H7 , H13, H14 removed.

CM1

CM2

CM3

CM4

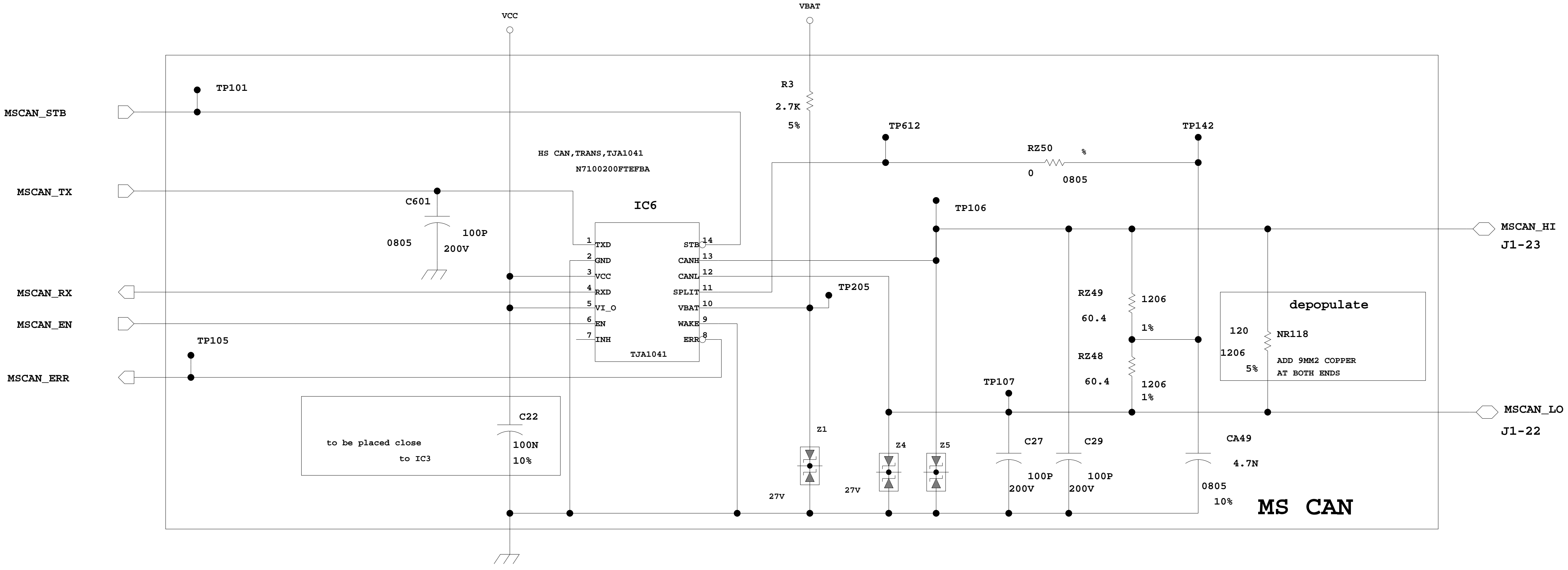
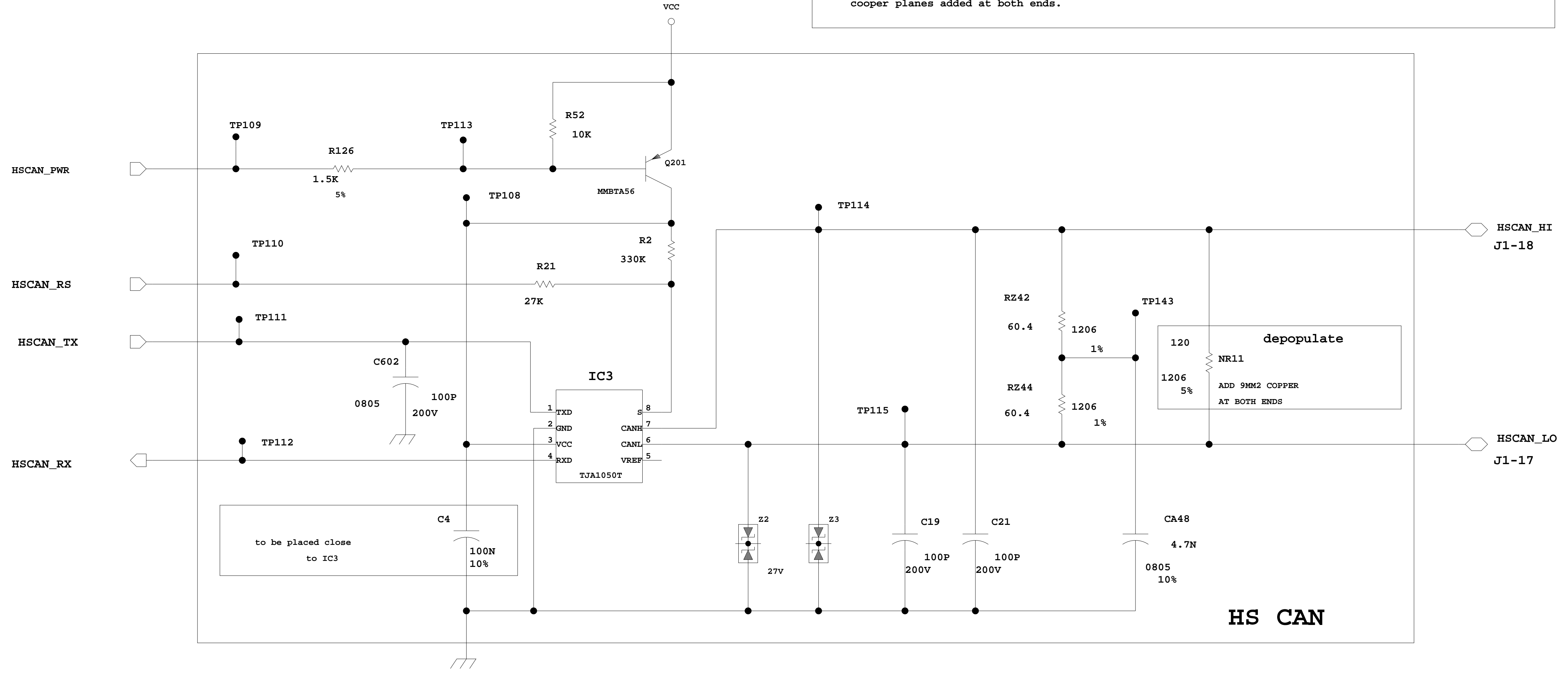
CROP
EDGE
MARK

CROP
EDGE
MARK

CROP
EDGE
MARK

CROP
EDGE
MARK

- CAN output lines xxx_HI and xxx_LO to be screened.
 - the 60.4 ohm and 120 ohm resistors to have 9 mm2
 cooper planes added at both ends.



NO. MS-XXXX-3458-XX						
DATE	LET	REVISIONS	CG	MAN	CK	APP
PWB11250 (C214 MID 1PP):						
020524		- R126 changed to 1k5 (was 1k)				
C214 1PP MID (11409)						
020724		- no changes made.				
C214 1PP MID (11588)						
021017		- NR601 (2k7) taken off - C601, C602 changed to 100p				
C214 C307 MID (11665)						
021025		- no changes made				
C307 MID (12146)						
030407		- TP611 deleted (IC6-9)				

PART MUST COMPLY WITH SPECIFICATION WSS-M99F9999-A1 TO HELP SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT

Visteon PRODUCT ENGINEERING

COMPUTER MANUAL "D" SIZE

CG COLUMN = GRAPHIC DATA LEVEL ORIGINAL WHEN RED

DO NOT SCALE ABOVE SCALE FOR REFERENCE ONLY

REF	\C307_MID				
DRAWN BY	DATE	CHECKED	SCALE	APPROVED	
V. POLEKSIC	030407		NONE	C307 MID	030407

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES MILLIMETERS
 MACHINED DIM. +/-
 ANGULAR DIM. +/-

3RD ANGLE PROJECTION STAMPED DIM. +/-

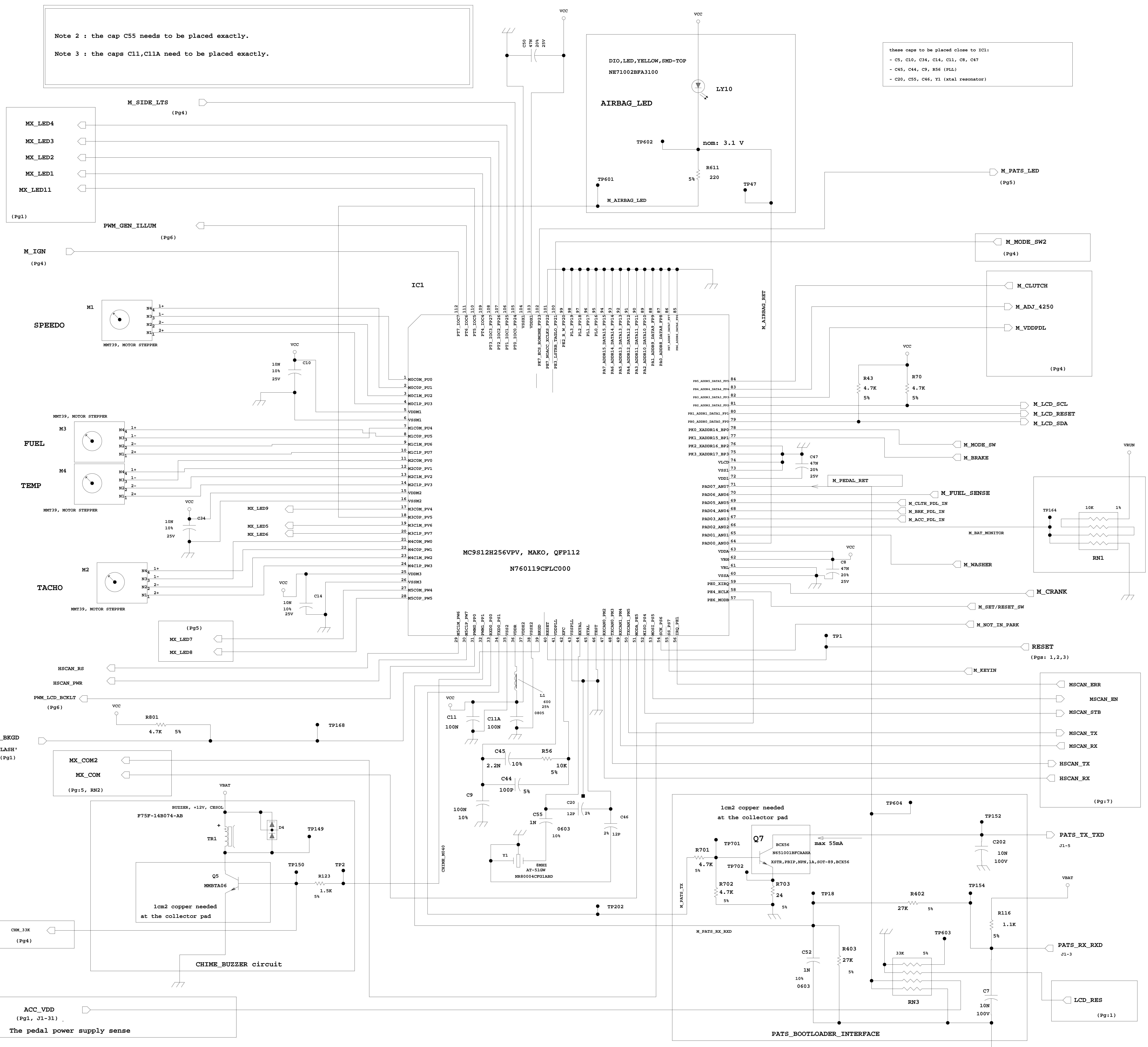
MATERIAL	APP
	C214 C307 MID
NAME	DATE
SKETCH - WIRING DIAGRAM	
PWB12146.1	

NO. MS-4M5F-3845-BJ

DATE	LET	REV#/CHG#	CO	MAN	CK	APP

Note 2 : the cap C55 needs to be placed exactly.
 Note 3 : the caps C11,C11A need to be placed exactly.

these caps to be placed close to IC1:
 - C5, C10, C34, C14, C11, C8, C47
 - C45, C44, C9, R56 (PLL)
 - C20, C55, C46, Y1 (xtal resonator)



C214 1PP MID (11250)
 020527 - Y1 crystal changed to 8.00MHz NX8045GB, 20ppm (NDK)
 C45=470 nF, C44=47 nF, R56=470 ohms
 - M_TRIP_SW relocated to PE4 (IC1-58)
 - R123 changed to 1k5 (was 1k)
 - res. R401 renamed to R403
 020605 - Y1 (crystal 8.00MHz) updated
 020605 - RN1 changed to 10k, 1% (was 33k).

C214 1PP MID (11409)
 020724 - PLL 'values' changed: R56, C44, C45 to support a 16MHz PLL clock (was an 8MHz before)
 - PATS TX output (Q110) changed, the components added: R701, R702, R703, Q7,

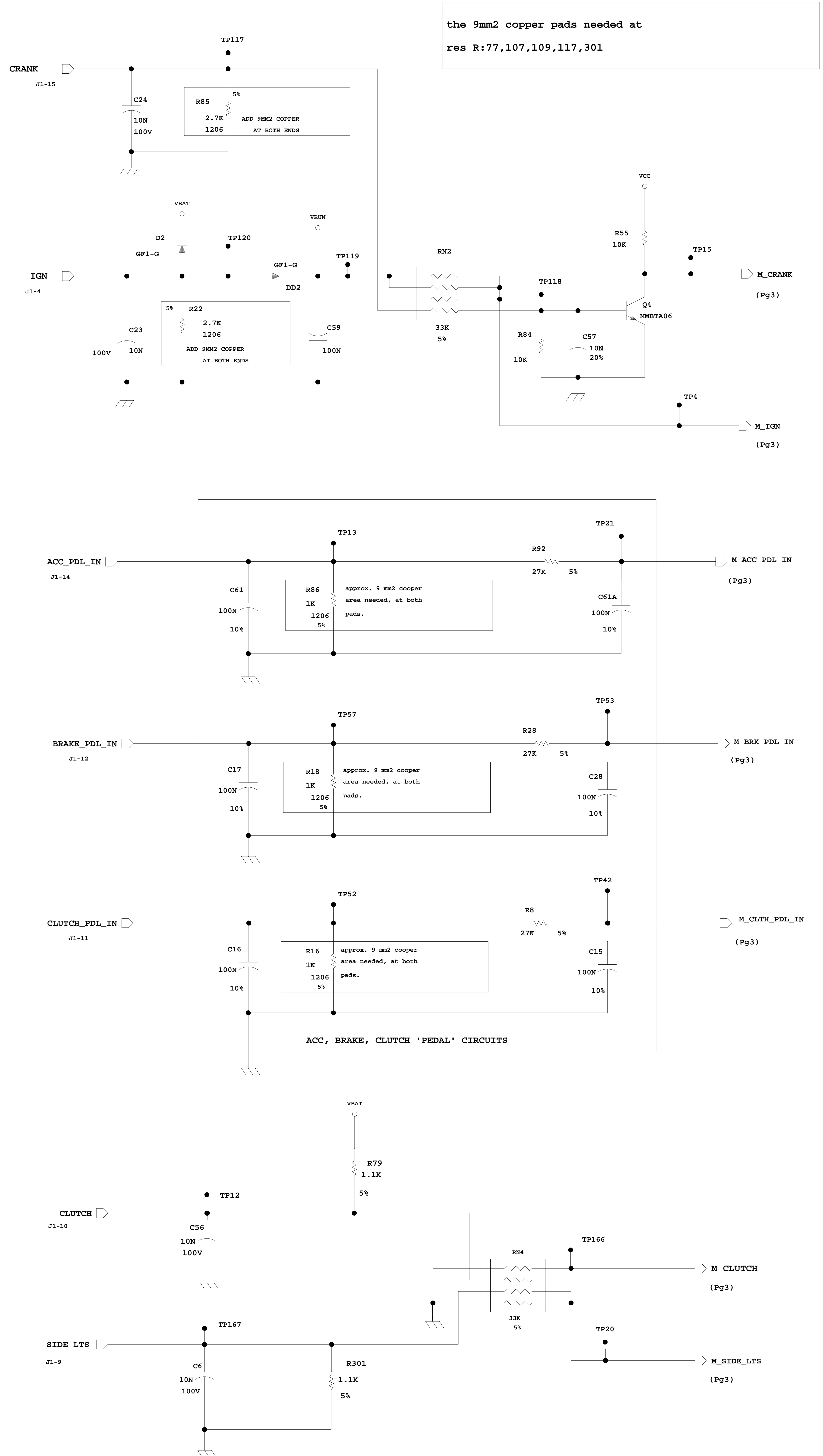
C214 1PP MID (11588)
 021011 - RN211, RN212 added (RESET, BKGD)
 - PLL circuit (C44,C45,R56) changed
 - R801 pull up added (BKGD line)
 021015 - the opt. res. added (AT-51GW)
 - TP701 added (M_BKGD line)

C214 C307 MID (11665)
 021101 - RN211, RN212 changed to 390 ohms.
 021127 - R802 (10k) added at CHIME circuit
 021206 - R612,RN211,RN212,C201,YN555 taken off
 - Y1 part number changed (AT51GW, 8.00MHz)

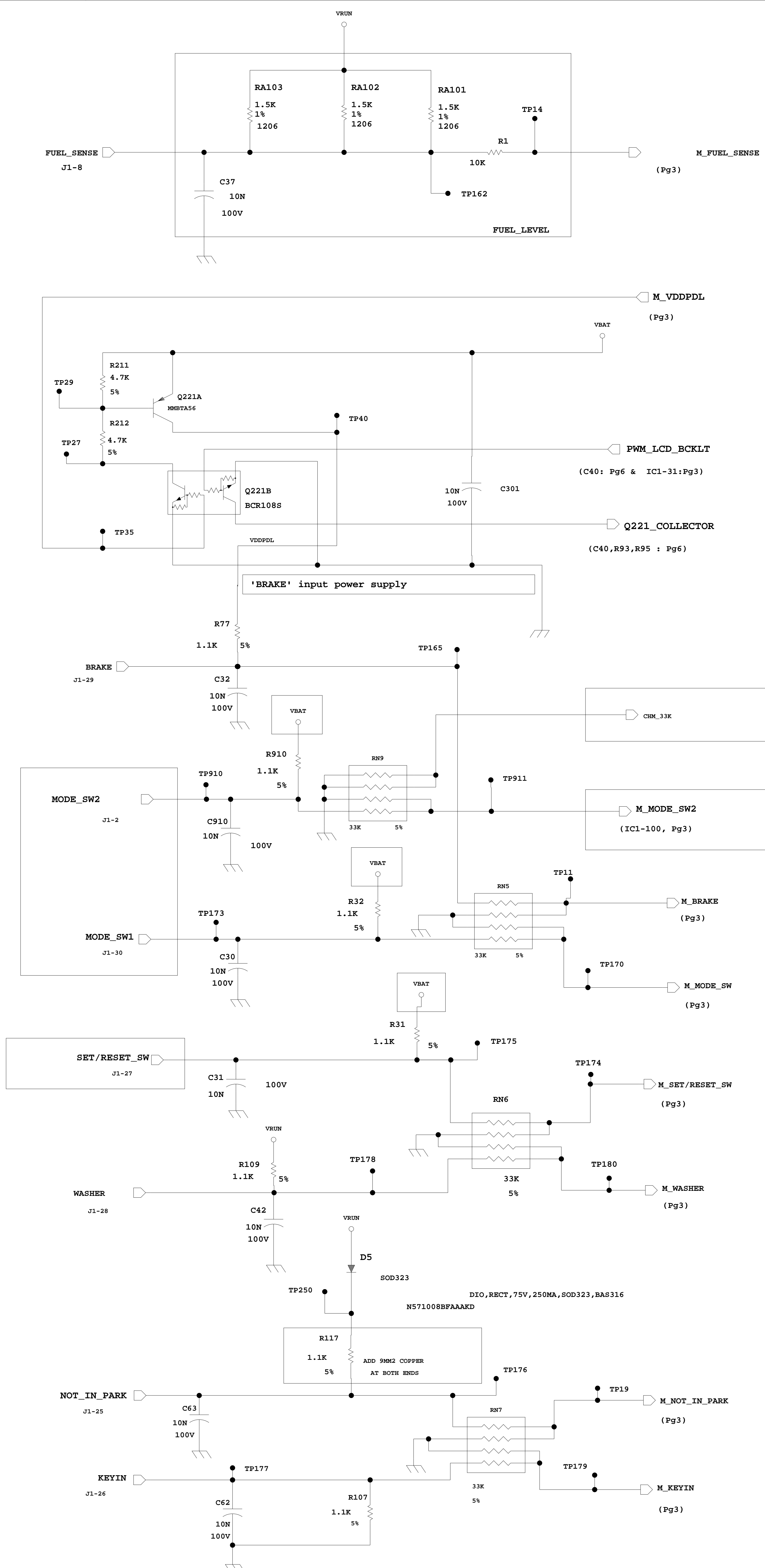
C307 MID (12146)
 030407 - M_MENU_SW2 input added (IC1-100)
 - stepper motor TP's deleted
 - R802 replaced by RN9/4 (CHM_33K)
 030617 - TP153, TP802 deleted (duplicated)
 050720 - C10,C14,C34 changed to 10nF
 C8,C47,C50 changed to 47nF
 C5 Depopulated

PARTS LIST

QTY	REF	DESCRIPTION	UNIT
1	C214	1PP MID (11250)	
1	Y1	crystal 8.00MHz NX8045GB, 20ppm (NDK)	
1	R123	1k5	
1	R401	1k	
1	R403	1k	
1	R56	470 ohms	
1	C44	47 nF	
1	C45	470 nF	
1	C50	47 nF	
1	C55	470 ohms	
1	R701	10k	
1	R702	390 ohms	
1	R703	390 ohms	
1	R704	390 ohms	
1	R705	390 ohms	
1	R706	390 ohms	
1	R707	390 ohms	
1	R708	390 ohms	
1	R709	390 ohms	
1	R710	390 ohms	
1	R711	390 ohms	
1	R712	390 ohms	
1	R713	390 ohms	
1	R714	390 ohms	
1	R715	390 ohms	
1	R716	390 ohms	
1	R717	390 ohms	
1	R718	390 ohms	
1	R719	390 ohms	
1	R720	390 ohms	
1	R721	390 ohms	
1	R722	390 ohms	
1	R723	390 ohms	
1	R724	390 ohms	
1	R725	390 ohms	
1	R726	390 ohms	
1	R727	390 ohms	
1	R728	390 ohms	
1	R729	390 ohms	
1	R730	390 ohms	
1	R731	390 ohms	
1	R732	390 ohms	
1	R733	390 ohms	
1	R734	390 ohms	
1	R735	390 ohms	
1	R736	390 ohms	
1	R737	390 ohms	
1	R738	390 ohms	
1	R739	390 ohms	
1	R740	390 ohms	
1	R741	390 ohms	
1	R742	390 ohms	
1	R743	390 ohms	
1	R744	390 ohms	
1	R745	390 ohms	
1	R746	390 ohms	
1	R747	390 ohms	
1	R748	390 ohms	
1	R749	390 ohms	
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1	R795	390 ohms	
1	R796	390 ohms	
1	R797	390 ohms	
1	R798	390 ohms	
1	R799	390 ohms	
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1	R839	10k	
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1	R842	10k	
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1	R860	10k	
1	R861	10k	
1	R862	10k	
1	R863	10k	
1	R864	10k	
1	R865	10k	
1	R866	10k	
1	R867	10k	
1	R868	10k	
1	R869	10k	
1	R87		



the 9mm2 copper pads needed at res R:77,107,109,117,301

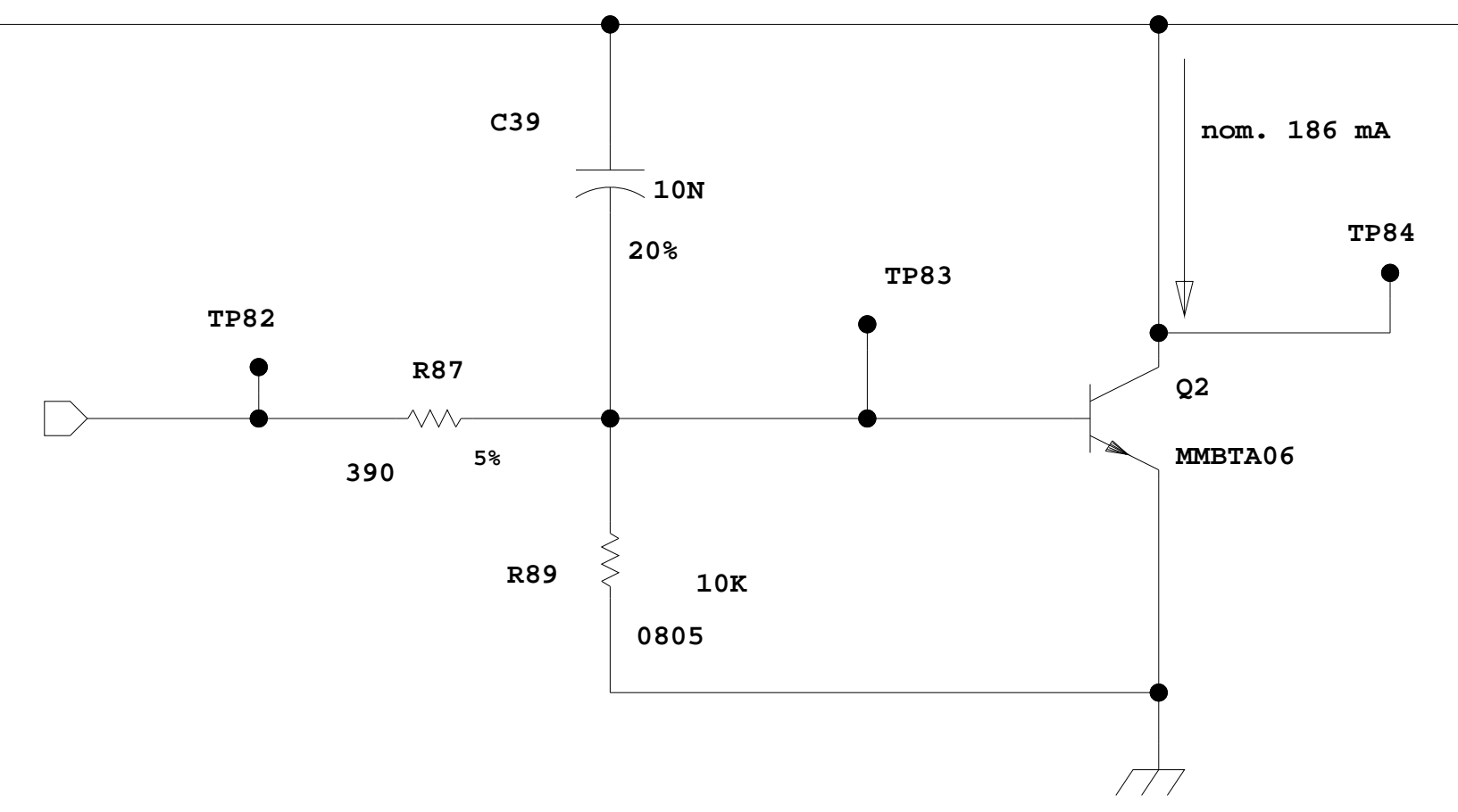
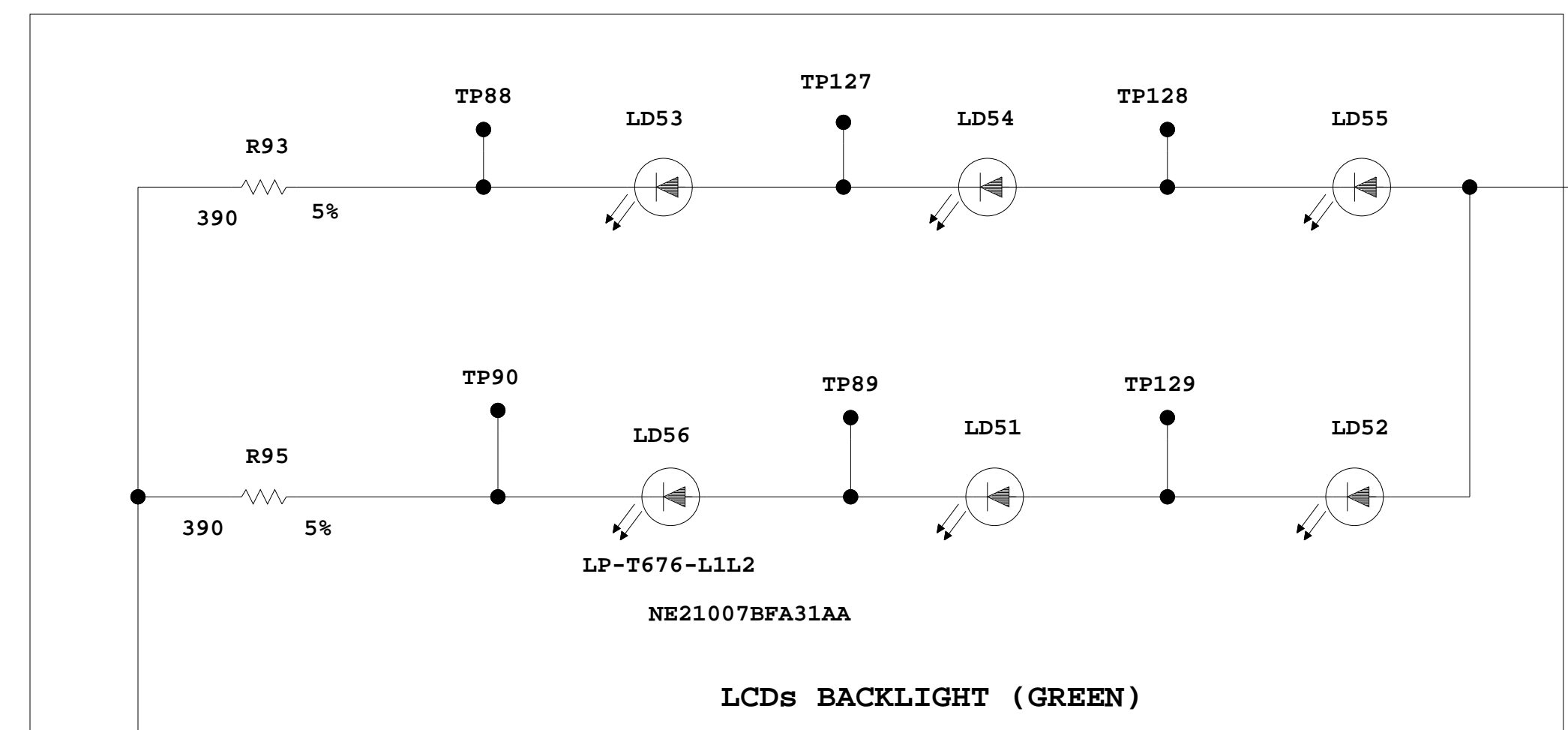
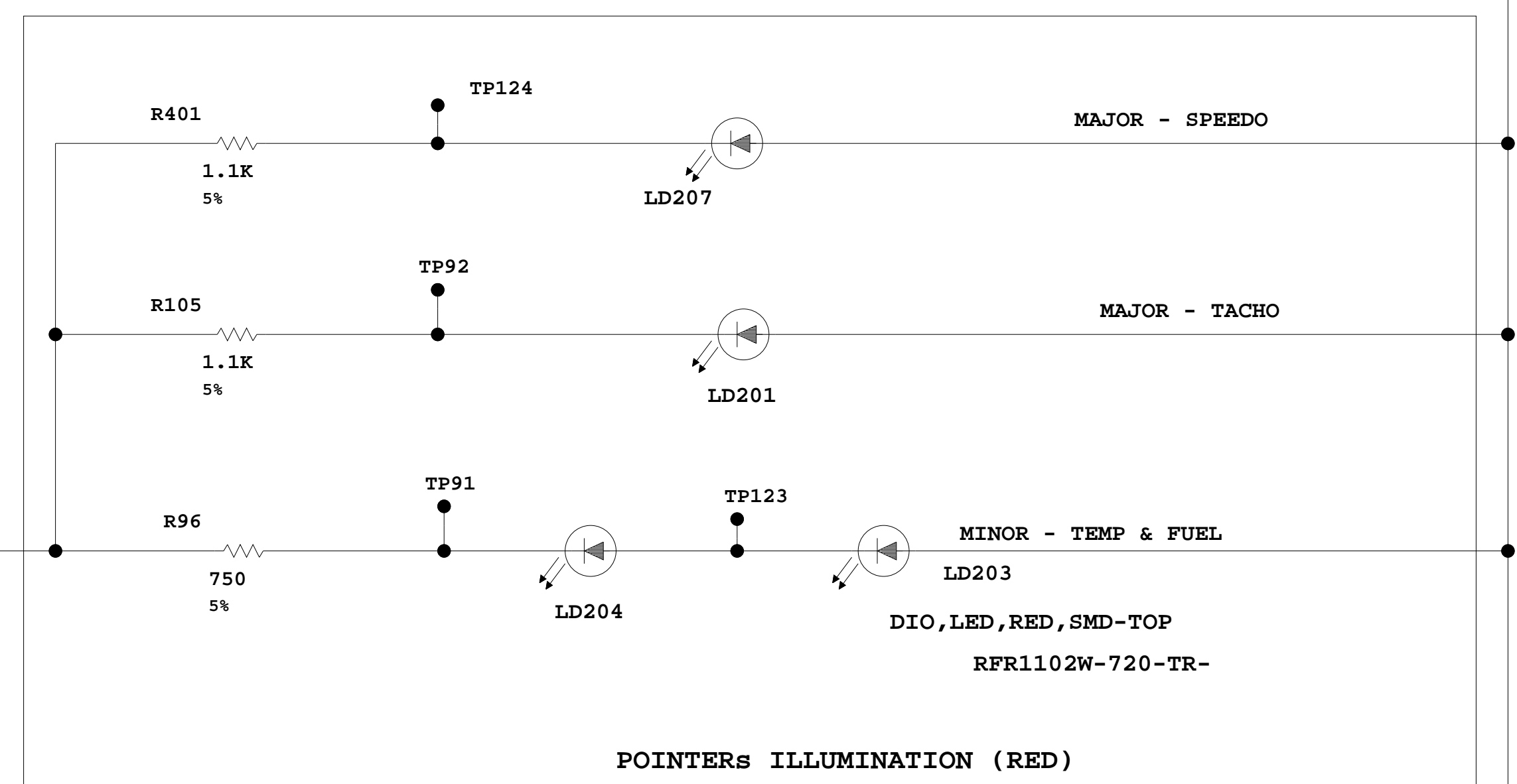
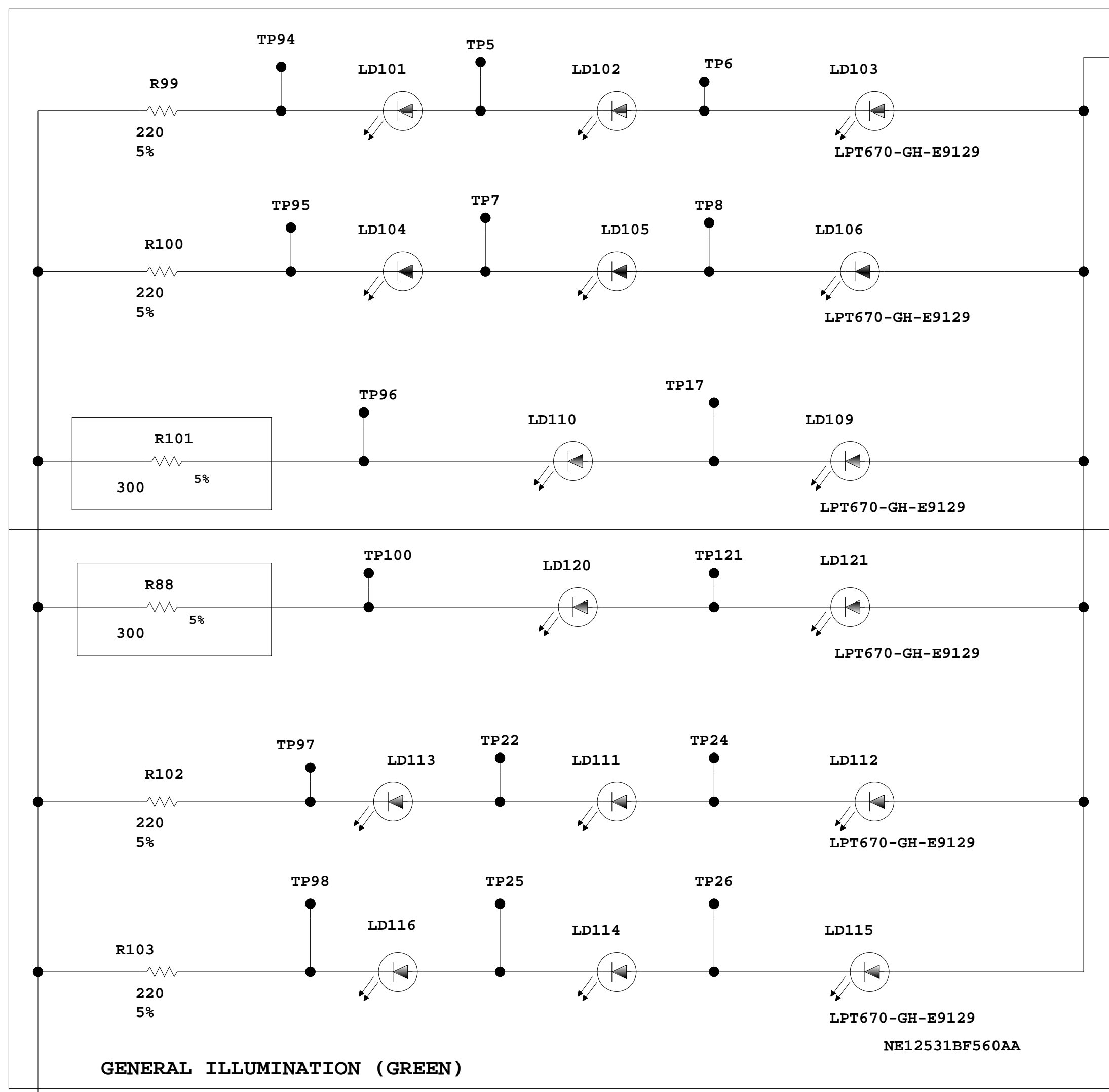
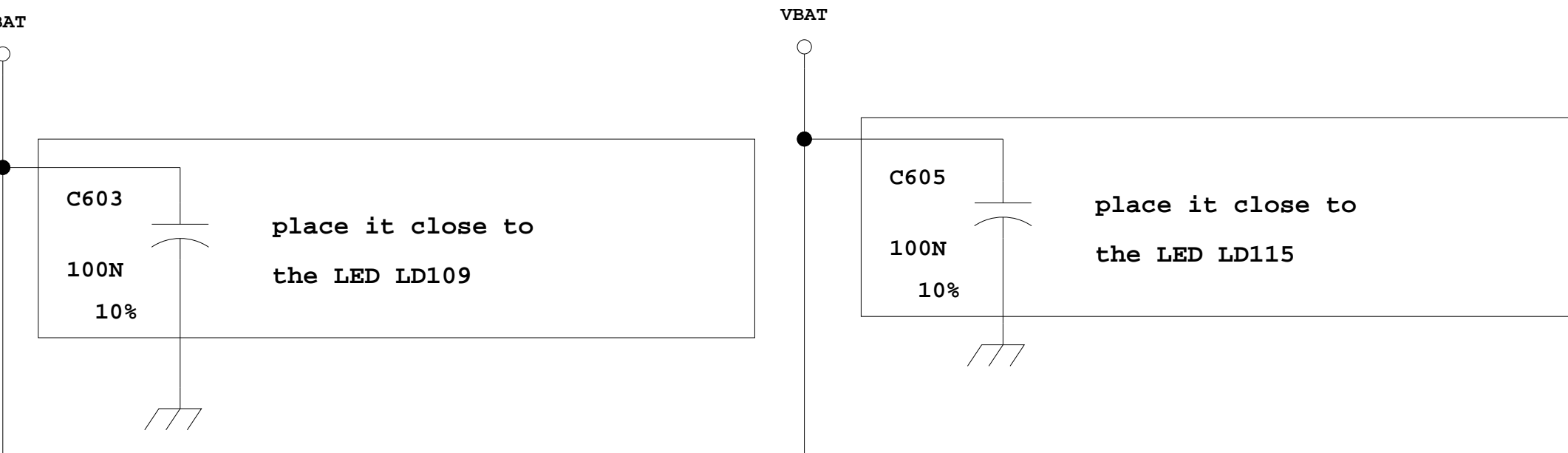


NO.		MS-XXXX-3458-XX		DATE		REV		REVISIONS		CU	MAN	CK	APP
C214 1PP MID (11250)													
020510													
- R31 & R32 pulled up to VBAT,													
- D5 diode added btw. R117 and VRUN.													
- R117, R77, R79, R107, R109, R301,													
R31, R32 changed to 1k1 (were 1k3)													
020611													
- D5 changed to 'BAS316'.													
C214 1PP MID (11409)													
020724													
- no changes made.													
C214 1PP MID (11588)													
021011													
- R801 added (RESET line)													
C214 C307 MID (11665)													
021025													
021127													
- no changes made													
- IGN circuit (RN2) changed													
C307 MID (12146)													
030407													
- MODE_SW2 switch input added,													
R910, C910, RN9, TP910, TP911 added													
- C602, R211, R212, TP29 deleted													
- net CHM_33K added (replaces R802)													
030616													
* Q221A & Q221B put back													
as per 'PWB11665'													
PART MUST COMPLY WITH SPECIFICATION MS-899999-01 TO HELP SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT													
Visteon PRODUCT ENGINEERING													
<input type="checkbox"/> COMPUTER <input type="checkbox"/> MANUAL <input checked="" type="checkbox"/> "E" SIZE													
CU COLUMN - GRAPHIC DATA LEVEL ORIGINAL WHEN RED													
DO NOT SCALE ABOVE SCALE FOR REFERENCE ONLY													
REF: C307_MID													
DRAWN BY		DATE		CHECKED		SCALE		APPROVED					
V. POLESKIC		030407		NONE		NONE		V. POLESKIC					
UNLESS OTHERWISE SPECIFIED:													
CONVERSIONS ARE IN:													
<input type="checkbox"/> INCHES <input type="checkbox"/> MILLIMETERS 3RD ANGLE PROJECTION													
<input type="checkbox"/> MACHINED DIM. +/- <input type="checkbox"/> ANGULAR DIM. +/-													
MATERIAL APP: C307 MID DATE: 030407													
NAME: SKETCH - WIRING DIAGRAM PWB12146.1													
NO.: MS-4M5F-3845-BJ PLANT CODE: CADIZ													

NOTE: - LEDS TO USE ALTERNATE WITH EITHER
 16MM2 COPPER AT CATHODE (OSRAM LED'S)
 9MM2 COPPER AT BOTH ENDS (STANLEY LED'S)

- Q221 to be placed close to
- R93, R95, R96, R105, R401:
- R88, R99, R100, R101, R102, R103 :

- R77 and R79 ('input' circuit).
- 9 mm2 cooper needed at both ends.
- 16 mm2 cooper needed at both ends.



PWM_GEN_ILUM
 PT6 (111)

Q221_COLLECTOR
 (Pg4, Q221B)
 PWM0 (IC1-31)

NO. MS-XXXX-3458-XX						
DATE	LET	REVISIONS	CG	MAN	CK	APP
021014		C214 1PP MID (11588)				
		- no changes made				
021112		C214 C307 MID (11665)				
		- the res R96 changed to 750 ohm (was 560 ohm)				
021118		- the res R105,R401 changed to 1k1 (were 680 ohm)				
021206		- C40 taken off, - TP81 relocated to Pg4				
030520		C307 MID (12146)				
		- R88A & R101A deleted, - R88 & R101 change to 300 ohm (were of 390 ohm)				
030530		* thegreen LEDs p/n=NE11002BF.. changed to p/n=NE21007BF..				

PART MUST COMPLY WITH SPECIFICATION WSS-M99F9999-A1 TO HELP SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT

Visteon PRODUCT ENGINEERING

COMPUTER MANUAL "D" SIZE

CG COLUMN = GRAPHIC DATA LEVEL ORIGINAL WHEN RED

ENGLISH 1 2 3 4 5 6
 METRIC 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

DO NOT SCALE ABOVE SCALE FOR REFERENCE ONLY

REF	\C307_MID				
DRAWN BY	DATE	CHECKED	SCALE	APPROVED	
V. POLEKSIC	030520		NONE		030520

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN
 INCHES MILLIMETERS
 MACHINED DIM. +/-
 ANGULAR DIM. +/-

3RD ANGLE PROJECTION
 STAMPED DIM. +/-

MATERIAL	APP
	C307 MID
NAME	DATE
SKETCH - WIRING DIAGRAM	030520
FWB12146.1	

NO. MS-4M5F-3845-BJ