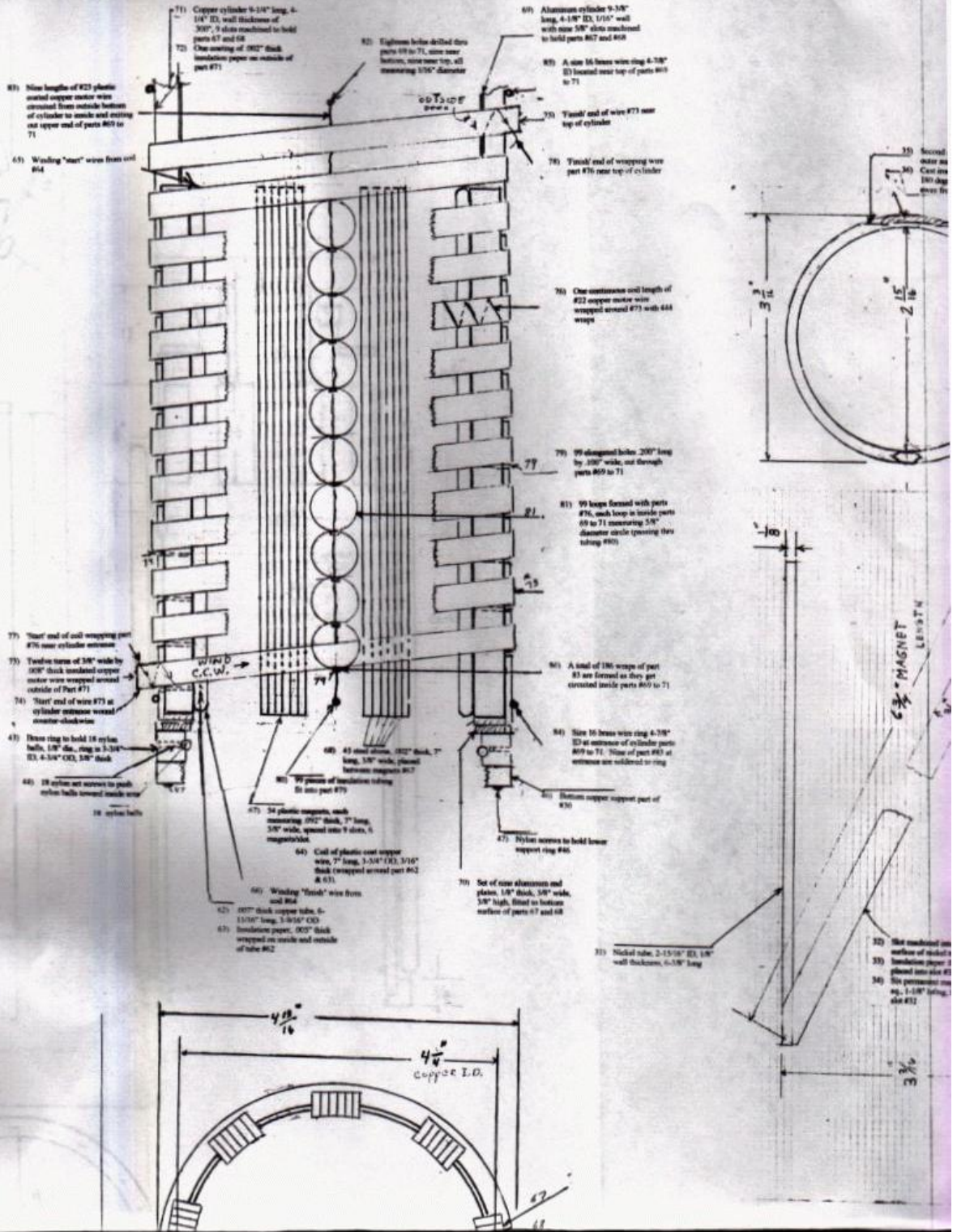
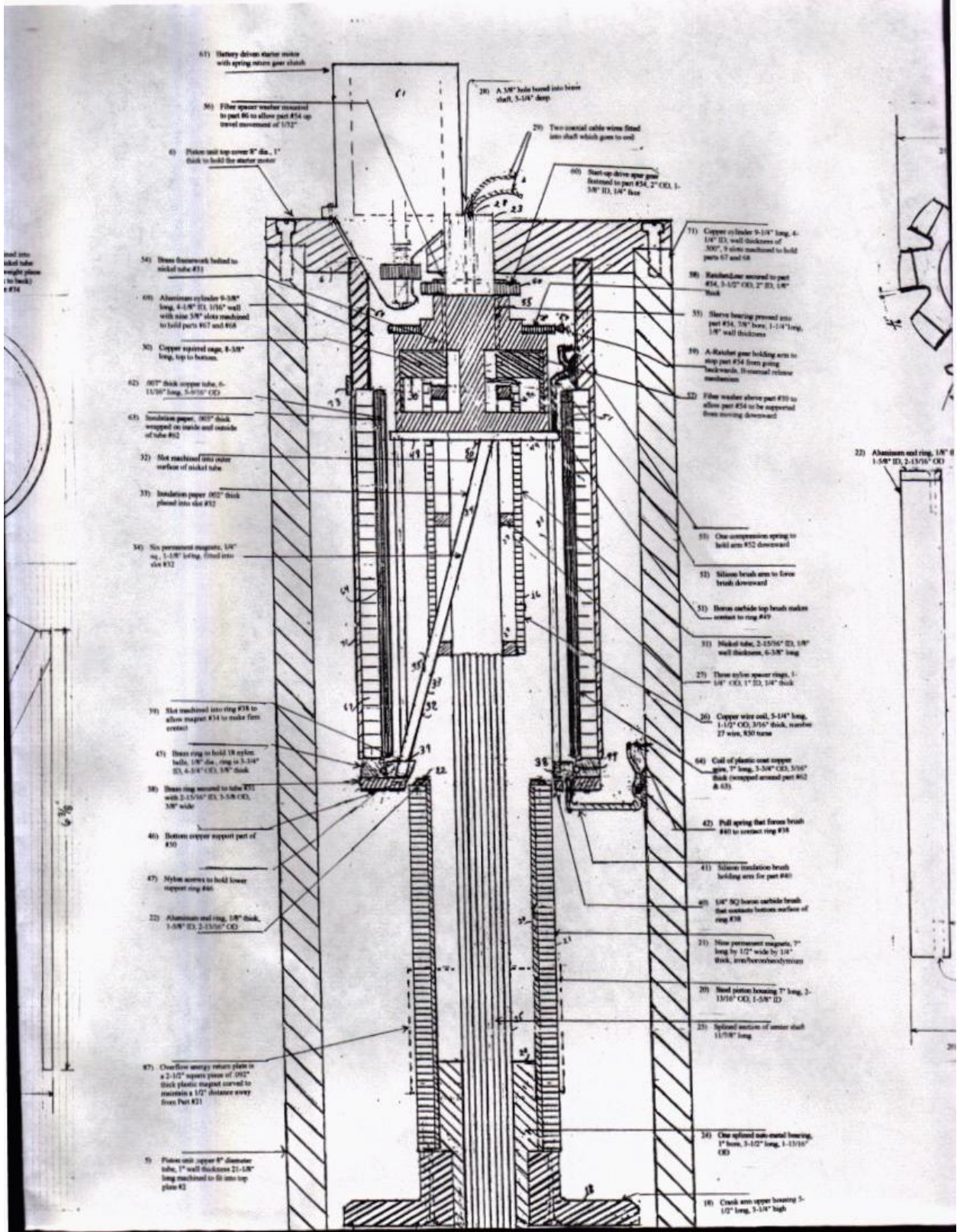


# MAGNETIC-ELECTRO PISTON







81) Battery driven starter motor with spring return gear clutch

56) Filter spacer washer mounted to part #6 to allow part #54 up travel movement of 1/32"

6) Nylon seal top cover 8" dia., 1" thick to hold the starter motor

28) A 3/8" hole bored into brass shaft, 3-1/4" deep

29) Two central cable wires fitted into shaft which goes to coil

60) Start-up drive gear fixed to part #54, 2" OD, 1-3/8" ID, 1/4" face

54) Brass framework bolted to nickel tube #11

68) Aluminum cylinder 9-3/8" long, 4-1/8" ID, 1/16" wall with nine 3/8" slots machined to hold parts #67 and #68

30) Copper spaced rings, 8-3/8" long, top to bottom

62) .007" thick copper tube, 6-11/16" long, 3-5/16" OD

63) Insulation paper, .007" thick wrapped on inside and outside of tube #62

32) Slot machined into outer surface of nickel tube

33) Insulation paper .007" thick placed into slot #32

34) Six permanent magnets, 1/4" sq., 1-1/8" long, fixed into slot #32

39) Not machined into ring #38 to allow magnet #34 to make force contact

43) Brass ring to hold 18 nylon balls, 1/8" dia., ring is 3-3/4" ID, 4-3/4" OD, 1/8" thick

38) Brass ring secured to tube #31 with 2-15/16" ID, 3-5/8" OD, 3/8" wide

40) Bottom copper support part of #31

47) Nylon screws to hold lower support ring #46

22) Aluminum end ring, 1/8" thick, 1-5/8" ID, 2-15/16" OD

87) Overflow energy return plate is a 2-1/2" square piece of .012" thick plastic spaced curved to maintain a 1/2" distance away from Part #21

5) Filter with copper 8" diameter tube, 1" wall thickness 21-1/8" long machined to fit into top plate #2

71) Copper cylinder 9-1/4" long, 4-1/4" ID, wall thickness of .300", 9 slots machined to hold parts #7 and #8

86) Resistor secured to part #54, 3-1/2" OD, 2" ID, 1/8" thick

53) Sleeve bearing pressed into part #54, 3/8" bore, 1-1/4" long, 1/8" wall thickness

89) A-Resistor gear holding arm to stop part #54 from going backwards, 3-curved return mechanism

37) Filter washer above part #30 to allow part #54 to be supported from moving downward

35) One compression spring to hold arm #32 downward

33) Silicon brush arm to force brush downward

51) Brass carbide tip brush makes contact to ring #49

31) Nickel tube, 2-15/16" ID, 1/8" wall thickness, 6-3/8" long

27) Three nylon spacer rings, 1-1/4" OD, 1" ID, 1/4" thick

26) Copper wire coil, 5-1/4" long, 1-1/2" OD, 3/16" thick, number 27 wire, 430 turns

64) Coil of plastic coated copper wire, 7" long, 3-3/8" OD, 3/16" thick wrapped around part #62 & #33

42) Pull spring that forces brush #40 to contact ring #38

41) Silicon induction brush holding arm for part #40

48) 1/4" RC) brass carbide brush that contacts bottom surface of ring #38

21) Nine permanent magnets, 7" long by 1 1/2" wide by 1/4" thick, iron/permalloy/copper

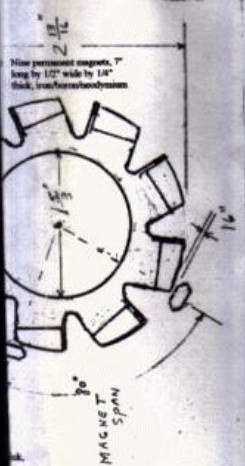
20) Steel plates housing 7" long, 2-13/16" OD, 1-5/8" ID

23) Splined section of motor shaft 11/16" long

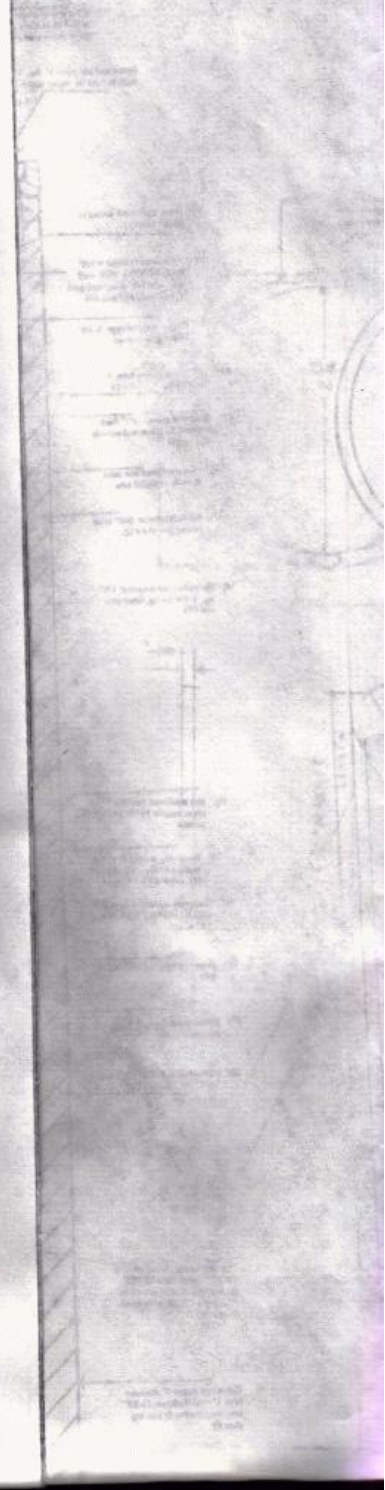
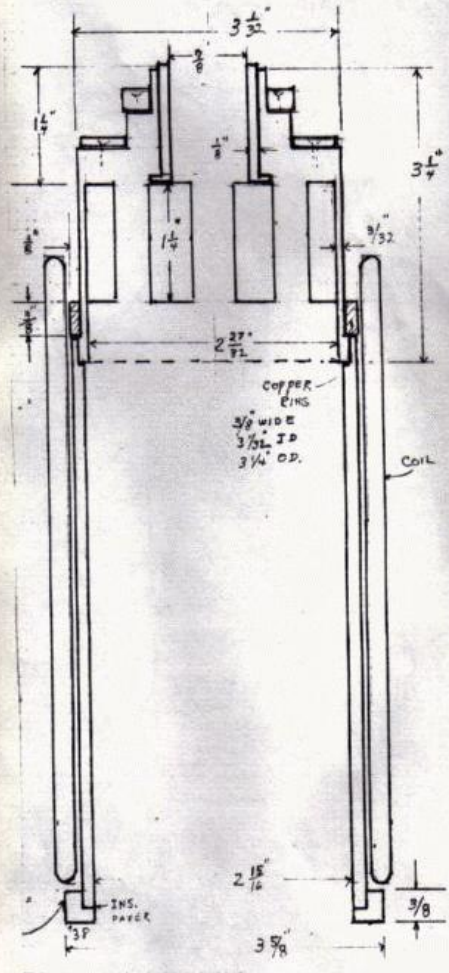
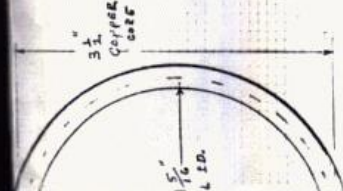
24) One splined non-steel bearing, 1" bore, 3-1/2" long, 1-13/16" OD

18) Check arm upper bearing 3-1/2" long, 3-1/4" high

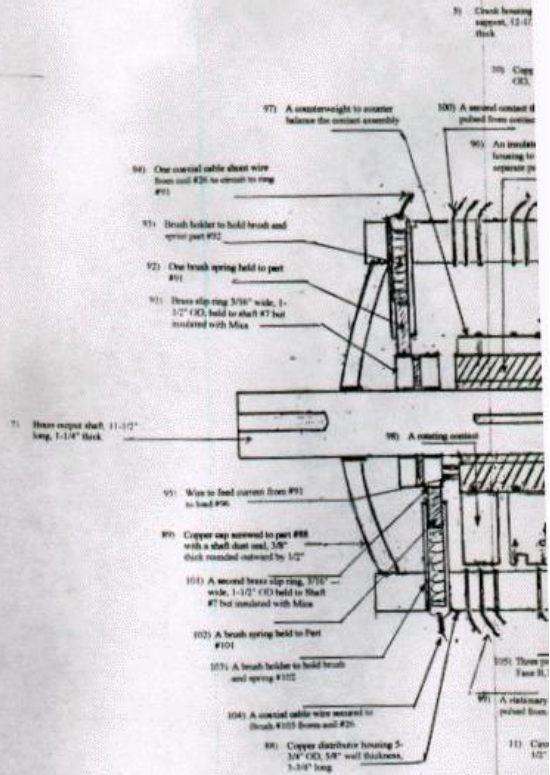
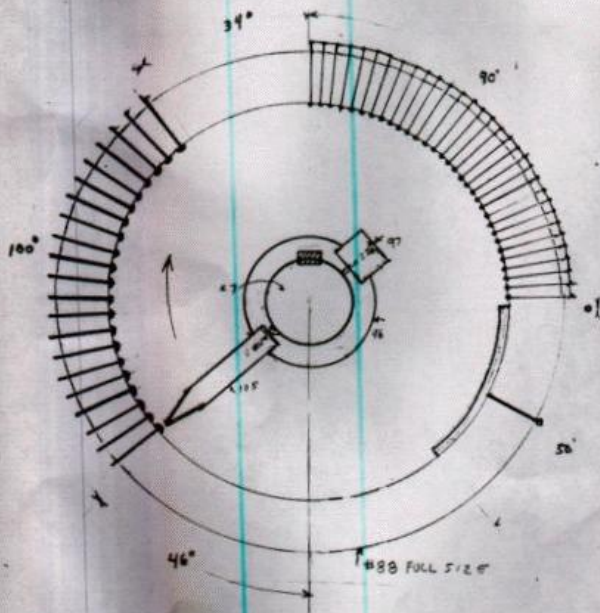
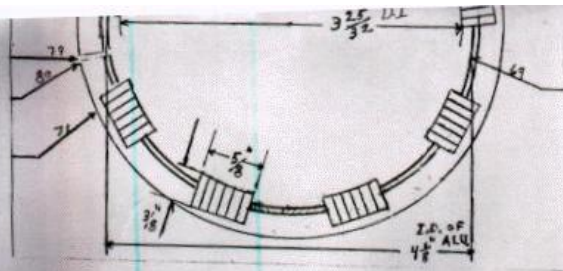
22) Aluminum end ring, 1/8" thick, 1-5/8" ID, 2-15/16" OD



and piston housing 7" long 2" ID 1.58" OD







HYDRA-C-ELECTRO SYSTEM



