```
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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||||||||222|||||222|11111|||11111|||11111|||||||222||||
||||2222222|2222222|||111|||||111|||||111|||2222222||||
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||||2222222|2222222|1111111|1111111|1111111|2222222||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

||| **BLOCCO C** ||||||||||||||||||||||||||||||| [1506 mA]

/**Fade**_____

```
       A <--
       B <-- AUX-O Lubadh (Doepfer Rosso)
    FADE <--
     VOL <--
     OUT --> AUDIO MF-102 (Doepfer Nero)
```

/**Diod**_____

```
   INPUT <-- AUDIO FM-102 (TipTop Rosso)
    CV 1 <--
    CV 2 <--
     OUT --> IN Pan (TipTop Verde)
```

/**Pan**_____

```
      IN <-- OUT Diod (TipTop Verde)
    CV 1 <--
    CV 2 <--
    2 CV <--
   OUT L --> AUDIO FM-104Z-A (TipTop Verde)
   OUT R --> AUDIO FM-104Z-B (TipTop Rosso)
```

/**Cassa CV**_____

```
     IN1 <-- 1 Patch-bay [C] (Doepfer Nero)
     IN2 <-- 2 Patch-bay [C] (Doepfer Nero)
 CV IN F <-- OUT A S+H (Doepfer Rosso)
 CV IN R <-- OUT B S+H (Doepfer Grigio)
     OUT --> M-1 Vortices (Doepfer Rosso)
```

/**Arradio-A**_____

```
      IN <-- Arradio-B (TipTop Verde)
     OUT --> I-Interface-A (Doepfer Giallo)
```

/**I-Interface-A**_____

```
      IN <-- Arradio-A (Doepfer Giallo)
```

```
     OUT --> L-IN Lubadh (TipTop Rosso)
    TRIG --> L-RETRIG Lubadh (TipTop Rosso)
             3 Patch-bay [C] (Doepfer Giallo)
    GATE --> L-REC Lubadh (TipTop Verde)
 ENV (-) --> MIX MF-104Z-A (TipTop Verde)
 ENV (+) --> FB MF-104Z-A (TipTop Verde)
```

/**Arradio-B**_____

```
      IN <-- Arradio-A (TipTop Verde)
             OUT SEQ2 (Doepfer Giallo)
     OUT --> I-Interface-B (Doepfer Giallo)
```

/**I-Interface-B**_____

```
      IN <-- Arradio-B (Doepfer Giallo)
     OUT --> R-IN Lubadh (TipTop Rosso)
    TRIG --> R-RETRIG Lubadh (TipTop Verde)
             4 Patch-bay [C] (Doepfer Giallo)
    GATE --> R-REC Lubadh (TipTop Verde)
 ENV (-) --> MIX MF-104Z-B (TipTop Verde)
 ENV (+) --> FB MF-104Z-B (TipTop Verde)
```

/**SEQ2**_____

```
  CLK IN <-- LFO MF-102 (TipTop Verde)
  CV OUT --> FREQ MF-102 (TipTop Verde)
             Arradio-A (Doepfer Giallo)
             Arradio-B (TipTop Verde)
```

/**Instruo**_____

```
    L-IN <-- OUT I-Interface-A (TipTop Rosso)
 L-SPEED <-- OUT A AVert (Doepfer Giallo)
L-LENGTH <--
 L-START <--
   L-CLK <--
   L-CLK --> TRIG A S+H (TipTop Verde)
             5 Patch-bay (Doepfer Nero)
L-RETRIG <-- TRIG I-Interface-A (TipTop Rosso)
   L-REC <-- GATE I-Interface-A (TipTop Verde)
 L-ERASE <-- 7 Patch-bay (Doepfer Giallo)
   L-OUT --> L-1 Vortices (Doepfer Rosso)
    R-IN <-- OUT I-Interface-B (TipTop Rosso)
 R-SPEED <-- OUT B AVert (Doepfer Giallo)
R-LENGTH <--
 R-START <--
   R-CLK <--
   R-CLK --> TRIG B S+H (TipTop Verde)
             6 Patch-bay (Doepfer Giallo)
```

```
R-RETRIG <-- TRIG I-Interface-B (TipTop Rosso)
   R-REC <-- GATE I-Interface-B (TipTop Verde)
 R-ERASE <-- 8 Patch-bay (Doepfer Giallo)
   R-OUT --> R-1 Vortices (Doepfer Rosso)
   AUX-I <--
AUX-I CV <--
   AUX-O --> IN A S+H (Koma Att.)
             IN B S+H (TipTop Verde)
             B Fade (Doepfer Rosso)
AUX-O CV <--
```

/**AVert**_____

```
    IN A <-- OUT A S+H (TipTop Verde)
   OUT A --> TIME MF-104Z-A (TipTop Giallo)
             L-SPEED Lubedh (Doepfer Giallo)
             LFO MF-102 (Doepfer Nero)
    IN B <-- OUT B S+H (TipTop Verde)
   OUT B --> TIME MF-104Z-B (TipTop Verde)
             L-SPEED Lubedh (Doepfer Giallo)
             RATE MF-102 (Doepfer Nero)
```

/**S+H**_____

```
    IN A <-- AUX-O Lubedh (Koma Att.)
             IN B S+H (TipTop Verde)
  TRIG A <-- L-CLK Instruo (TipTop Verde)
             6 Patch-bay [C] (Doepfer Giallo)
   OUT A --> IN A AVert (TipTop Verde)
             FREQ Cassa CV (Doepfer Rosso)
    IN B <-- IN A S+H (TipTop Verde)
  TRIG B <-- R-CLK Instruo (TipTop Verde)
             7 Patch-bay [C] (Doepfer Giallo)
   OUT B --> IN A AVert (TipTop Verde)
             RESO Cassa CV (Doepfer Grigio)
```

/**Quad Inverter [C]**_____

```
   1 (+) <--
   1 (-) -->
   2 (+) <--
   2 (-) -->
   3 (+) <--
   3 (-) -->
   4 (+) <--
   4 (-) -->
```

/**Unity [C]**_____

```
       1 <--
```

```
       2 <--
       3 <--
       A -->
       4 <--
       5 <--
       6 <--
       B -->
```

/**Patch-bay [C]**_____

```
       1 --> IN1 Cassa CV (Doepfer Nero)
       2 --> IN2 Cassa CV (Doepfer Nero)
       3 <-- TRIG I-Interface-A (Doepfer Giallo)
       4 <-- TRIG I-Interface-B (Doepfer Giallo)
       5 <-- TRIG A S+H (Doepfer Nero)
       6 <-- TRIG B S+H (Doepfer Giallo)
       7 --> L-ERASE Lubadh (Doepfer Giallo)
       8 --> R-ERASE Lubadh (Doepfer Giallo)
```

/**MF-104Z-A**_____

```
   AUDIO <-- OUT L Pan (TipTop Verde)
    TIME <-- OUT A AVert (TipTop Giallo)
             LFO MF-102 (Doepfer Giallo)
     MIX <-- ENV (-) I-Interface-A (TipTop Verde)
      FB <-- ENV (+) I-Interface-A (TipTop Verde)
   DELAY -->
     MIX --> L-2 Vortices (Doepfer Rosso)
```

/**MF-102**_____

```
   AUDIO <-- OUT Fade (Doepfer Nero)
     LFO <-- TIME MF-104Z-A (Doepfer Giallo)
    RATE <-- TIME MF-104Z-B (Doepfer Nero)
     MIX <--
    FREQ <-- CV OUT SEQ2 (TipTop Verde)
 CARRIER <--
 CARRIER -->
     LFO --> CLK IN SEQ2 (TipTop Verde)
   AUDIO --> INPUT Diod (TipTop Rosso)
```

/**MF-104Z-B**_____

```
   AUDIO <-- OUT R Pan (TipTop Giallo)
    TIME <-- OUT B AVert (TipTop Verde)
             LFO MF-102 (Doepfer Nero)
     MIX <-- ENV (-) I-Interface-B (TipTop Verde)
      FB <-- ENV (+) I-Interface-B (TipTop Verde)
   DELAY -->
     MIX --> R-2 Vortices (Doepfer Rosso)
```

||| **BLOCCO E** ||||||||||||||||||||||||||||||| [1584 mA]

/**Nebulæ**_____

```
  RECALL <--
  FREEZE <-- RATE MF-108M (Doepfer Giallo)
             SPEED CV Matter (TipTop Verde)
             RATE MF-104M ('Y' Blu)
             RATE MF-103 ('Y' Blu)
             GATE Ears (TipTop Rosso)
             4 Patch-bay (Doepfer Nero)
    NEXT <--
   SPEED <-- TIME MF-108M (Befaco Nero)
             TIME MF-104M (TipTop Verde)
             1 (-) Quad Inverter [E] (Doepfer Grigio)
  1V/OCT <--
     MIX <--
  G.SIZE <--
  G.RATE <--
 L.START <--
  L.SIZE <--
     OUT --> IN Ears (TipTop Giallo)
             M-2 Vortices (Doepfer Rosso)
```

/**Mannequins**_____

```
    FREQ <-- 4 (-) Quad Inverter [E] (Doepfer Grigio)
 QUALITY <--
    SPAN <-- 1 (+) Quad Inverter [E] (Doepfer Grigio)
      FM <--
    HIGH <-- MIX MF-104M (TipTop Rosso)
  CENTER <-- PHASER Mf-103 (TipTop Verde)
     LOW <-- MIX MF-108M (TipTop Verde)
     ALL <--
    HIGH --> R-3 Vortices (Doepfer Rosso)
  CENTER --> M-4 Vortices (Doepfer Rosso)
     LOW --> L-3 Vortices (Doepfer Rosso)
     ALL -->
```

/**Matter**_____

```
    1 CV <-- 6 A/B Switches (Doepfer Grigio)
     (-) --> 1 (R) RESIST (Dupont Rosso)
     (+) --> 1 (L) RESIST (Dupont Rosso)
  7 TRG. <-- 1 (C) RESIST (Dupont Rosso)

    2 CV <-- 5 A/B Switches (Doepfer Grigio)
     (-) --> 2 (R) RESIST (Dupont Arancio)
     (+) --> 2 (L) RESIST (Dupont Arancio)
```

```
 17 TRG. <-- 2 (C) RESIST (Dupont Arancio)

    3 CV <-- 4 A/B Switches (Doepfer Grigio)
     (-) --> 3 (R) RESIST (Dupont Giallo)
     (+) --> 3 (L) RESIST (Dupont Giallo)
 14 TRG. <-- 3 (C) RESIST (Dupont Giallo)

    4 CV <-- 3 A/B Switches (Doepfer Grigio)
     (-) --> 4 (C) RESIST (Dupont Verde)
  9 TRG. --> 4 (L) RESIST (Dupont Verde)
 20 TRG. --> 4 (R) RESIST (Dupont Verde)
     (+) -->

    5 CV <-- 2 A/B Switches (Doepfer Grigio)
     (-) --> 5 (L) RESIST (Dupont Blu)
     (+) --> 5 (R) RESIST (Dupont Blu)
  3 TRG. <-- 5 (C) RESIST (Dupont Blu)

    6 CV <-- OUT Kick (TipTop Verde)
     (-) --> 6 (C) RESIST (Dupont Bianco)
  6 TRG. <-- 6 (L) RESIST (Dupont Bianco)
 12 TRG. <-- 6 (R) RESIST (Dupont Bianco)
     (+) -->

    7 CV <-- OUT EARS (TipTop Giallo)
     (-) --> 7 (R) RESIST (Dupont Grigio)
     (+) --> 7 (L) RESIST (Dupont Grigio)
 17 TRG. <-- 7 (C) RESIST (Dupont Grigio)

    8 CV <-- ENV EARS (TipTop Giallo)
     (-) --> 8 (C) RESIST (Dupont Nero)
 20 TRG. <-- 8 (L) RESIST (Dupont Nero)
 18 TRG. <-- 8 (R) RESIST (Dupont Nero)
     (+) -->

 MOD (-) --> 2 TRG. (Dupont Viola)
 MOD (+) --> 6 TRG. (Dupont Viola)

SPEED CV <-- RATE MF-108M (TipTop Verde)
             RATE MF-104M ('Y' Blu)
             RATE MF-103 ('Y' Blu)
             GATE Ears (TipTop Rosso)
 TRIG CV <--
  MOD CV --> 4 (+) Quad Inverter [E] (TipTop Rosso)
                   SWEEP-2 MF-103 (Doepfer Giallo)
   AUDIO --> M-3 Vortices (Doepfer Rosso)
```

/**Kick**_____

```
    TRIG <-- 1 A/B Switches (Doepfer Rosso)
```

```
    TONE <-- RESO MF-103 (Doepfer Nero)
             4 (-) Quad Inverter [E] (TipTop Verde)
   DECAY <-- 3 (-) Quad Inverter [E] (TipTop Verde)
   V/OCT <--
     OUT --> 5 CV Matter (TipTop Verde)
```

/**Div**_____

```
      IN <-- GATE Rnd (TipTop Verde)
  RATE-1 <--
   OUT-1 <-- 1 Patch-bay (Doepfer Nero)
  RATE-2 <-- 5 Patch-bay (Doepfer Giallo)
   OUT-2 <-- 2 Patch-bay (Doepfer Nero)
```

/**Rnd**_____

```
   CLOCK <--
    GATE --> IN Div (TipTop Verde)
             1B A/B Switches (Doepfer Grigio)
  SMOOTH --> 1 (+) Quad Inverter [E] (TipTop Rosso)
                   FB MF-104M (Doepfer Nero)
                   FB MF-108M (TipTop Verde)
                   SPAN Sisters (Doepfer Grigio)
   QUANT --> 2 (+) Quad Inverter [E] (TipTop Verde)
                   3 Patch-bay (Doepfer Nero)
                   2B A/B Switches (Doepfer Grigio)
```

/**Turing Machine**_____

```
   CLOCK <-- 6 Patch-bay (Doepfer Giallo)
      CV <-- 2 (-) Quad Inverter [E] (TipTop Verde)
   PULSE -->
   NOISE -->
     OUT --> 3 (+) Quad Inverter [E] (TipTop Verde)
                   2A A/B Switches (Doepfer Grigio)
```

/**Pulses**_____

```
       1 --> 6A A/B Switches (Doepfer Grigio)
       2 --> 4A A/B Switches (Doepfer Grigio)
       3 -->
       4 --> 5A A/B Switches (Doepfer Grigio)
       5 --> 4B A/B Switches (Doepfer Grigio)
       6 -->
       7 --> 3A A/B Switches (Doepfer Grigio)
     1+2 --> 6B A/B Switches (Doepfer Grigio)
     2+4 --> 5B A/B Switches (Doepfer Grigio)
     4+7 --> 3B A/B Switches (Doepfer Grigio)
 1+2+4+7 --> 1A A/B Switches (Doepfer Grigio)
```

/**Quad Inverter [E]**_____

```
1 (+) <-- SMOOTH Rnd (TipTop Rosso)
          SPAN Sisters (Doepfer Grigio)
1 (-) --> TIME MF-104M (Doepfer Grigio)
          TIME MF-108M (TipTop Verde)
          SPEED Nebulæ (Befaco Nero)
2 (+) <-- QUANT Rnd (TipTop Verde)
          2B A/B Switches (Doepfer Grigio)
2 (-) --> CV Turing Machine (TipTop Verde)
3 (+) <-- OUT Turing Machine (TipTop Verde)
3 (-) --> DECAY Kick (TipTop Verde)
4 (+) <-- MOD CV Matter (TipTop Rosso)
          SWEEP-2 MF-103 (Doepfer Giallo)
4 (-) --> RESO MF-103 (TipTop Verde)
          FREQ Sisters (Doepfer Grigio)
          TONE Kick (Doepfer Nero)
```

/**Ears**_____

```
  IN <-- Nebulœ (TipTop Giallo)
 OUT --> 7 CV Matter (TipTop Giallo)
 ENV --> 8 CV Matter (TipTop Giallo)
GATE --> RATE MF-103 (TipTop Rosso)
         RATE MF-104M ('Y' Blu)
         SPEED CV Matter ('Y' Blu)
         RATE MF-108M (TipTop Verde)
         FREEZE Nebulæ (Doepfer Giallo)
```

/**Patch-bay**_____

```
1 <-- OUT-1 Div (Doepfer Nero)
2 <-- OUT-2 Div (Doepfer Nero)
3 <-- QUANT Rnd (Doepfer Nero)
4 <-- GATE Ears (Doepfer Nero)
5 --> RATE-2 Div (Doepfer Giallo)
6 --> CLOCK Turing Machine (Doepfer Giallo)
```

/**MF-108M**_____

```
AUDIO <-- AUX MF-103 (Doepfer Giallo)
          AUDIO MF-104M (TipTop Verde)
 TIME <-- TIME MF-104M (TipTop Verde)
          1 (-) Quad Inverter [E] (Doepfer Grigio)
   FB <-- FB MF-104M (TipTop Verde)
          SMOOTH Rnd (Doepfer Nero)
  LFO <-- LFO MF-104M (TipTop Verde)
          LFO MF-103 (Befaco Nero)
 RATE <-- SPEED CV Matter (TipTop Verde)
          FREEZE Nebulæ (Doepfer Giallo)
```

```
             RATE MF-104M ('Y' Blu)
             RATE MF-103 ('Y' Blu)
             GATE Ears (TipTop Rosso)
   DELAY -->
     MIX --> HIGH Sisters (TipTop Verde)
             AUDIO MF-104M (Doepfer Giallo)
```

/**MF-104M**_____

```
   AUDIO <-- AUDIO MF-108M (TipTop Verde)
             AUX MF-103 (Doepfer Giallo)
    TIME <-- TIME MF-108M (TipTop Verde)
             1 (-) Quad Inverter [E] (Doepfer Grigio)
      FB <-- FB MF-108M (TipTop Verde)
             SMOOTH Rnd (Doepfer Nero)
     LFO <-- LFO MF-108M (TipTop Verde)
             LFO MF-103 (Befaco Nero)
    RATE <-- SPEED CV Matter ('Y' Blu)
             RATE MF-103 ('Y' Blu)
             GATE Ears (TipTop Rosso)
   DELAY -->
     MIX --> LOW Sisters (TipTop Rosso)
```

/**MF-103**_____

```
   AUDIO <-- X-FADES Vortices (Doepfer Rosso)
     LFO <--
    RATE <-- GATE Ears (TipTop Verde)
             RATE MF-104M ('Y' Blu)
             SPEED CV Matter ('Y' Blu)
             RATE MF-108M (TipTop Verde)
             FREEZE Nebulæ (Doepfer Giallo)
     LFO --> SWEEP-1 MF-103 (TipTop Verde)
             LFO MF-104M (Befaco Nero)
             LFO MF-108M (TipTop Verde)
    RESO <-- 4 (-) Quad Inverter [E] (TipTop Verde)
             TONE Kick (Doepfer Nero)
 SWEEP-1 <-- LFO MF-103 (TipTop Verde)
 SWEEP-2 <-- 4 (+) Quad Inverter [E] (Doepfer Giallo)
     AUX --> AUDIO MF-108M (TipTop Verde)
  PHASER --> CENTER Sisters (TipTop Verde)
```

||| **OUTBOARD** |||||||||||||||||||||||||||||||||||||||||||||

/**A/B Switches**_____

```
      1 --> TRIG Kick (Doepfer Grigio)
     1A <-- 1+2+4+7 PULSES (Doepfer Grigio)
     1B <-- GATE Rnd (Doepfer Grigio)
      2 --> 5 CV Matter (Doepfer Grigio)
```

```
     2A <-- OUT Turing Machine (Doepfer Grigio)
     2B <-- 2 (+) Quad Inverter [E] (Doepfer Grigio)
      3 --> 4 CV Matter (Doepfer Grigio)
     3A <-- 7 PULSES (Doepfer Grigio)
     3B <-- 4+7 PULSES (Doepfer Grigio)
      4 --> 3 CV Matter (Doepfer Grigio)
     4A <-- 2 PULSES (Doepfer Grigio)
     4B <-- 5 PULSES (Doepfer Grigio)
      5 --> 2 CV Matter (Doepfer Grigio)
     5A <-- 4 PULSES (Doepfer Grigio)
     5B <-- 2+4 PULSES (Doepfer Grigio)
      6 --> 1 CV Matter (Doepfer Grigio)
     6A <-- 1 PULSES (Doepfer Grigio)
     6B <-- 1+2 PULSES (Doepfer Grigio)
```

||| **REGIA** |||||||||||||||||||||||||||||||||||||| [581 mA]

/**AMP**_____

```
       A <--
       A -->
       B <--
       B -->
```

/**Vortices**_____

```
     M-1 <-- OUT Cassa CV (Doepfer Rosso)
   PAN-1 <--
     M-2 <-- OUT Nebulaœ (Doepfer Rosso)
  X-FADE <--
     M-3 <-- AUDIO Matter (Doepfer Rosso)
   PAN-4 <--
     M-4 <-- CENTER Sisters (Doepfer Rosso)
     L-1 <-- L-OUT Lubadh (Doepfer Rosso)
     R-1 <-- R-OUT Lubadh (Doepfer Rosso)
     L-2 <-- MIX MF-104Z-A (Doepfer Rosso)
     R-2 <-- MIX MF-104Z-R (Doepfer Rosso)
     L-3 <-- LOW Sisters (Doepfer Rosso)
     R-3 <-- HIGH Sisters (Doepfer Rosso)
   AUX-1 <--
   AUX-L <--
STEREO-L -->
STEREO-R -->
   AUX-R <--
   AUX-2 <--
MASTER-L --> EQ IN (YS Nero)
  MONO-L -->
  X-FADE --> AUDIO MF-103 (Doepfer Rosso)
  MONO-R -->
MASTER-R --> EQ IN (YS Rosso)
```

/**EQ**_____

```
   EQ IN <-- M-1+M-4 Unity (Doepfer Nero + YS Nero/Rosso)
  EQ OUT --> IN 1+2 Spring Reverb (YS Nero/Rosso)
 TILT IN <-- MIX+WET Spring Reverb (YS Nero/Rosso)
TILT OUT --> L+R MSCL [A2] (YS Nero/Rosso)
```

/**Spring Reverb**_____

```
    IN 1 <-- EQ OUT (YS Nero)
             L MSCL [A1] (TipTop Verde)
    CV 1 <--
    IN 2 <-- EQ OUT (YS Rosso)
             R MSCL [A1] (TipTop Verde)
    CV 2 <--
     MIX --> TILT IN (YS Nero)
  MIX CV <--
     WET --> TILT IN (YS Rosso)
```

/**MSCL [A1]**_____

```
      SC <--
    IN L <-- MASTER-L (YS Nero)
             IN 1 Spring Reverb (TipTop Verde)
    IN R <-- MASTER-R (YS Rosso)
             IN 2 Spring Reverb (TipTop Verde)
   OUT L --> LEFT Restyler (Jack/Jack)
   OUT R --> RIGHT Restyler (Jack/Jack)
```

/**MSCL [A2]**_____

```
      SC <--
    IN L <-- TILT OUT (YS Nero)
    IN R <-- TILT OUT (YS Rosso)
   OUT L --> LEFT Restyler (RCA/Jack)
   OUT R --> RIGHT Restyler (RCA/Jack)
```

/**V-MUTES**_____

```
     S-1 <--
     S-2 <--
     S-3 <--
     M-1 <--
     M-2 <--
     M-3 <--
     M-4 <--
```

||| **CAVI** |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

#36 TipTop Verde	#14 Doepfer Giallo	#1 Koma Att.
#9 " " Rosso	#13 " " Nero	#2 Befaco nero
#4 " " Giallo	#23 " " Grigio	#1 YM Blu
#0 " " Azzurro	#13 " " Rosso	#4 YS Nero/Rosso
#0 " " Nero	#0 " " Blu	#2 Jack/Jack
#0 " " Viola	#0 " " Verde	#2 RCA/Jack

#3 Dupont Rosso	#3 Dupont Blu	#2 Dp. Viola
#3 " " Arancio	#3 " " Bianco	
#3 " " Giallo	#3 " " Grigio	
#3 " " Verde	#3 " " Nero	

||||||||||||||||||||||||||||||||||||||||||||| **221112** ||