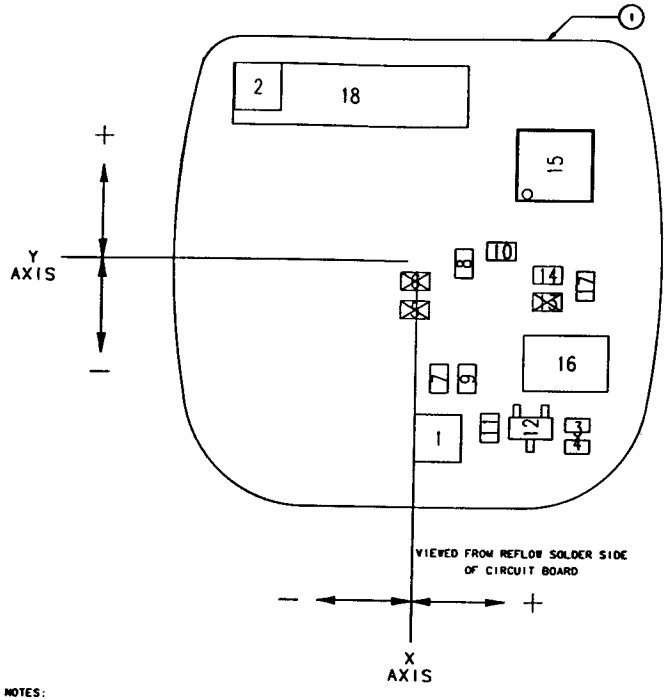
DELPHI DELCO ELECTRONICS SYSTEMS
DIVISION OF DELPHI AUTOMOTIVE



NOTES:

1. SECURE SMC'S TO THE REFLOW SOLDER SIDE OF THE CIRCUIT BOARD USING SOLDER PASTE ITEM 2 PER PROCESS SPECIFICATION.
2. DEGREES OF ROTATION: 0, 90, 180 & 270 REFERS TO DEGREES ROTATION OF PIN #1 OF IC,COLLECTOR OF TRANSISTOR, CATHODE (-) OF DIODE, ANODE (+) OF CAPACITOR. 0 EQUALS 3 O'CLOCK, 90 EQUALS 12 O'CLOCK, ETC. NON-POLARIZED COMPONENTS ARE SPECIFIED AS 0 180 FOR HORIZONTAL; 90 OR 270 FOR VERTICAL.
3. THIS ASSEMBLY IS ELECTROSTATIC DISCHARGE (ESD) SENSITIVE.
4. COMPONENTS THAT HAVE BEEN CROSSED OUT SIGNIFY "NOT INSTALLED" COMPONENTS.
5. COMPONENTS TEXT ON SHEET 2 QTY "0" REFLECTS "NOT INSTALLED" COMPONENTS.
6. THE FOLLOWING ARE LOCATED IN MIDAS: CDF UNDER THE SCHMATIC DIAGRAM 12201975 AND THE CHIP X-YS (RORVIRA) ARE LOCATED UNDER THE ASSEMBLY NUMBER.
7. THE ORIGIN OF SMT COMPONENTS AND FLIP CHIP COMPONENTS WILL BE THE CENTER OF THE PHYSICAL BODY.

THIS ASSEMBLY SHALL CONSIST OF THE FOLLOWING:
REF=REFERENCE REQ=REF. OPTIONAL OPT=OPTIONAL

ITEM	PART NO	DESCRIPTION	QTY
1	12201969	CIR BD	1
2	M-10378-48	SOLDER PASTE	R
3	M-10378-26	SOLDER PASTE	0
4	M-09344-19	SOLDER	0
	12201975	SCHEMATIC DIAGRAM	REF

DATE	SYM	REVISION RECORD	AUTH	DR	AP
15FEB	A	RELEASE PROD	144049	TR	RS
24MAR	B	CHIP 11 C6 WAS 2.7PF 16211827.	145325	TR	CK
11MAY	C	CHIP 3-R5 WAS 470 1808781 CHIP 4-C4 WAS 1.0PF 16211818; CHIP 7-C7 WAS 5.1PF 16211826; CHIP 11-C6 WAS 2.4PF 16217220. C4 & R5 NOW INSTALLED.	148605	TR	CK

DELPHI Automotive Systems

GEOMETRIC DRAWING SYMBOLS

METRIC

THIRD ANGLE PROJECTION

15FEB	T B BAINES
16263080	R. STREETER
	C. HELL
N/A	T. OTTO
N/A	N/A
N/A	N/A
N/A	N/A
	N/A
	CIR BD-S/A SM-RSS
A1	12201967

SUBSTANCE OF CONCERN AND RECYCLED CONTENT PER DELPHI-A 10040001

MENTOR COMPUTER GRAPHICS

MANUAL REVISIONS NOT PERMITTED ON THIS DRAWING

KEY PRODUCT CHARACTERISTICS

SAFETY/ COMPLIANCE	TOTAL S/C	FIT/ FUNCTION	TOTAL F/F
TOTAL ON DRAWING			0
LAST NUMBER USED			0

FILENAME	DESCRIPTION
rorV3Rc	TOP CHIP XY DATA

SH 1 OF 2