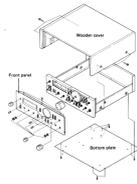


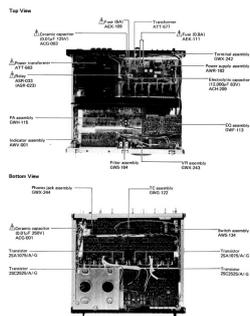
6. DISASSEMBLY

Wooden Cover
Remove the two screws on each side of the wooden cover.

Bottom Panel
Remove the four screws to detach the bottom panel.

Front Panel
Loosen the six screws of VOLUME knob with a hexagonal wrench. Remove all the knobs by pulling. Remove the three screws from the top edge of the front panel. Remove the front panel from the cabinet shell.





9. ADJUSTMENTS

Phase Amplifier

Note: The $V_{A(1)}$, $V_{A(2)}$ and $V_{A(3)}$ $V_{B(1)}$ and $V_{B(2)}$ are mounted in the counter-clockwise direction, but are $V_{A(1)}$ and $V_{B(1)}$ in the same pattern, which are 180° out of phase with the POWER.

DC Balance

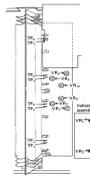
1. Adjust $V_{A(1)}$ for 2V (in within $\pm 0.5\text{mV}$)
2. Adjust $V_{A(2)}$ for 2V (in within $\pm 0.5\text{mV}$)
3. Adjust $V_{A(3)}$ for 2V (in within $\pm 0.5\text{mV}$)

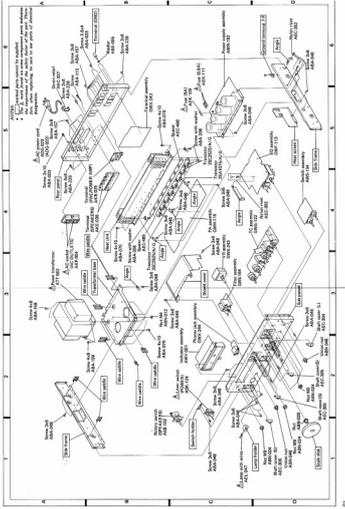
Mid-Frequency

1. Adjust $V_{A(1)}$ for 10mV between terminals $V_{A(1)}$ and $V_{B(1)}$. The greatest difference between terminals $V_{A(1)}$ and $V_{B(1)}$ should appear about 10mV at this time. $V_{A(1)}$ should appear about 10mV at this time.
2. Adjust $V_{A(2)}$ for 10mV between terminals $V_{A(2)}$ and $V_{B(2)}$. The greatest difference between terminals $V_{A(2)}$ and $V_{B(2)}$ should appear about 10mV at this time.
3. Adjust $V_{A(3)}$ for 10mV between terminals $V_{A(3)}$ and $V_{B(3)}$. The greatest difference between terminals $V_{A(3)}$ and $V_{B(3)}$ should appear about 10mV at this time.
4. Adjust $V_{B(1)}$ for 10mV between terminals $V_{A(1)}$ and $V_{B(1)}$. The greatest difference between terminals $V_{A(1)}$ and $V_{B(1)}$ should appear about 10mV at this time.
5. Adjust $V_{B(2)}$ for 10mV between terminals $V_{A(2)}$ and $V_{B(2)}$. The greatest difference between terminals $V_{A(2)}$ and $V_{B(2)}$ should appear about 10mV at this time.
6. Adjust $V_{B(3)}$ for 10mV between terminals $V_{A(3)}$ and $V_{B(3)}$. The greatest difference between terminals $V_{A(3)}$ and $V_{B(3)}$ should appear about 10mV at this time.

Output Power Indicator Calibration

1. Adjust $V_{A(1)}$ for 10mV between terminals $V_{A(1)}$ and $V_{B(1)}$. The greatest difference between terminals $V_{A(1)}$ and $V_{B(1)}$ should appear about 10mV at this time.
2. Adjust $V_{A(2)}$ for 10mV between terminals $V_{A(2)}$ and $V_{B(2)}$. The greatest difference between terminals $V_{A(2)}$ and $V_{B(2)}$ should appear about 10mV at this time.
3. Adjust $V_{A(3)}$ for 10mV between terminals $V_{A(3)}$ and $V_{B(3)}$. The greatest difference between terminals $V_{A(3)}$ and $V_{B(3)}$ should appear about 10mV at this time.





11. SCHEMATIC DIAGRAMS, P.C. BOARD PATTERNS AND PARTS LIST

NOTES:
 1. All dimensions are in millimeters, but nearest equivalent values may also be shown in inches in parentheses.
 2. All dimensions are given in millimeters, but nearest equivalent values may also be shown in inches in parentheses.
 3. All dimensions are given in millimeters, but nearest equivalent values may also be shown in inches in parentheses.
 4. All dimensions are given in millimeters, but nearest equivalent values may also be shown in inches in parentheses.
 5. All dimensions are given in millimeters, but nearest equivalent values may also be shown in inches in parentheses.
 6. All dimensions are given in millimeters, but nearest equivalent values may also be shown in inches in parentheses.
 7. All dimensions are given in millimeters, but nearest equivalent values may also be shown in inches in parentheses.
 8. All dimensions are given in millimeters, but nearest equivalent values may also be shown in inches in parentheses.
 9. All dimensions are given in millimeters, but nearest equivalent values may also be shown in inches in parentheses.
 10. All dimensions are given in millimeters, but nearest equivalent values may also be shown in inches in parentheses.

11.1 MISCELLANEA

Maintenence Parts

P.C. BOARD ASSEMBLIES

Part No.	Description	Part No.	Unit & Description
800101	Subassembly	800101	Subassembly
800102	Subassembly	800102	Subassembly
800103	Subassembly	800103	Subassembly
800104	Subassembly	800104	Subassembly
800105	Subassembly	800105	Subassembly
800106	Subassembly	800106	Subassembly
800107	Subassembly	800107	Subassembly
800108	Subassembly	800108	Subassembly
800109	Subassembly	800109	Subassembly
800110	Subassembly	800110	Subassembly

LAMP AND FUSES

Part No.	Description	Part No.	Unit & Description
800111	Lamp	800111	Lamp
800112	Fuse	800112	Fuse
800113	Fuse	800113	Fuse
800114	Fuse	800114	Fuse
800115	Fuse	800115	Fuse
800116	Fuse	800116	Fuse
800117	Fuse	800117	Fuse
800118	Fuse	800118	Fuse
800119	Fuse	800119	Fuse
800120	Fuse	800120	Fuse

CONNECTORS

Part No.	Description	Part No.	Unit & Description
800121	Connector	800121	Connector
800122	Connector	800122	Connector
800123	Connector	800123	Connector
800124	Connector	800124	Connector
800125	Connector	800125	Connector
800126	Connector	800126	Connector
800127	Connector	800127	Connector
800128	Connector	800128	Connector
800129	Connector	800129	Connector
800130	Connector	800130	Connector

SWITCHES

Part No.	Description	Part No.	Unit & Description
800131	Switch	800131	Switch
800132	Switch	800132	Switch
800133	Switch	800133	Switch
800134	Switch	800134	Switch
800135	Switch	800135	Switch
800136	Switch	800136	Switch
800137	Switch	800137	Switch
800138	Switch	800138	Switch
800139	Switch	800139	Switch
800140	Switch	800140	Switch

RELAYS

Part No.	Description	Part No.	Unit & Description
800141	Relay	800141	Relay
800142	Relay	800142	Relay
800143	Relay	800143	Relay
800144	Relay	800144	Relay
800145	Relay	800145	Relay
800146	Relay	800146	Relay
800147	Relay	800147	Relay
800148	Relay	800148	Relay
800149	Relay	800149	Relay
800150	Relay	800150	Relay

DIODES

Part No.	Description	Part No.	Unit & Description
800151	Diode	800151	Diode
800152	Diode	800152	Diode
800153	Diode	800153	Diode
800154	Diode	800154	Diode
800155	Diode	800155	Diode
800156	Diode	800156	Diode
800157	Diode	800157	Diode
800158	Diode	800158	Diode
800159	Diode	800159	Diode
800160	Diode	800160	Diode

TRANSISTORS

Part No.	Description	Part No.	Unit & Description
800161	Transistor	800161	Transistor
800162	Transistor	800162	Transistor
800163	Transistor	800163	Transistor
800164	Transistor	800164	Transistor
800165	Transistor	800165	Transistor
800166	Transistor	800166	Transistor
800167	Transistor	800167	Transistor
800168	Transistor	800168	Transistor
800169	Transistor	800169	Transistor
800170	Transistor	800170	Transistor

RESISTORS

Part No.	Description	Part No.	Unit & Description
800171	Resistor	800171	Resistor
800172	Resistor	800172	Resistor
800173	Resistor	800173	Resistor
800174	Resistor	800174	Resistor
800175	Resistor	800175	Resistor
800176	Resistor	800176	Resistor
800177	Resistor	800177	Resistor
800178	Resistor	800178	Resistor
800179	Resistor	800179	Resistor
800180	Resistor	800180	Resistor

CAPACITORS

Part No.	Description	Part No.	Unit & Description
800181	Capacitor	800181	Capacitor
800182	Capacitor	800182	Capacitor
800183	Capacitor	800183	Capacitor
800184	Capacitor	800184	Capacitor
800185	Capacitor	800185	Capacitor
800186	Capacitor	800186	Capacitor
800187	Capacitor	800187	Capacitor
800188	Capacitor	800188	Capacitor
800189	Capacitor	800189	Capacitor
800190	Capacitor	800190	Capacitor

INDUCTORS

Part No.	Description	Part No.	Unit & Description
800191	Inductor	800191	Inductor
800192	Inductor	800192	Inductor
800193	Inductor	800193	Inductor
800194	Inductor	800194	Inductor
800195	Inductor	800195	Inductor
800196	Inductor	800196	Inductor
800197	Inductor	800197	Inductor
800198	Inductor	800198	Inductor
800199	Inductor	800199	Inductor
800200	Inductor	800200	Inductor

COILS

Part No.	Description	Part No.	Unit & Description
800201	Coil	800201	Coil
800202	Coil	800202	Coil
800203	Coil	800203	Coil
800204	Coil	800204	Coil
800205	Coil	800205	Coil
800206	Coil	800206	Coil
800207	Coil	800207	Coil
800208	Coil	800208	Coil
800209	Coil	800209	Coil
800210	Coil	800210	Coil

RELAY COILS

Part No.	Description	Part No.	Unit & Description
800211	Relay Coil	800211	Relay Coil
800212	Relay Coil	800212	Relay Coil
800213	Relay Coil	800213	Relay Coil
800214	Relay Coil	800214	Relay Coil
800215	Relay Coil	800215	Relay Coil
800216	Relay Coil	800216	Relay Coil
800217	Relay Coil	800217	Relay Coil
800218	Relay Coil	800218	Relay Coil
800219	Relay Coil	800219	Relay Coil
800220	Relay Coil	800220	Relay Coil

RELAY CONTACTS

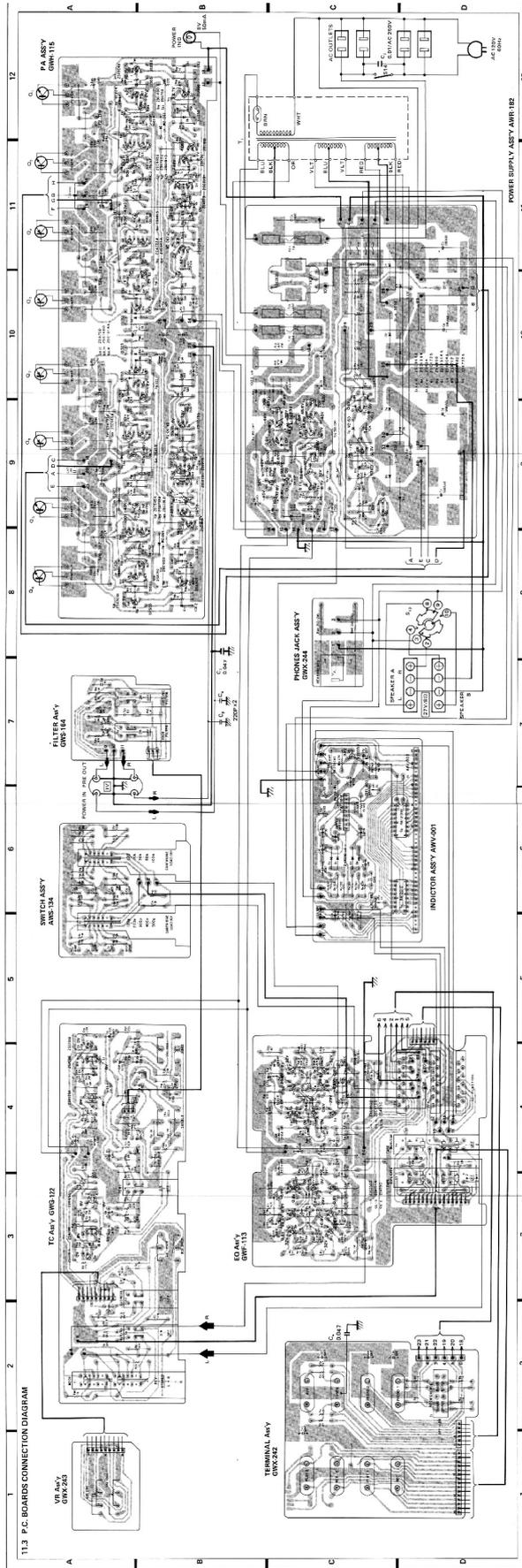
Part No.	Description	Part No.	Unit & Description
800221	Relay Contact	800221	Relay Contact
800222	Relay Contact	800222	Relay Contact
800223	Relay Contact	800223	Relay Contact
800224	Relay Contact	800224	Relay Contact
800225	Relay Contact	800225	Relay Contact
800226	Relay Contact	800226	Relay Contact
800227	Relay Contact	800227	Relay Contact
800228	Relay Contact	800228	Relay Contact
800229	Relay Contact	800229	Relay Contact
800230	Relay Contact	800230	Relay Contact

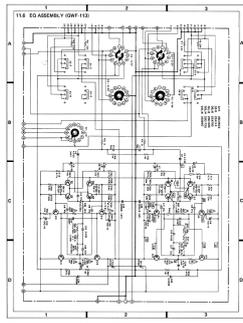
RELAY SPRINGS

Part No.	Description	Part No.	Unit & Description
800231	Relay Spring	800231	Relay Spring
800232	Relay Spring	800232	Relay Spring
800233	Relay Spring	800233	Relay Spring
800234	Relay Spring	800234	Relay Spring
800235	Relay Spring	800235	Relay Spring
800236	Relay Spring	800236	Relay Spring
800237	Relay Spring	800237	Relay Spring
800238	Relay Spring	800238	Relay Spring
800239	Relay Spring	800239	Relay Spring
800240	Relay Spring	800240	Relay Spring

RELAY TERMINALS

Part No.	Description	Part No.	Unit & Description
800241	Relay Terminal	800241	Relay Terminal
800242	Relay Terminal	800242	Relay Terminal
800243	Relay Terminal	800243	Relay Terminal
800244	Relay Terminal	800244	Relay Terminal
800245	Relay Terminal	800245	Relay Terminal
800246	Relay Terminal	800246	Relay Terminal
800247	Relay Terminal	800247	Relay Terminal
800248	Relay Terminal	800248	Relay Terminal
800249	Relay Terminal	800249	Relay Terminal
800250	Relay Terminal	800250	Relay Terminal



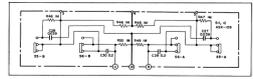


Part List of EO Assembly (DWP 132)

SWITCHES		RESISTORS	
Part No.	Supplier & Description	Part No.	Supplier & Description
SW1-10	10 1000 100 100 100	R100-100-1	100 100 100 100 100
SW1-11	11 1000 100 100 100	R100-100-2	100 100 100 100 100
SW1-12	12 1000 100 100 100	R100-100-3	100 100 100 100 100
SW1-13	13 1000 100 100 100	R100-100-4	100 100 100 100 100

CAPACITORS		SEMICONDUCTORS	
Part No.	Supplier & Description	Part No.	Supplier & Description
C100-100-1	100 100 100 100 100	DI100-1	100 100 100 100 100
C100-100-2	100 100 100 100 100	DI100-2	100 100 100 100 100
C100-100-3	100 100 100 100 100	DI100-3	100 100 100 100 100
C100-100-4	100 100 100 100 100	DI100-4	100 100 100 100 100
C100-100-5	100 100 100 100 100	DI100-5	100 100 100 100 100
C100-100-6	100 100 100 100 100	DI100-6	100 100 100 100 100
C100-100-7	100 100 100 100 100	DI100-7	100 100 100 100 100
C100-100-8	100 100 100 100 100	DI100-8	100 100 100 100 100
C100-100-9	100 100 100 100 100	DI100-9	100 100 100 100 100
C100-100-10	100 100 100 100 100	DI100-10	100 100 100 100 100

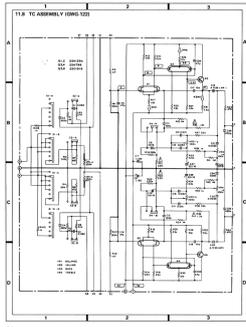
117 FILTER ASSEMBLY (DWS 164)



Part List

SWITCHES		RESISTORS	
Part No.	Supplier & Description	Part No.	Supplier & Description
SW1-10	10 1000 100 100 100	R100-100-1	100 100 100 100 100
SW1-11	11 1000 100 100 100	R100-100-2	100 100 100 100 100
SW1-12	12 1000 100 100 100	R100-100-3	100 100 100 100 100
SW1-13	13 1000 100 100 100	R100-100-4	100 100 100 100 100

CAPACITORS		SEMICONDUCTORS	
Part No.	Supplier & Description	Part No.	Supplier & Description
C100-100-1	100 100 100 100 100	DI100-1	100 100 100 100 100
C100-100-2	100 100 100 100 100	DI100-2	100 100 100 100 100
C100-100-3	100 100 100 100 100	DI100-3	100 100 100 100 100
C100-100-4	100 100 100 100 100	DI100-4	100 100 100 100 100
C100-100-5	100 100 100 100 100	DI100-5	100 100 100 100 100
C100-100-6	100 100 100 100 100	DI100-6	100 100 100 100 100
C100-100-7	100 100 100 100 100	DI100-7	100 100 100 100 100
C100-100-8	100 100 100 100 100	DI100-8	100 100 100 100 100
C100-100-9	100 100 100 100 100	DI100-9	100 100 100 100 100
C100-100-10	100 100 100 100 100	DI100-10	100 100 100 100 100



Parts List of TC Assembly (DWG 132)

SWITCHES

Part No.	Symbol & Description	Part No.	Symbol & Description
SW-01	SW-1	SW-02	SW-2
SW-03	SW-3	SW-04	SW-4
SW-05	SW-5	SW-06	SW-6
SW-07	SW-7	SW-08	SW-8
SW-09	SW-9	SW-10	SW-10

CONNECTORS

Part No.	Symbol & Description	Part No.	Symbol & Description
CON-01	CON-1	CON-02	CON-2
CON-03	CON-3	CON-04	CON-4
CON-05	CON-5	CON-06	CON-6
CON-07	CON-7	CON-08	CON-8
CON-09	CON-9	CON-10	CON-10

RESISTORS

Part No.	Symbol & Description	Part No.	Symbol & Description
RES-01	RES-1	RES-02	RES-2
RES-03	RES-3	RES-04	RES-4
RES-05	RES-5	RES-06	RES-6
RES-07	RES-7	RES-08	RES-8
RES-09	RES-9	RES-10	RES-10

DIODES

Part No.	Symbol & Description	Part No.	Symbol & Description
DI-01	DI-1	DI-02	DI-2
DI-03	DI-3	DI-04	DI-4
DI-05	DI-5	DI-06	DI-6
DI-07	DI-7	DI-08	DI-8
DI-09	DI-9	DI-10	DI-10

TRANSISTORS

Part No.	Symbol & Description	Part No.	Symbol & Description
TR-01	TR-1	TR-02	TR-2
TR-03	TR-3	TR-04	TR-4
TR-05	TR-5	TR-06	TR-6
TR-07	TR-7	TR-08	TR-8
TR-09	TR-9	TR-10	TR-10

ICs

Part No.	Symbol & Description	Part No.	Symbol & Description
IC-01	IC-1	IC-02	IC-2
IC-03	IC-3	IC-04	IC-4
IC-05	IC-5	IC-06	IC-6
IC-07	IC-7	IC-08	IC-8
IC-09	IC-9	IC-10	IC-10

INDUCTORS

Part No.	Symbol & Description	Part No.	Symbol & Description
IND-01	IND-1	IND-02	IND-2
IND-03	IND-3	IND-04	IND-4
IND-05	IND-5	IND-06	IND-6
IND-07	IND-7	IND-08	IND-8
IND-09	IND-9	IND-10	IND-10

Capacitors

Part No.	Symbol & Description	Part No.	Symbol & Description
CAP-01	CAP-1	CAP-02	CAP-2
CAP-03	CAP-3	CAP-04	CAP-4
CAP-05	CAP-5	CAP-06	CAP-6
CAP-07	CAP-7	CAP-08	CAP-8
CAP-09	CAP-9	CAP-10	CAP-10

Other Components

Part No.	Symbol & Description	Part No.	Symbol & Description
COMP-01	COMP-1	COMP-02	COMP-2
COMP-03	COMP-3	COMP-04	COMP-4
COMP-05	COMP-5	COMP-06	COMP-6
COMP-07	COMP-7	COMP-08	COMP-8
COMP-09	COMP-9	COMP-10	COMP-10

Wires

Part No.	Symbol & Description	Part No.	Symbol & Description
WIR-01	WIR-1	WIR-02	WIR-2
WIR-03	WIR-3	WIR-04	WIR-4
WIR-05	WIR-5	WIR-06	WIR-6
WIR-07	WIR-7	WIR-08	WIR-8
WIR-09	WIR-9	WIR-10	WIR-10

PCB

Part No.	Symbol & Description	Part No.	Symbol & Description
PCB-01	PCB-1	PCB-02	PCB-2
PCB-03	PCB-3	PCB-04	PCB-4
PCB-05	PCB-5	PCB-06	PCB-6
PCB-07	PCB-7	PCB-08	PCB-8
PCB-09	PCB-9	PCB-10	PCB-10

Other Parts

Part No.	Symbol & Description	Part No.	Symbol & Description
OTHR-01	OTHR-1	OTHR-02	OTHR-2
OTHR-03	OTHR-3	OTHR-04	OTHR-4
OTHR-05	OTHR-5	OTHR-06	OTHR-6
OTHR-07	OTHR-7	OTHR-08	OTHR-8
OTHR-09	OTHR-9	OTHR-10	OTHR-10

Assembly Notes

Note No.	Description
1	Check all components for correct values and tolerances.
2	Ensure proper polarity for diodes and transistors.
3	Use appropriate soldering techniques for all connections.
4	Verify the PCB layout and component placement.
5	Perform a functional test after assembly.

Material Requirements

Part No.	Quantity	Material
SW-01	10	SW-1
CON-01	5	CON-1
RES-01	20	RES-1
DI-01	10	DI-1
TR-01	5	TR-1
IC-01	10	IC-1
IND-01	5	IND-1
CAP-01	10	CAP-1
WIR-01	100	WIR-1
PCB-01	10	PCB-1
OTHR-01	10	OTHR-1

Assembly Instructions

1. Prepare the PCB by cleaning and tinning the pads.
2. Solder the components in the order listed in the Material Requirements table.
3. Check the polarity and orientation of all components.
4. Verify the connections and solder joints.
5. Perform a functional test of the assembly.

Assembly Diagram

Assembly Notes

1. Check all components for correct values and tolerances.
2. Ensure proper polarity for diodes and transistors.
3. Use appropriate soldering techniques for all connections.
4. Verify the PCB layout and component placement.
5. Perform a functional test after assembly.

Material Requirements

Part No.	Quantity	Material
SW-01	10	SW-1
CON-01	5	CON-1
RES-01	20	RES-1
DI-01	10	DI-1
TR-01	5	TR-1
IC-01	10	IC-1
IND-01	5	IND-1
CAP-01	10	CAP-1
WIR-01	100	WIR-1
PCB-01	10	PCB-1
OTHR-01	10	OTHR-1

Assembly Instructions

1. Prepare the PCB by cleaning and tinning the pads.
2. Solder the components in the order listed in the Material Requirements table.
3. Check the polarity and orientation of all components.
4. Verify the connections and solder joints.
5. Perform a functional test of the assembly.

Assembly Diagram

Assembly Notes

1. Check all components for correct values and tolerances.
2. Ensure proper polarity for diodes and transistors.
3. Use appropriate soldering techniques for all connections.
4. Verify the PCB layout and component placement.
5. Perform a functional test after assembly.

Material Requirements

Part No.	Quantity	Material
SW-01	10	SW-1
CON-01	5	CON-1
RES-01	20	RES-1
DI-01	10	DI-1
TR-01	5	TR-1
IC-01	10	IC-1
IND-01	5	IND-1
CAP-01	10	CAP-1
WIR-01	100	WIR-1
PCB-01	10	PCB-1
OTHR-01	10	OTHR-1

Assembly Instructions

1. Prepare the PCB by cleaning and tinning the pads.
2. Solder the components in the order listed in the Material Requirements table.
3. Check the polarity and orientation of all components.
4. Verify the connections and solder joints.
5. Perform a functional test of the assembly.

Assembly Diagram

Assembly Notes

1. Check all components for correct values and tolerances.
2. Ensure proper polarity for diodes and transistors.
3. Use appropriate soldering techniques for all connections.
4. Verify the PCB layout and component placement.
5. Perform a functional test after assembly.

Material Requirements

Part No.	Quantity	Material
SW-01	10	SW-1
CON-01	5	CON-1
RES-01	20	RES-1
DI-01	10	DI-1
TR-01	5	TR-1
IC-01	10	IC-1
IND-01	5	IND-1
CAP-01	10	CAP-1
WIR-01	100	WIR-1
PCB-01	10	PCB-1
OTHR-01	10	OTHR-1

Assembly Instructions

1. Prepare the PCB by cleaning and tinning the pads.
2. Solder the components in the order listed in the Material Requirements table.
3. Check the polarity and orientation of all components.
4. Verify the connections and solder joints.
5. Perform a functional test of the assembly.

Assembly Diagram

Assembly Notes

1. Check all components for correct values and tolerances.
2. Ensure proper polarity for diodes and transistors.
3. Use appropriate soldering techniques for all connections.
4. Verify the PCB layout and component placement.
5. Perform a functional test after assembly.

Material Requirements

Part No.	Quantity	Material
SW-01	10	SW-1
CON-01	5	CON-1
RES-01	20	RES-1
DI-01	10	DI-1
TR-01	5	TR-1
IC-01	10	IC-1
IND-01	5	IND-1
CAP-01	10	CAP-1
WIR-01	100	WIR-1
PCB-01	10	PCB-1
OTHR-01	10	OTHR-1

Assembly Instructions

1. Prepare the PCB by cleaning and tinning the pads.
2. Solder the components in the order listed in the Material Requirements table.
3. Check the polarity and orientation of all components.
4. Verify the connections and solder joints.
5. Perform a functional test of the assembly.

Assembly Diagram

Assembly Notes

1. Check all components for correct values and tolerances.
2. Ensure proper polarity for diodes and transistors.
3. Use appropriate soldering techniques for all connections.
4. Verify the PCB layout and component placement.
5. Perform a functional test after assembly.

Material Requirements

Part No.	Quantity	Material
SW-01	10	SW-1
CON-01	5	CON-1
RES-01	20	RES-1
DI-01	10	DI-1
TR-01	5	TR-1
IC-01	10	IC-1
IND-01	5	IND-1
CAP-01	10	CAP-1
WIR-01	100	WIR-1
PCB-01	10	PCB-1
OTHR-01	10	OTHR-1

Assembly Instructions

1. Prepare the PCB by cleaning and tinning the pads.
2. Solder the components in the order listed in the Material Requirements table.
3. Check the polarity and orientation of all components.
4. Verify the connections and solder joints.
5. Perform a functional test of the assembly.

Assembly Diagram

Assembly Notes

1. Check all components for correct values and tolerances.
2. Ensure proper polarity for diodes and transistors.
3. Use appropriate soldering techniques for all connections.
4. Verify the PCB layout and component placement.
5. Perform a functional test after assembly.

Material Requirements

Part No.	Quantity	Material
SW-01	10	SW-1
CON-01	5	CON-1
RES-01	20	RES-1
DI-01	10	DI-1
TR-01	5	TR-1
IC-01	10	IC-1
IND-01	5	IND-1
CAP-01	10	CAP-1
WIR-01	100	WIR-1
PCB-01	10	PCB-1
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