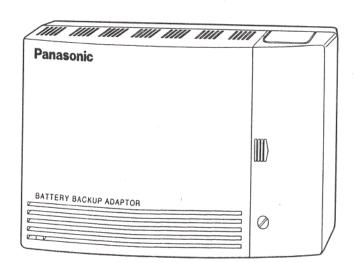
Service Man ORDER NO.KMS9704235C3

Battery Backup Adaptor

โปรเฟสชั่นแนล พี. เอ. บี. เอ็กซ์. KX-A46DX 30/270 ซอยนวมินทร์ 80 แขวงนวลจันทร์ เขตบึ้งกุ่ม กรุงเทพฯ 10230 Hotline: 084-920-5065 Tel: 02-519-1718, 02-107-3057 $E.Mail: info@pfpbx.com\ , jirasak_service@hotmail.com\\$





⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It dose not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or

Panasonic

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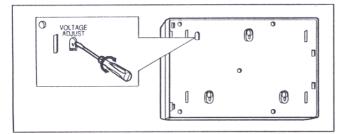
Installation

Installation Location

- Should not be exposed to direct sunlight.
- Keep the unit and car batteries away from heating appliances andfire.
- Place car batteries in a well ventilated place.

Precaution for Power Supply:

Check the voltage selector to confirm that it is set to your household AC voltage. (The voltage selector is set to 240 V at the factory.) If not, set the voltage selector on the back of the main unit to the correct position with a screwdriver.

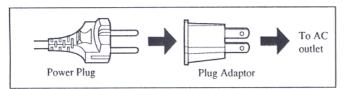


Starting the System:

Plug the AC Cord into the Battery Adaptor and an AC outlet.

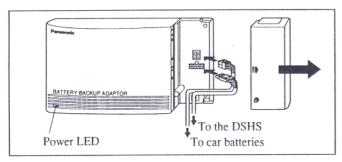
Note:

The Plug Adaptor is to be used if the Power Plug will not fit your socket. Assemble as shown in the illustration below, using the plug which fits your socket. In this case, be sure to connect the Ground Wire to the Ground Terminal on the Battery Adaptor because the ground line in the AC Cord cannot be used. (See the illustration 2) for connection.)



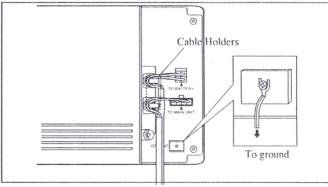
Connection

(1) Slide the cover to the right. Connect the Battery Cord and the To DSHS Cord to the Battery Adaptor as shown.

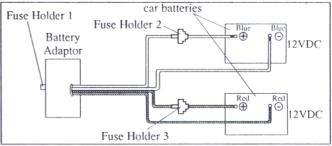


Then slide in the cover.

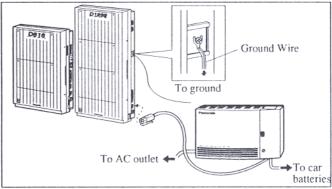
Wind and fix the Battery Cord and the To DSHS Cord round the Cable Holders.



- (3) Assemble the Battery Cord and two car batteries (12VDC each) as shown.
- Check the polarities of batteries and wires.
- Be careful not to short the batteries and wires



(4) Insert the Plug of the Battery Adaptor into the Battery Adaptor Connector on the DSHS unit. Connect the Ground Wire to the Ground Terminal on the DSHS unit.



(5) Insert the AC plug of the Battery Adaptor into the AC outlet. (6) In case of a power failure, the batteries automatically

maintain power to the DSHS unit.

- While the Batteries are charged, the Power LED lights red.
- While backup power is full, the Power LED lights green.
- If the Power LED does not go on, check the DSHS, Battery Adaptor, car batteries and wiring connection.
- After connecting the Battery Adaptor, keep the AC plug of the Battery Adaptor in the AC outlet unless the DSHS is turned OFF. (Batteries will discharge.)
- Power Fuses (Inside the Fuse Holders):

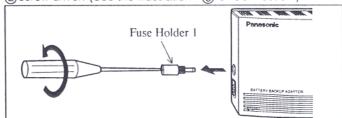
 - Inside Fuse Holder 1 (1A, 250 V) \times 1 Inside Fuse Holder 2, 3 (8A, 32 V) \times 2

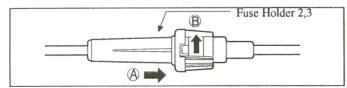
If the Power LED light goes off during a power failure, the Power Fuses may have been blown.

To change the Fuses, pull out the AC Cord.

(1) Turn Fuse Holder 1 in the direction of the arrow with a

②screw driver. (See the illustration ③for Connection.)





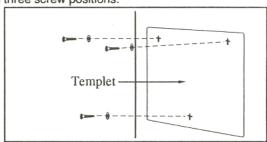
- Fasten the Fuse Holders after replacing the Fuses with new ones. Then insert the AC plug of the Battery Adaptor into the AC outlet.
- Back-up Duration: depends on the amp/hour of the batteries used.
 - e.g.When using two 12VDC 20 amp/hour, maintenance-free, car batteries, the power is maintained for about three hours.

Note:

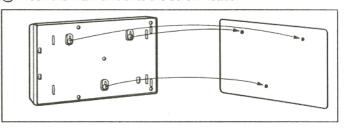
Some telephones connected to the DSHS unit with a long cord may not be activated. The long cord may decrease the voltage from the Battery Adaptor.

Wall Mounting

 Copy the templet (this page) and place it on the wall to mark the three screw positions.

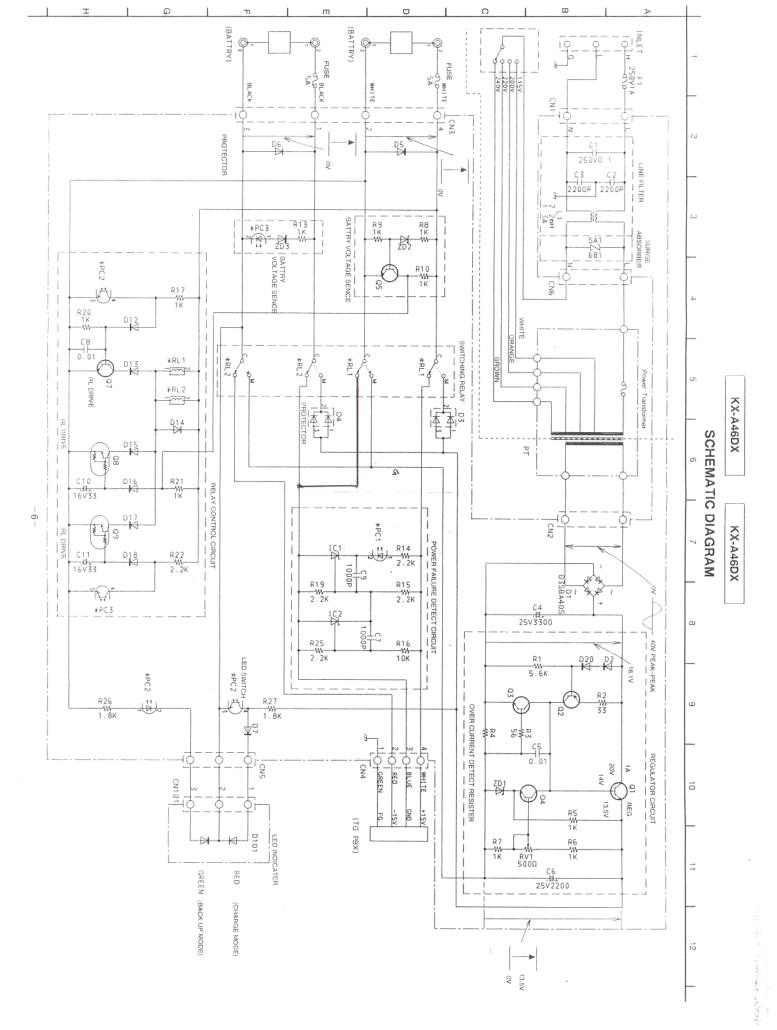


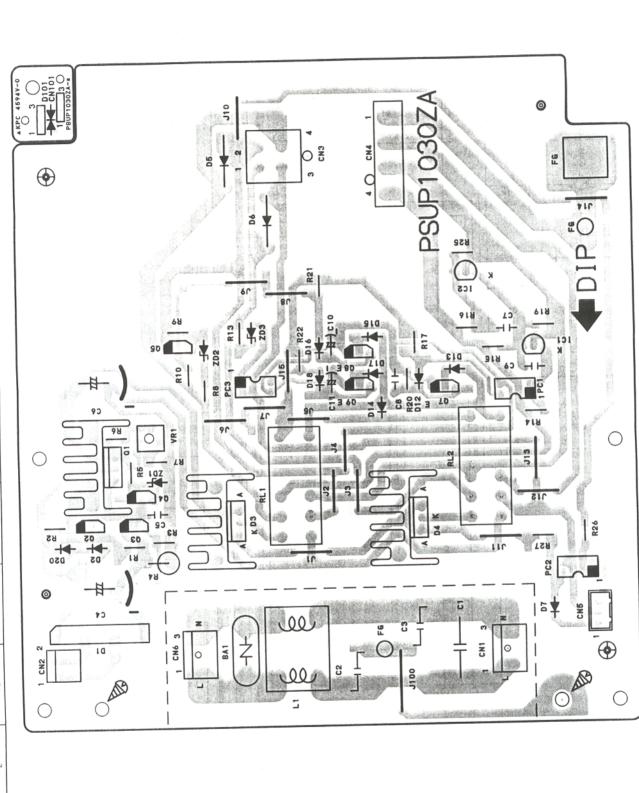
- 2 Istall the three screws and washers (included) into the wall.
- 3 Hook the main unit onto the screw heads.



WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.



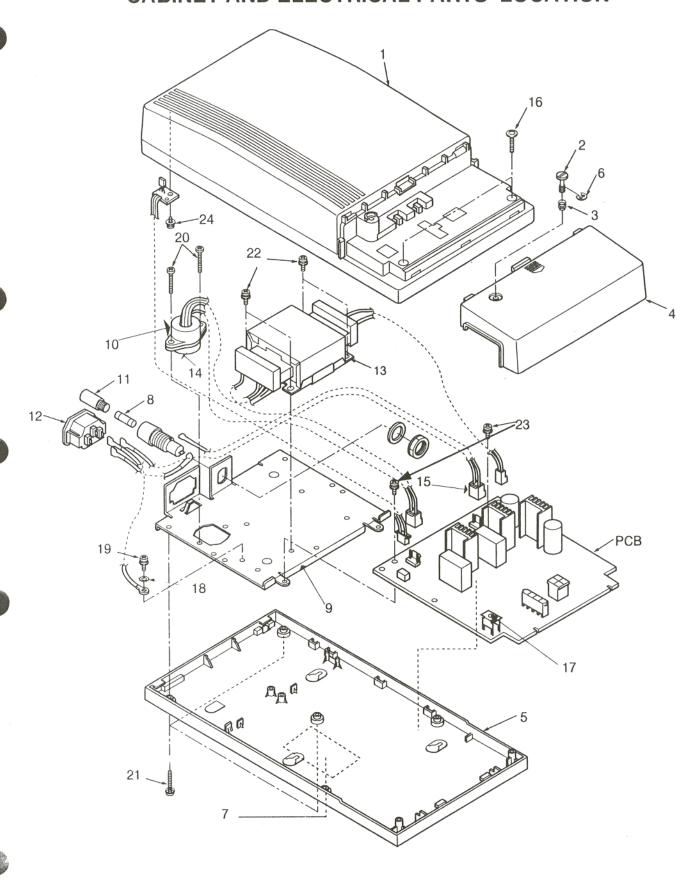


KX-A46DX

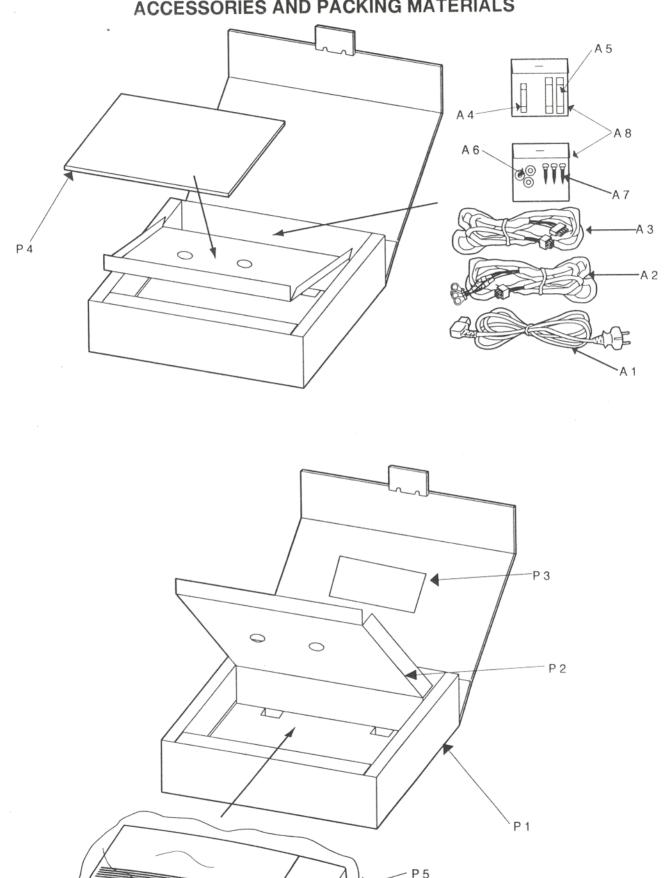
PRINTED CIRCUIT BOARD
6 1 7 1

KX-A46DX

CABINET AND ELECTRICAL PARTS LOCATION



ACCESSORIES AND PACKING MATERIALS



This replacement parts list is for KX-A46DX version Refer to the simplified manual (cover) for other areas.

REPLACEMENT PARTS LIST Model KX-A46DX Note: 1. The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available. Important safety notice. Components identified by a $_{\textstyle \bigwedge}$ $\,$ mark special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts. 2. The S mark indicates service standard parts and may differ from production parts. 3. RESISTORS & CAPACITORS Unless otherwise specified. All resistors are in ohms (Ω) k=1000 Ω , M=1000k Ω All capacitors are in MICRO FARADS(μF) P= $\mu \mu F$ *Type &Wattage of Resistor Туре ERC:Solid ERX:Metal Film PQRD:Carbon ERD:Carbon ERG:Metal Oxide PQRQ:Fuse PQ4R:Chip ERF:Wire Wound ERO:Metal Film Wattage 10,16,18:1/8W 14,25,S2:1/4W 12,50,S1:1/2W 1:1W *Type & Voltage of Capacitor ECFD:Semi-Conductor ECQS:Styrol ECCD,ECKD,PQCBC,PQVP : Ceramic ECQM.ECQV.ECQE.ECQU,ECQB: Polyester

ECQS:S	Styrol	ECQM,ECQV,ECQE,ECQU,ECQB : Polyestell				1142	20/1000		
PQCBX	,ECUV:Chip	ECEA,ECSZ,ECOS : Electrolytic				Q 3	2SC1740S		
ECMS:	Mica	ECQP : Polyproplylene				Q4	2SC1740S		
Voltag	je					Q 5	2SC1740S		
ECQ Type ECQG		ECSZ Type Others				Q 7	2SC1740S		
	ECQV Type					Q 8	PQVTDTC144ES		
1H: 50V 05: 50V		OF:3.15V			35V	Q 9	PQVTDTC144ES		
2A:100V 1:100V		1A:10V 1V:35V	1A :10V	50,1H:5		11			
2E:250	2E:250V 2:200V		1C :16V		3V		DOVIDDOODA 400		
2H:500	2H:500V		1E,25:25V	2A :1	V00	D 1	PQVDD3SBA40S		
						D 2	188131		
						D 3	PQVDD10SC4M		
Ref. No.	Ref. No. Part No.		Part Name & Description Pc			D 4	PQVDD10SC4M		
						D 5	PQVDDS3V60		
	C	ABINET & ELE	ECTRICAL PAR	TS		D 6	PQVDDS3V60		
						D 7	188131		
1	PSKM1017X1 CABINET BODY				1 1	D12	188131		
2	PQHD10011Z	,	SCF (IC's)			D13	1SS131		
3	PQUS141Z		SPRING			D14	1SS131		
4	PQKV10007Z1				1	D15	1SS131		
5	PSKF10026H1					D16			
6	XUC3VW RETAINING RING				1	D17	1		
7	PSGT1060Z		NAME PLATE			D18	1SS131		
8	XBA2C10TB0L		FUSE			D20	1SS131		
9	PSMH1040Z		ANGLE .			11			
10	RUV184Z	1	COVER,SWITCH			D101	LN142WP38		
11	PQJV5Z	HOLDER			1				
12	PQJP3A3Z				1	ZD1	MA4051		
13	PQLT5Z9X3A	1	RANSFORMER	Å	1	ZD2	MA4091		
14	PQSR4A03Z		ROTARY SWITCH			ZD3	MA4082		
15	PSJS02R25Z		CONNECTOR, 2P						
16	XTW3+S14P	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TAPPING SCREW,STEEL			11.	EDDOOT ISSO		
17	XSN4D8FN		SMALL SCREW,STEEL			R 1	ERDS2TJ562		
18	XWC4B		WASHER			R 2	ERDS2TJ330		
19	XYN4+C8	4+C8 SCREW WITH WASHER,STEEL			1	R 3	ERDS2TJ560		
						- 9			

110101	10 1110 0				
Ref. N	lo.	Part No.	Value, Part Name & Description		Pcs
20	- X	YC3+CF10	SCREW WITH WASHER, STEEL	T	2
21		YC4+CF12	SCREW WITH WASHER,STEEL		3
22		YC4+FF8	SCREW WITH WASHER, STEEL		4
23	1	YN3+F6	SCREW WITH WASHER,STEEL		2
24	1.	TN3+10C	SCREW WITH WASHER, STEEL		1
24			ND PACKING MATERIALS		
		OCEOSOTIES AI	TO THORNING TOWNER TO THE		
Р		SPK1050Z	GIFT BOX		1
P	_	QPN10427Z	CUSHION		
P	- 1	SQA1060Z	INDICATION PLATE-LABEL		1
P		SQX1031Z	LEAFLET		1
Р	5 X	ZB26X45A01	BAG,POLYETHYLENE		1
			(FOR SET)		
A	1	QJA223X	Power Cord		1
A		JP16Z	PLUG	Δ	1
A		SJS04R23Z	CONNECTOR	- 1	1
A	4 X	BA2C10TB0L	FUSE	. 1	1
A	- 1	QBAFF80NMX	FUSE	1	2
A	6 X	WG35FY	WASHER	Δ	3
A	7 P	QHE5004Z	TAPPING SCREW,STEEL		3
Α	8 X	ZB05X08A03	BAG,POLYETHYLENE	-	2
			(FOR ACCESSO	RIES	
Α	.9 P	QBAFF80NMX	FUSE		2
			MAIN BOARD PARTS		
PCB1	ı IP	SWPA46DX	PC BOARD W/COMPONENT	Δ	1
	- 1		(IC's)		
IC1	P	QVIL5431	ic		1
IC2		QVIL5431	IC		1
102	- 1	Q 1 1110 10 1	(TRANSISTORS)		
Q 1	2	SD1897	TRANSISTOR(SI)		1
Q 2	- 1	SA933	TRANSISTOR(SI)		1
Q3	- 1	SC1740S	TRANSISTOR(SI)		1
Q 4		SC1740S	TRANSISTOR(SI)		1
Q 5		SC1740S	TRANSISTOR(SI)		1
Q 7	- 1	SC1740S	TRANSISTOR(SI)		1
0.8		PQVTDTC144ES	TRANSISTOR(SI)		1
Q 9	- 1	PQVTDTC144ES	TRANSISTOR(SI)	1	
Q 9	ľ	QVIDICI44E3	THANGISTORION)		·
			(DIODES)		
D 1	F	PQVDD3SBA40S	DIODE(SI)		1
D 2	1	ISS131	DIODE(SI)		1
D 3		PQVDD10SC4M	DIODE(SI)		1 1
D 4	- 1	PQVDD10SC4M	DIODE(SI)		1
D 5	1	PQVDDS3V60	DIODE(SI)		1
D 6	1	PQVDDS3V60	DIODE(SI)		1
D 7	- 1	1SS131	DIODE(SI)		1
D12	1	1SS131	DIODE(SI)		1
D13		1SS131	DIODE(SI)		1
D14		1SS131	DIODE(SI)		1
D15		1SS131	DIODE(SI)		1
D16	- 1	1SS131	DIODE(SI)		1
D17		188131	DIODE(SI)		1
D18	- 1	188131	DIODE(SI)		1
1	- 1	1SS131	DIODE(SI)		1
D20		LN142WP38	DIODE(SI)		1
D20	1		1		
D10		MA4051	DIODE(SI)		1
D10 ZD1		MA4051 MA4091	DIODE(SI)		1 1
D10		MA4051 MA4091 MA4082	DIODE(SI) DIODE(SI) DIODE(SI)		1
D10 ZD1 ZD2		MA4091	DIODE(SI)		1
D10 ZD1 ZD2		MA4091	DIODE(SI)		1
D10 ZD1 ZD2 ZD3	2	MA4091 MA4082	DIODE(SI) DIODE(SI) (RESISTORS)		1 1

This replacement parts list is for KX-A46DXversion only.

Refer to the simplified manual (cover) for other areas.

This	replacem	ent parts	s list is for KX-A46DXve	rsio	n on
Ref. No.	P	art No.	Value, Part Name & Description	T	Pcs
R 4	ERX3S.	JR47	0.47	$\neg \uparrow$	1
R 5	ERDS2	- 1	1K		1
R 6	ERDS2		1K		1
R 7	ERDS2		1K		1
R 8	ERDS2		1K		1
R 9	ERDS2	ГJ102	1K		1
R10	ERDS2		1K		1
R13	ERDS2		1K	- 1	1
R14	ERDS2	- 1	2.2K		1
R15	ERDS2	- 1	2.2K		1
R16	ERDS2	- 1	12K		1
R17	ERDS2	- 1	1K		1
R19	ERDS2	「J222	2.2K		1
R20	ERDS2	ГЈ471	470		1
R21	ERDS2	fJ102	1K		1
R22	ERDS2	ſJ222	2.2K		1
R25	ERDS2	ſJ222	2.2K		1
R26	ERDS2	ſJ182	1.8K		1
R27	ERDS2	ľJ182	1.8K		1
			(CAPACITORS)		
C 1	ECQU2	A103MX	0.01	4	1
C 2	ECKDK	D222MF	0.0022	s	1
C 3	ECKDK	D222MF	0.0022	s	1
C 4	ECEA18	GE222	2200		1
C 5	ECQM1	H103JV	0.01		1
C 6	ECEA18	GE222	2200		1
C 7	ECQM1	H102JV	0.001		1
C 8	ECQM1	H103JV	0.01		1
C 9	ECQM1	H102JV	0.001		1
C10	ECEA16	EKA330	33		1
C11	ECEA18	EKA330	33		1
		1	(CONNECTORS)		
CN1	PQJP20	98Z	CONNECTOR		1
CN2	PQJP2E)30Z	CONNECTOR		1
CN3	PSJP04	A19Z	CONNECTOR		1
CN4	PQJP04	A30Z	CONNECTOR		1
CN6	PQJP20	98Z	CONNECTOR		1
			(COIL)		
L1	ELF18D	290	COIL	Δ	1
			(PHOTO ELECTRIC TRANSDUCERS)	
PC1	PQVIPC	817CD	PHOTO ELECTRIC TRANSDUCER		1
PC2	PQVIPC	817CD	PHOTO ELECTRIC TRANSDUCER		1
PC3	PQVIPC	817CD	PHOTO ELECTRIC TRANSDUCER		1
		- 1	(RELAYS)		
RL1	PQSL43	Z	RELAY		1
RL2	PQSL43	Z	RELAY		1
			(VARIABLE RESISTOR)		
RV1	EVNDX	AA03B52	VARIABLE RESISTOR		1