



PURCHASE PARTS FOR YMD-F1 BURNER ASSEMBLY				
ITEM	DESCRIPTION	SOURCE	SUPPLIER	COST EST.
SW1-SW3	120VAC TOGGLE SWITCH, 10A	ELECTRICAL PARTS HOUSE	RADIOSHACK	\$9
T1	24 VDC CT XMR, 8A MAX LEAD	ELECTRICAL PARTS HOUSE	RADIOSHACK	\$12
D1, D2	200V, 8A FULL WAVE RECTIFIER	ELECTRICAL PARTS HOUSE	RADIOSHACK	\$4
C1, C2	1000 uF DR GREATER ELECTROLYTIC CAPACITOR	ELECTRICAL PARTS HOUSE	RADIOSHACK	\$10
F1	CHEAP HAIR DRYER	HOUSEWARES STORE	WALMART	\$4
P1	FUEL PUMP, 5-7PSI, 12VDC, 2A MAX DRAW	MR. GASKET MODEL 12S, AUTO PARTS STORE	ADVANCED AUTO PARTS	\$30
			TOTAL	\$57 (2007 PRICING)

FAN NOTES

CHEAP HAIR DRYERS TYPICALLY USE 12-24VDC BRUSH TYPE MOTORS. THE ONE USED IN THIS DESIGN WAS DISASSEMBLED, AND THE HEATING ELEMENT REMOVED. THE HAIR DRYER WAS RE-WIRED TO PROVIDE +24VDC TO THE MOTOR LEADS. ALL INTERNAL RECTIFIER DIODES AND CAPACITORS WERE REMOVED BECAUSE FILTERED 24VDC IS SUPPLIED FROM THE CONTROL PANEL. THE MOTOR SPEED AND CFM CAN BE CONTROLLED BY VARYING THE DC VOLTAGE, THOUGH NO PROVISION IS MADE HERE FOR THIS FUNCTION.