



B.R. CAT. NO. 15/4074 (CIRCUIT BOARD)
 B.R. CAT. NO. 15/4075 (TRANSFORMER)

ARRANGEMENT - DRWG C-12 8447
 COMPONENT KEY - DRWG C-13-8453

CIRCUIT BOARD SUPPLIED BY - B.S.B. (AUTEC) LTD. MARKET DRAYTON, SALOP.
 C.M.V.E.E. (BRB) DESIGN.

ISSUE LETTER	ALTERATION	D.M.S. INITIALS	DATE
VOLTAGE LEVEL SWITCH D.M.V. STARTER MOTOR ISOLATION RELAY (SCHEMATIC DIAGRAM)			
CHIEF MECHANICAL & ELECTRICAL ENGINEER BRITISH RAILWAYS BOARD DERBY			
Scale			
Drawing No.	C-A3-8452		
Drawn	Traced	Check'd	Date
CTW		EPS	3-1-77

COMPONENT	VALUE	POWER	TYPE	MAKE
RESISTOR R1	200Ω	6W	VITREOUS WIRE-WOUND	
" R2	2.7KΩ	1W	METAL OXIDE	
" R3,R7,R8	150KΩ	1/2W	"	
" R4	180KΩ	1/2W	"	
" R5	3.9KΩ	1/2W	"	
" R6	10KΩ	1/2W	"	
" R9	560KΩ	1/2W	"	
" R10	1KΩ	1/2W	"	
" R11	2KΩ	1/2W	"	
POTENTIOMETER RPI	500KΩ	1/4W	Carbon Track P.C. Type	Plessey Interconnect (Type MP)
TRANSISTOR TR1		(N.P.N.)	BFY51	
ZENER DIODE ZD1+ZD2	5.6V	1W		
ZENER DIODE ZD3+ZD4	9V	250mW		
ZENER DIODE ZD5	5.6V	0.75W		
ZENER DIODE ZD6+ZD7	24V	1W		
DIODE D1 + D2	(1000V PIV)	0.5A		
CAPACITOR C1	8μF	64V DC	ELECTROLYTIC	
" C2+C3	0.47μF	250V		
TRANSFORMER TRFR	1 - 1.1 ratio	250mVA	ISOLATING	BR. CAT NO 15/4075 GOODYEAR TRANSFORMERS
I.C. AMPLIFIER A			741	