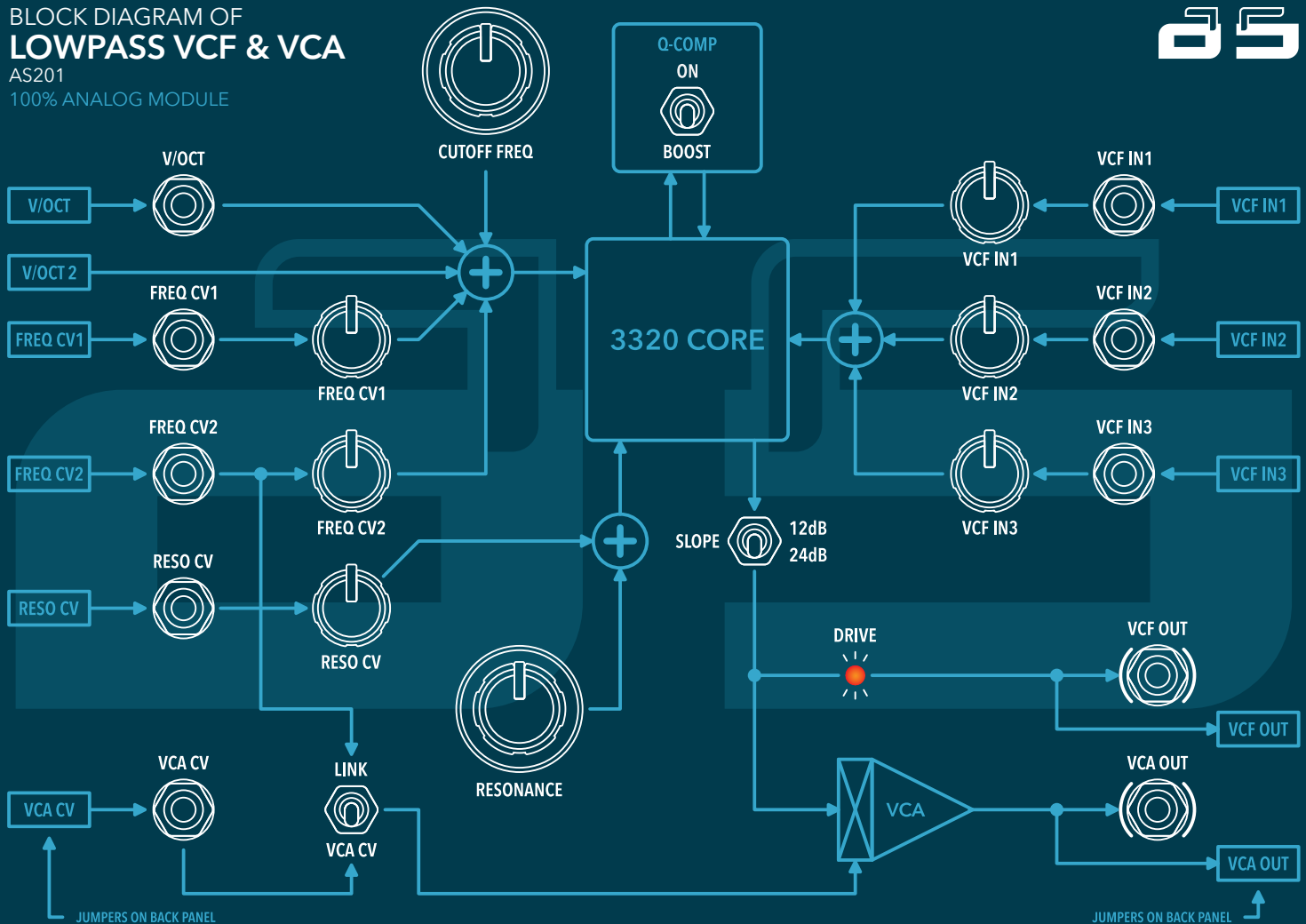
BLOCK DIAGRAM OF

LOWPASS VCF & VCA

AS201

100% ANALOG MODULE



FRONT PANEL OF

LOWPASS VCF & VCA

AS201

100% ANALOG MODULE

1. V/OCT CV input, range: 0V to +10V,
2. FREQ CV1 input, range: -10V to +10V
3. FREQ CV2 input, range: -10V to +10V
4. RESO CV input, range: 0V to +10V,
5. VCA CV input, range: 0V to +10V
6. VCF audio in 1, level: 10Vpp
7. VCF audio in2, level: 10Vpp
8. VCF audio in 3, level: 10Vpp
9. VCF audio out
10. VCA audio out
11. Freq CV1 depth: 0 to 100%
12. Freq CV2 depth: 0 to 100%
13. Reso CV depth: 0 to 100%
14. Level of VCF audio in 1: 0 to 100%
15. Level of VCF audio in 2: 0 to 100%
16. Level of VCF audio in 3: 0 to 100%

17. Cutoff freq potentiometer
18. Resonance potentiometer
19. VCF slope switch
20. VCF drive indicator
21. Q compensatin switch
22. FREQ CV2 to VCA CV switch

BACK PANEL OF

LOWPASS VCF & VCA

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100% ANALOG MODULE

1. Power bus connector IDC10
2. Initial tune
3. V/OCT scale trim
4. Multimeter probe pins
5. CV inputs from internal rails
6. VCF inputs from internal rails

   When no use of input pins, connect jumper between input and GND also between V/OCT IN and V/OCT REF pins
7. VCF & VCA outputs to internal rails

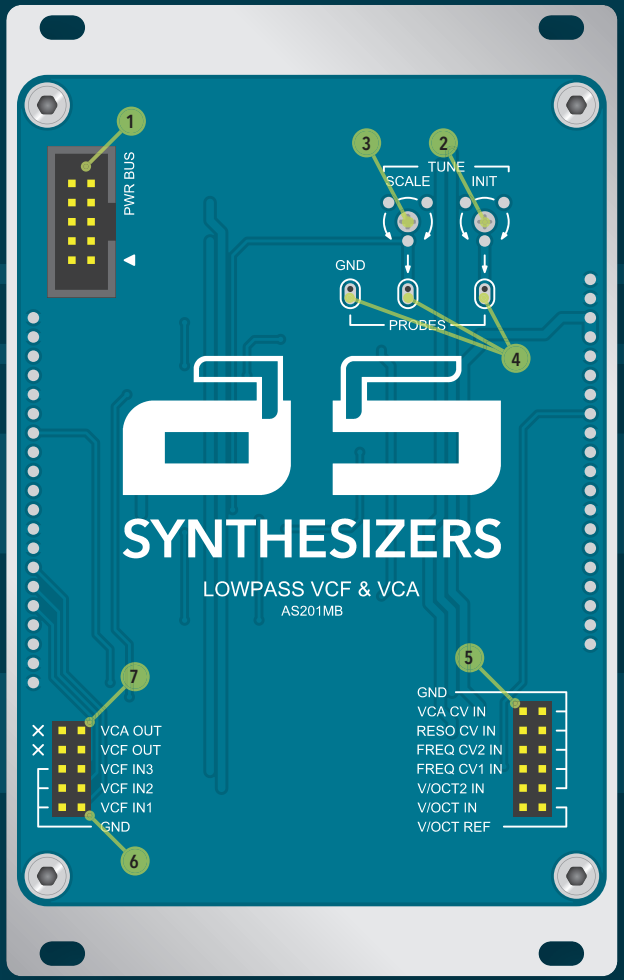
   Do not use jumpers on output pins, also do not connect to ground or power rails!

TECHNICAL SPECIFICATION:

- Module depth: 33mm
- Module width: 16HP (80.4mm)
- Module weight: 215g
- Connector type: 10P IDC Eurorack
- Power consumption:
  +12V / 60mA & 12V / 50mA
- Audio in & out: HQ Audio
- Audio in & out range: 10Vpp
- CV inputs: 0V to +10V or -5V to +5V

100% ANALOG

HQ AUDIO



CALIBRATION: The best results for filter range, the voltage on "SCALE" probe should be maintained -25mV and +155mV
This voltage difference is 180mV

1. Turn down all knobs into fully CCW position, disconnect cables from V/OCT input. Take care of the jumper to be connected between V/OCT IN and V/OCT REF pins on backside of the module
2. Power on your modular system, and wait a few minutes for warm up
3. Connect multimeter's GND probe to any GND pin, or connector. Next, connect multimeter's positive probe to "SCALE" probe
4. Turn Cutoff Freq knob into fully CCW position, measure +155mV
5. Turn Cutoff Freq knob into fully CW position, measure -25mV
6. In case you see different value, then turn "SCALE" trimmer until voltage difference between full CCW and full CW becomes 180mV
7. Now turn "INIT" trimmer until measure +155mV at full CCW of Cutoff Freq knob, and -25mV at full CW,
8. Enjoy