

## INSTRUCTIONS

Thank you for purchasing CIRCUIT SYMBOLS for HOME DESIGNER. I hope you find them useful for your drawings.

To insert these figures into your drawings, follow the directions in your HOME DESIGNER manual. Please note that these figures are in full scale on the accompanying drawings.

Modifying these figures to suit your personal needs is easy.

### SCALE

To change the size of these figures INSERT them, say at X5Y5, on an empty workspace in HOME DESIGNER at the scale (greater or smaller) desired. For example:

```
INS LIB F.23 SCA 2 : LOC X5Y5, (don't forget the comma)
```

Use the LIBRARY command:

```
LIB X5Y5 (ret)
```

to define it and then FILE it either under the same name or if you wish to keep the original figure, under a different name. See the LIBRARY command and the INSERT LIBRARY command in your manual for further information.

### ORIGIN

The origins of these figures are in red on the accompanying sheets. (note: the origins are not on the disk figures) If you don't like the origins I have chosen, you can change them. Insert the figure at coordinate x5y5. Use the VERIFY command to identify the coordinates of the point for the new origin and define the new origin with the LIBRARY command

```
LIB Xnew coordinateYnewcoordinate (ret)
```

Now FILE it.

### ANGLE

The angle of insertion can be changed in a similar fashion. First INSERT the figure at the desired angle. For example:

```
INSERT LIB F.22 ANG 90 : LOC X5Y5,
```

The Origin remains the same, so if you are satisfied with that, key in

```
LIB X5Y5 (ret)
```

and FILE it under the desired name. Using the same technique, the scale can also be modified.

Any figure can be modified using HOME DESIGNER. Figures can be added or deleted. However, I wouldn't recommend adding your full drawings on a library disk.

**WARNING:** In the course of making these library figures, I had several bad saves on some figures with an original ROMed 1571!. If you plan to change anything, save it first as a temp. file and check it. Then rename it.

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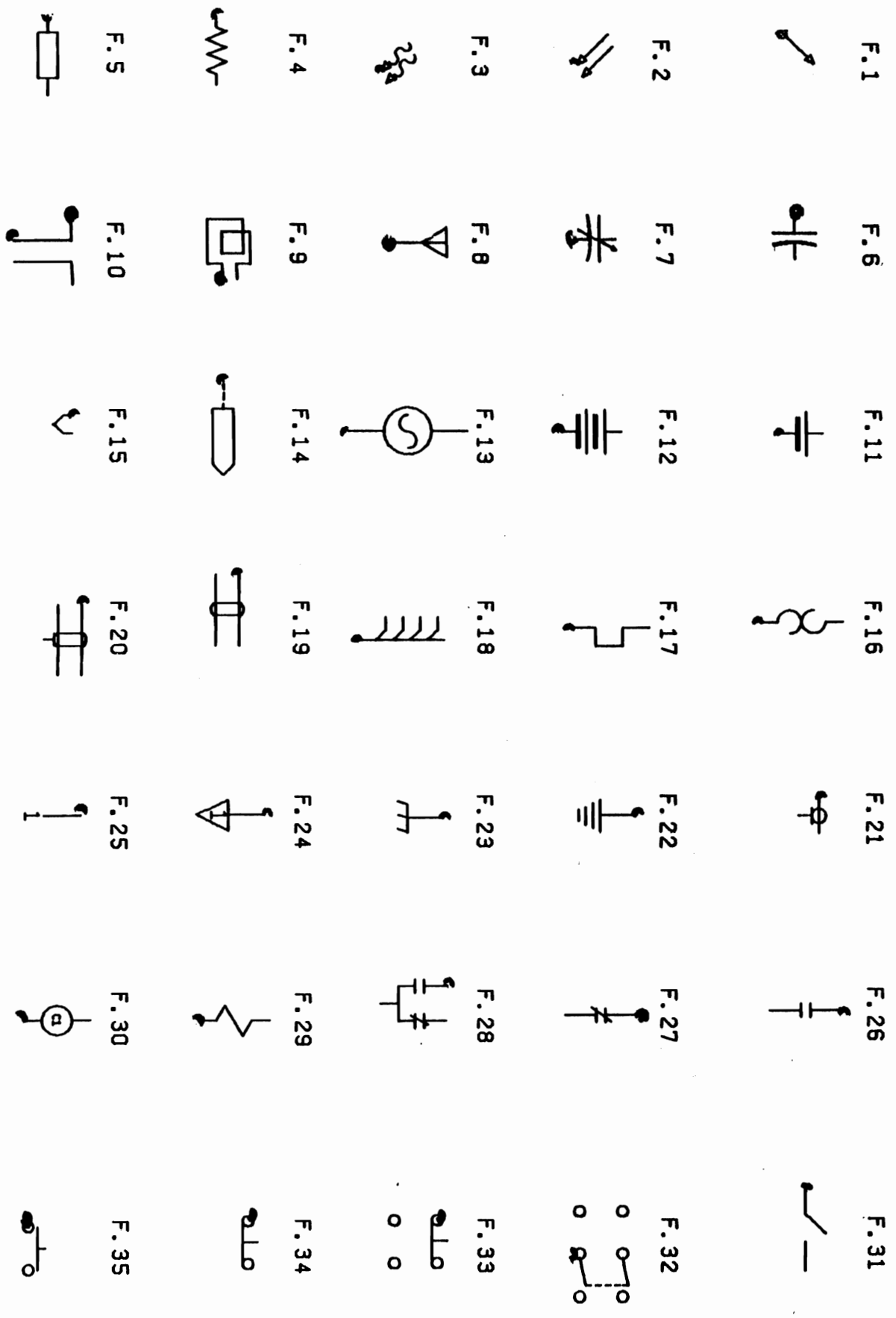
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REFERENCE LIST

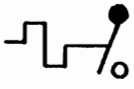
- F.1.....AJUSTABILITY SYMBOL  
 F.2.....RADIATION INDICATOR SYMBOL  
 F.3.....RADIATION INDICATOR SYMBOL  
 F.4.....RESISTOR  
 F.5.....RESISTOR (more resistors at f.105-107)  
 F.6.....FIXED CAPACITOR  
 F.7.....VARIABLE CAPACITOR  
 F.8.....GENERAL ANTENNA  
 F.9.....LOOP ANTENNA  
 F.10....DIPOLE ANTENNA  
 F.11....SINGLE CELL BATTERY  
 F.12....MULTI-CELL BATTERY  
 F.13....AC SOURCE  
 F.14....MAGNETIC PICKUP HEAD  
 F.15....THERMOCOUPLE  
 F.16....THERMOMECHANICAL TRANSDUCER  
 F.17....THERMOMECHANICAL TRANSDUCER  
 F.18....MULTICONDUCTOR CABLE  
 F.19....PAIR WITH FLOATING SHIELD  
 F.20....SHIELDED PAIR  
 F.21....SHIELDED SINGLES  
 F.22....GROUND  
 F.23....CHASSIS GROUND  
 F.24....CIRCUIT RETURN  
 F.25....CIRCUIT RETURN  
 F.26....NO CONTACT ASSEMBLY  
 F.27....NC CONTACT ASSEMBLY  
 F.28....NO & NC CONTACT ASSEMBLY  
 F.29....RELAY COIL  
 F.30....RELAY COIL  
 F.31....SPDT SWITCH  
 F.32....DPTT SWITCH  
 F.33....PUSH BUTTON, NO & NC  
 F.34....PUSH BUTTON, NC  
 F.35....PUSH BUTTON, NO  
 F.36....LIMIT SW, NC OPEN ON INC  
 F.37....LIMIT SW, NO CLOSE ON DEC  
 F.38....LIMIT SW, NC OPEN ON DEC  
 F.39....LIMIT SW, NO CLOSE ON INC  
 F.40....TEMP SW OPEN ON INC  
 F.41....TEMP SW CLOSE ON INC  
 F.42....3 PH MECH CONTACTOR  
 F.43....3 PH RLY CONT  
 F.44....3 PH RLY CONT  
 F.45....RELAY W/NO & NC CONTACTS  
 F.46....RELAY W/NO & NC CONTACTS  
 F.47....TERMINAL BOARD-4 (more at f.113-115)  
 F.48....TERMINAL BOARD-6  
 F.49....CONNECTOR/DISCONNECTING DEVICE  
 F.50....CONNECTOR/DISCONNECTING DEVICE  
 F.51....CONNECTOR/DISCONNECTING DEVICE  
 F.52....2 CONDUCTOR PLUG  
 F.53....2 CONDUCTOR JACK  
 F.54....FEMALE 3 CONDUCTOR/CONNECTOR  
 F.55....FEMALE 3 CONDUCTOR/CONNECTOR  
 F.56....FEMALE 3 CONDUCTOR/CONNECTOR  
 F.57....FEMALE 3 CONDUCTOR/CONNECTOR  
 F.58....FEMALE 3 CONDUCTOR/CONNECTON  
 F.59....ENGAGED COAXIAL CONNECTOR  
 F.60....COAXIAL CONNECTOR  
 F.61....INDUCTOR  
 F.62....INDUCTOR W/ MAG. CORE  
 F.63....TRANSFORMER  
 F.64....MAGNETIC NONSATURATING TRANSFORMER  
 F.65....MAGNETIC SHIELDED TRANSFORMER  
 F.66....ROTARY WAFER  
 F.67....TAPPED TRANSFORMER  
 F.68....PERMEABLE TRANSFORMER  
 F.69....SINGLE LINE TRANSFORMER  
 F.70....ELECTRON TUBE PARTS  
 F.71....ELECTRON TUBE PARTS  
 F.72....ELECTRON TUBE PARTS  
 F.73....ELECTRON TUBE PARTS  
 F.74....ELECTRON TUBE  
 F.75....RECTIFIER  
 F.76....RECTIFIER  
 F.77....NEG-POS-NEG TRANSISTOR  
 F.78....POS-NEG-POS TRANSISTOR  
 F.79....3+ TERMINAL TRANSISTOR  
 F.80....3+ TERMINAL TRANSISTOR  
 F.81....TRANSISTOR  
 F.82....TRANSISTOR  
 F.83....PHOTON COUPLED ISOLATOR  
 F.84....FUSE  
 F.85....FUSE  
 F.86....FUSE  
 F.87....CIRCUIT BREAKER  
 F.88....CIRCUIT BREAKER  
 F.89....CIRCUIT BREAKER  
 F.90....ACOUSTIC DEVICE  
 F.91....AC MACHINE  
 F.92....AC MACHINE  
 F.93....SYNCHRO  
 F.94....SYNCHRO  
 F.95....SYNCHRO  
 F.96....AMPLIFIER  
 F.97....OPERATIONAL AMPLIFIER  
 F.98....SUMMING AMPLIFIER  
 F.99....INTEGRATOR  
 F.100...ELECTRONIC MULTIPLIER  
 F.101...ELECTRONIC DIVIDER  
 F.102...ELECTRONIC FUNCTION GENERATOR  
 F.103...VOLTAGE PHOTO CELL  
 F.104...RESISTANCE PHOTO CELL  
 F.105...TAPPED RESISTOR  
 F.106...VARIABLE RESISTOR  
 F.107...THERMISTOR  
 F.108...NOT GATE (LOGIC)  
 F.109...AND GATE (LOGIC)  
 F.110...OR GATE (LOGIC)  
 F.111...NOR GATE (LOGIC)  
 F.112...NAND GATE (LOGIC)  
 F.113...TERMINAL BOARD-8  
 F.114...TERMINAL BOARD-10  
 F.115...TERMINAL BOARD-12



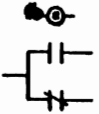
F. 36



F. 41



F. 46



F. 51



F. 56



F. 61



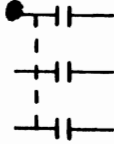
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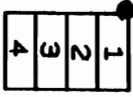
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F. 42



F. 47



F. 52



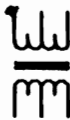
F. 57



F. 62



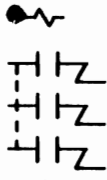
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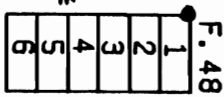
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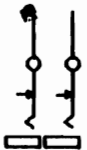
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F. 48



F. 53



F. 58



F. 63



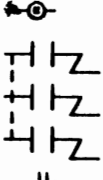
F. 68



F. 39



F. 44



F. 49



F. 54



F. 59



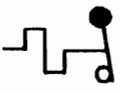
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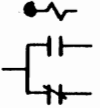
F. 69



F. 40



F. 45



F. 50



F. 55



F. 60



F. 65



F. 70





F.71



F.76



F.81



F.86



F.91



F.96



F.101



F.72



F.77



F.82



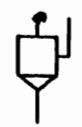
F.87



F.92



F.97



F.102



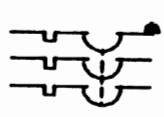
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F.78



F.83



F.88



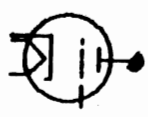
F.93



F.98



F.103



F.74



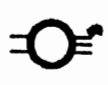
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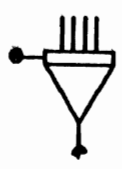
F.84



F.89



F.94



F.99



F.104



F.75



F.80



F.85



F.90



F.95



F.100



F.105

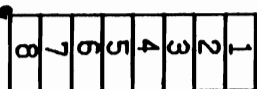
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F.111



F.114



F.107



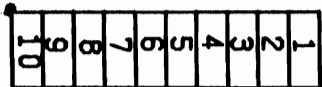
F.112



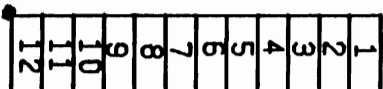
F.108



F.113



F.115



F.109



F.110

