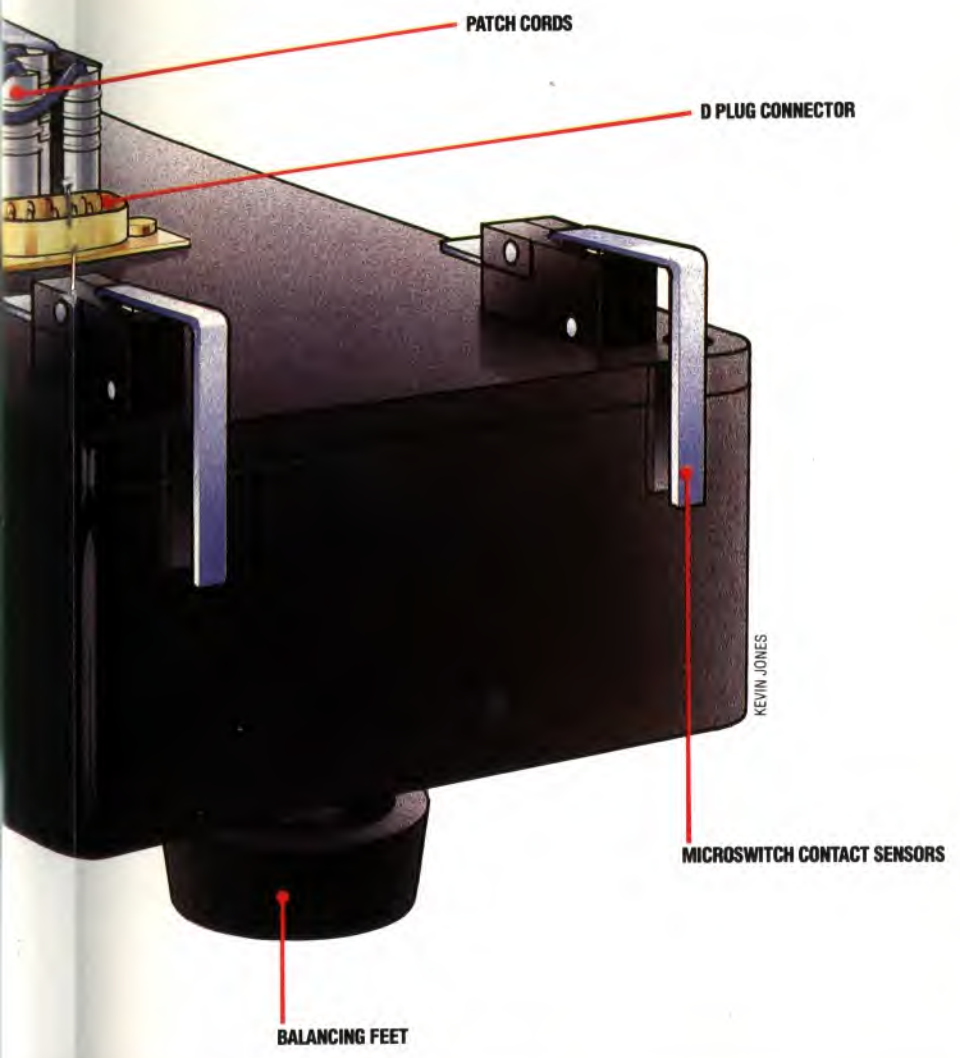
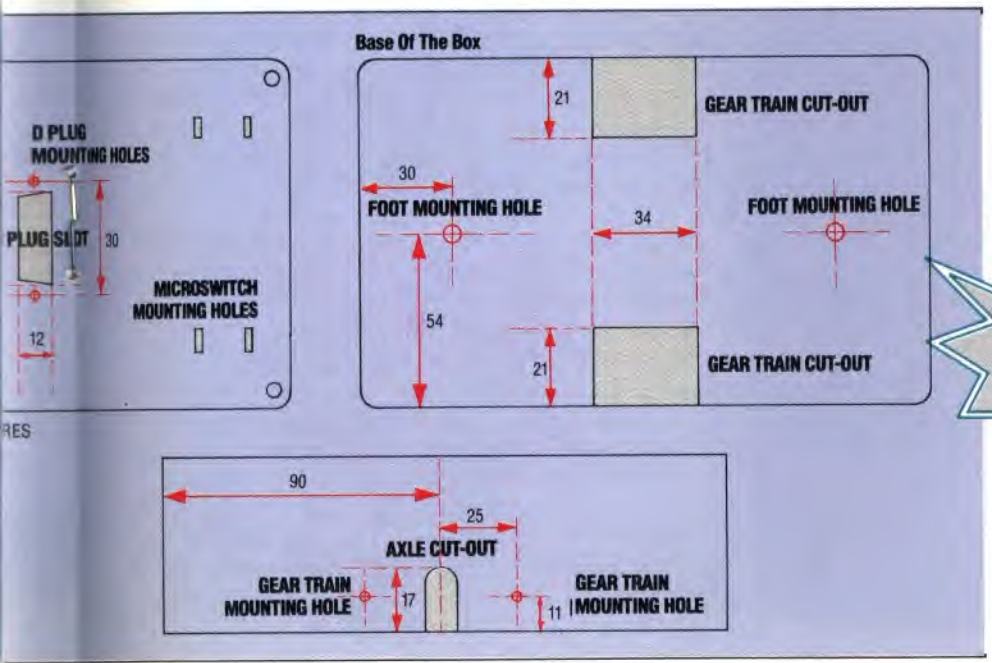


Parts List

No.	Item	Source
RADIO SPARES		
2	SAA 1027 stepper motor drivers	300-237
2	Stepper motors	332-947
2	Synchronous gear boxes 25:2	336-450
MAPLIN		
1	40109	QW67X
3	16-pin DIL sockets	BL19V
2	100 ohm resistor	M100R
2	270 ohm 0.5 watt resistor	S270R
2	0.1 µ F capacitor	YR75S
1	1000 µF 25v capacitors	FB83E
1	24 strip × 50 hole veroboard	FL07H
1	Reel tinned 20 swg wire	BL13P
1	15-way D plug	BK58N
1	15-way D socket	BK59P
1	15-way D cover	BK60Q
1	2.1 mm power socket	RK37S
1	20-way IDC socket	FG87U (BBC)
1	24-way edge connector	BK74R (64)
1	180 × 110 ×55 mm box	LF51F
1	Strip self adhesive pad	HB22V
2	Cabinet feet	FW39N
1	Pack 2BA nuts	BF16S
1	Pack 6BA 0.5in bolts	BF06G
1	Pack 6BA nuts	BF18U
1	Pack M5 25mm bolts	BF32K
1	Pack M5 nuts	BF56L
MISCELLANEOUS		
2	Lego 62mm wheels	Lego 1246
1	Pack technics axles	Lego 1233
4m	12-way ribbon cable	
1m	20-way ribbon cable	(BBC)
1	12-volt 1 amp DC supply	
2	2BA × 4cm bolts	

These parts should cost about £60 in total, which may make the robot more appealing as a group or school project than as an individual effort. The Radio Spares parts can be obtained directly from RS by account holders only; otherwise they can be ordered through other electronics retailers. London readers may like to visit the Robotics Workshop, 121 Ifield Road, SW10 to buy parts and for an interesting insight into the robotics world



WARNING!

The robot consumes a large amount of power; if the power supply has to drive the buffer box as well then the robot is underpowered, and will not move. The robot must, therefore, be connected directly to your computer's user port. If you are not confident of your ability to follow our instructions accurately, you should not attempt this project since mistakes could conceivably cause damage to your computer