

ULTRASONIC TRANSDUCTION WEAPON SYSTEM

THIS WEAPON USES SIMPLE THEORY OF SOUND AT HIGH POWER AND DIRECTIONALLY FOCUSED USING A SOUND WAVE GUIDE OF A PARABOLIC DISH AND A SIMPLE FEEDBACK SYSTEM.

THE SCHEMATIC BELOW DEPICTS THE SIMPLICITY OF THE CIRCUIT AND ALLOWS FOR EASY PART REPLACEMENT AND CONSTRUCTION ADAPTATION TO SPECIFIC NEEDS.

THE CIRCUIT CAN BE SCALED UP USING BIGGER TRANSISTORS AND CASCADING THE AMPLIFIER SECTION TO THE TRANSDUCER.

ULTRASONIC TRANSDUCERS COME IN ALL SIZES...LARGE PIEZEO CRYSTALS EPOXY GLUED TO A LARGE STAINLESS STEEL SALAD BOWL WILL ACT AS AN EXCELLENT DIRECTIONAL WEAPON.

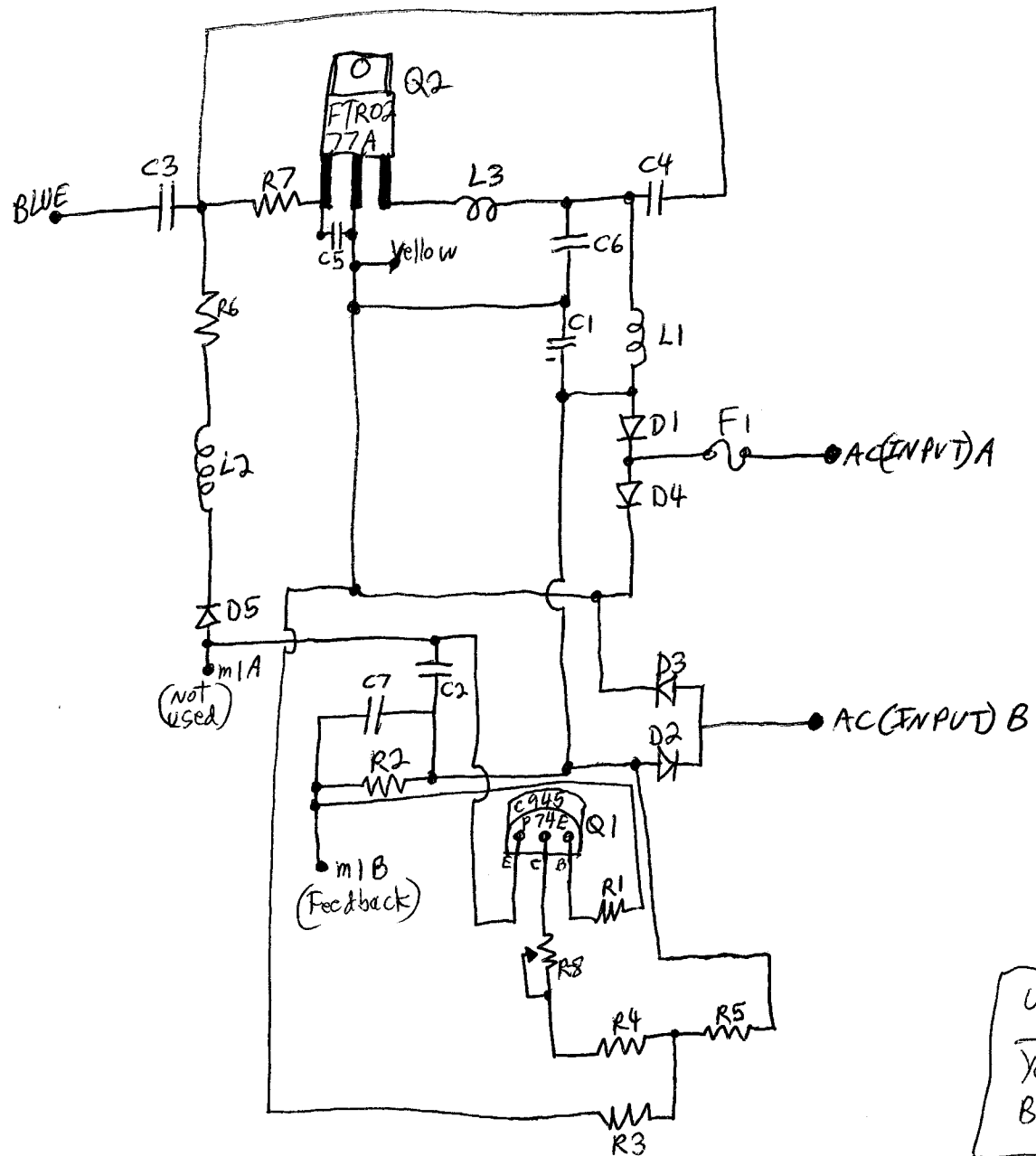
CONNECTION M1B MUST BE CONNECTED TO A FEEDBACK CONNECTION FROM THE BLUE WIRE. YOU CAN USE AN INDUCTOR AND RESISTOR IN SERIES. YOU WILL NEED TO FIGURE OUT HOW MUCH FEEDBACK YOU WILL NEED IN CONJUNCTION WITH YOUR SALAD BOWL OR DISH SETUP.

Q1 IS LABELLED C945 AND UNDER THAT IS LABELLED P74E. Q2 IS LABELLED FTR02 AND UNDER THAT IS LABELLED 77A.

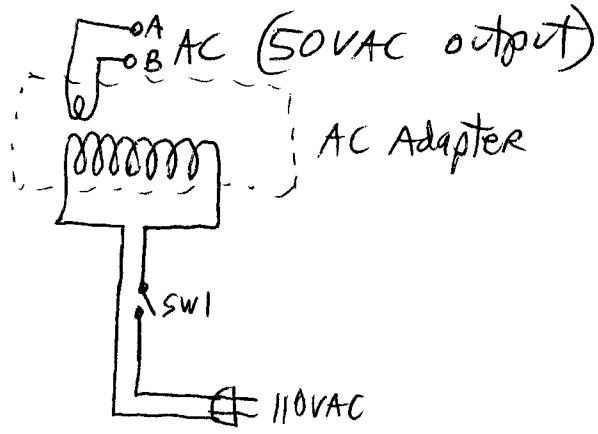
L1 IS A CHOKE. THIS CHOKE SHOULD BE VERY ADJUSTABLE FROM THE LOWEST RANGE TO THE HIGHEST RANGE. IT IS UP TO YOU TO FIND THE PROPER INDUCTANCE BY BUYING A WIDE VARIETY OF CHOKES TO USE.

TO FIND THE PROPER CHOKE YOU CAN PLACE A WIRE CONNECTED TO THE BLUE WIRE WHICH IS CONNECTED IN NORMAL OPERATING SETUP TO THE CRYSTAL... TO THE CENTER OF A CERAMIC BOWL FILLED WITH WATER, PLACE THE FEEDBACK WIRE M1B IN THE BOWL ALSO BUT MAKE SURE THE WIRES ARE NOT TOUCHING EACH OTHER. THIS WILL ALLOW FOR AUTOMATIC FEEDBACK ADJUSTMENT WHILE FINDING THE CHOKE VALUE.

Ultrasonic Transduction Weapon



Ultrasonic Piezoe Connection
 Yellow to edge
 Blue to Center



Connected

PARTS LISTING:

R1=1.5MEG 1/4WATT

R2=2.2MEG "

R3=4.7K 1/2WATT

R4=1K 1/4WATT

R5=4.7K 1/4WATT

R6=330OHM 1/4WATT

R7=BANDS OF RED RED GOLD GOLD, WHICH MEANS VERY ACCURATE 1/4W

R8=POT (1K TO 30K)AND TRY (30K TO 5MEG)

L1=CHOKE SEE TEXT

L2=BANDS OF BROWN BLACK BROWN SILVER

L3=3 TURNS OF 28GA MAGNET WIRE AROUND 4MM DOWEL

D1-5=1N5394

C1=100V @ 10uF

C2=GREEN CHICKLET 2A104J

C3=RED CHICKLET 473J 400VPY

C4=RED "''''''''

C5=DISC 1KV 101

C6=RED CHICKLET 152J 200VPY

C7=DISC 103

Q1=C945 (P)74E

Q2=FTR02 77A

F1=1A 125V
