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Date: 01/11/2017

Subject: Inviting quotations for fabrications of PCBs with components mounted as per details given.

You are requested to quote for the fabrication of following PCBs with components mounted. The details of the PCBs are given in annexure I.

| S. no. | PCB | Quantity | Size restrictions |
|--------|------------------------------|----------|-------------------|
| 1. | PCB 1: Debounce circuit | 3 | 80mm x 80mm |
| 2. | PCB 2: Control and interlock | 3 | 120mm x 60mm |
| 3. | PCB 3: PWM | 3 | 60mm x 90mm |
| 4. | PCB 4: Timer | 3 | 60mm x 60mm |

- 1) For any clarifications the supplier can contact Sh. Vishnu Kumar Sharma, SO/E, APPD on any working day (Monday to Friday) on telephone Nos. 255920172 or email: aspatel@barc.gov.in.
- 2) fabricator has to give the Gerber file of all PCBs.
- 2) All the ICs must be in DIP package with IC bases.
- 3) All the PCB must be not exceed the size given in above table.
- 4) Payment for the above work will be made after satisfactory completion of job and on production of bill & advanced stamped receipt along with the copy of registration. No advance payment will be made for this work. Income-tax @2% & surcharge on Income-tax @15% will be deducted from the bill and a TDS (tax deducted at source) certificate will be issued as per Income-tax rules. Suppliers should submit their offers along with the following information.
(a) period of validity, terms & conditions of the offer, (b) Approximate period of completion of the task and (c) copy of the registration and income-tax clearance certificate.

Additional Information:

Your sealed quotation (in your letter head) including all details, like taxes to be paid, transport charges etc., duly indicating our reference number mentioned above, due date & time of opening of quotations on the envelop, may be sent to "**Head, APPD, Engg. Hall No.4, Trombay, MUMBAI-400085**", on or before, **13th October 2017**. It is requested that the tender must be sent by Speed-post. The quotations received after the due date & by FAX/email will not be considered.

Yours faithfully,

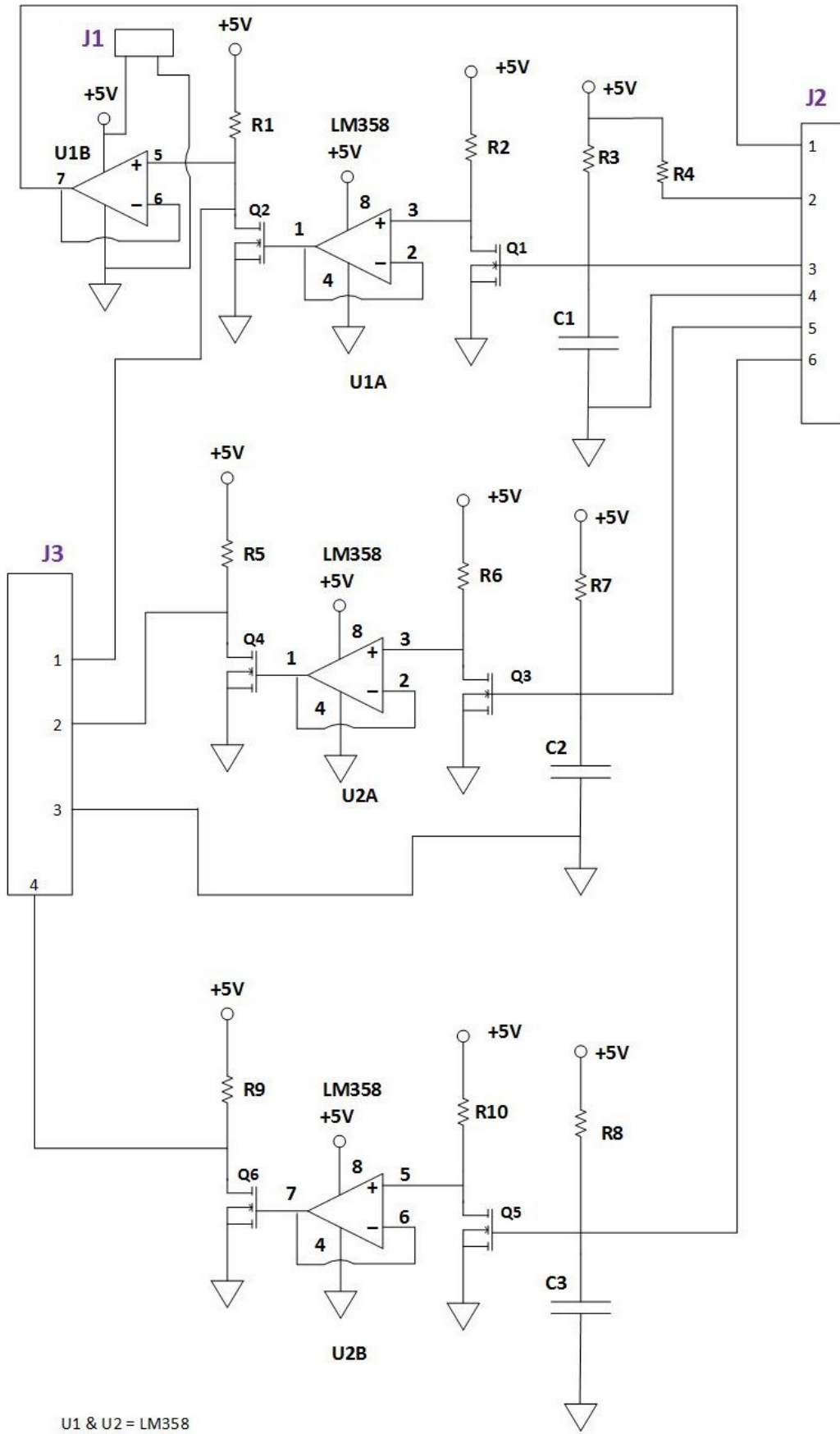
R. K. Rajawat
Head, APPD, BARC

Copy to: A.P.O., GSS Section, Central Complex, BARC.

Annexure I

1. PCB1: J1 is 2 pin phoenix connectors and J2 & J3 are 6 pin male FRC connectors.
2. PCB 1: U1 & U2 are IC LM 358.
3. PCB 1: Q1 to Q6 are mosfet BS170
4. PCB1: R1 to R 10 are 1k, $\frac{1}{4}$ watt resistors.
5. PCB 2: J1 and J2 are 6 pins phoenix connectors.
6. PCB 2: J3 and J4 are 3 pins phoenix connectors.
7. PCB 2: J5 and J6 are 6 pins and 8 pins FRC connectors respectively.
8. PCB 2: J7 is 2 pin phoenix connector.
8. PCB 2: J8 is 15 pin D connector.
9. PCB 2: All resistances in are of 1k, $\frac{1}{4}$ watt.
10. PCB 2: All capacitances in are 100nF, 20V.
11. PCB 3: J1 in (timer) is 6 pin FRC connector.
12. PCB 3: J2 in (timer) is 6 pin FRC connector.
13. PCB 3: All resistances are $\frac{1}{4}$ watt
14. PCB 4: J1 and J2 are phoenix connector.

PCB 1



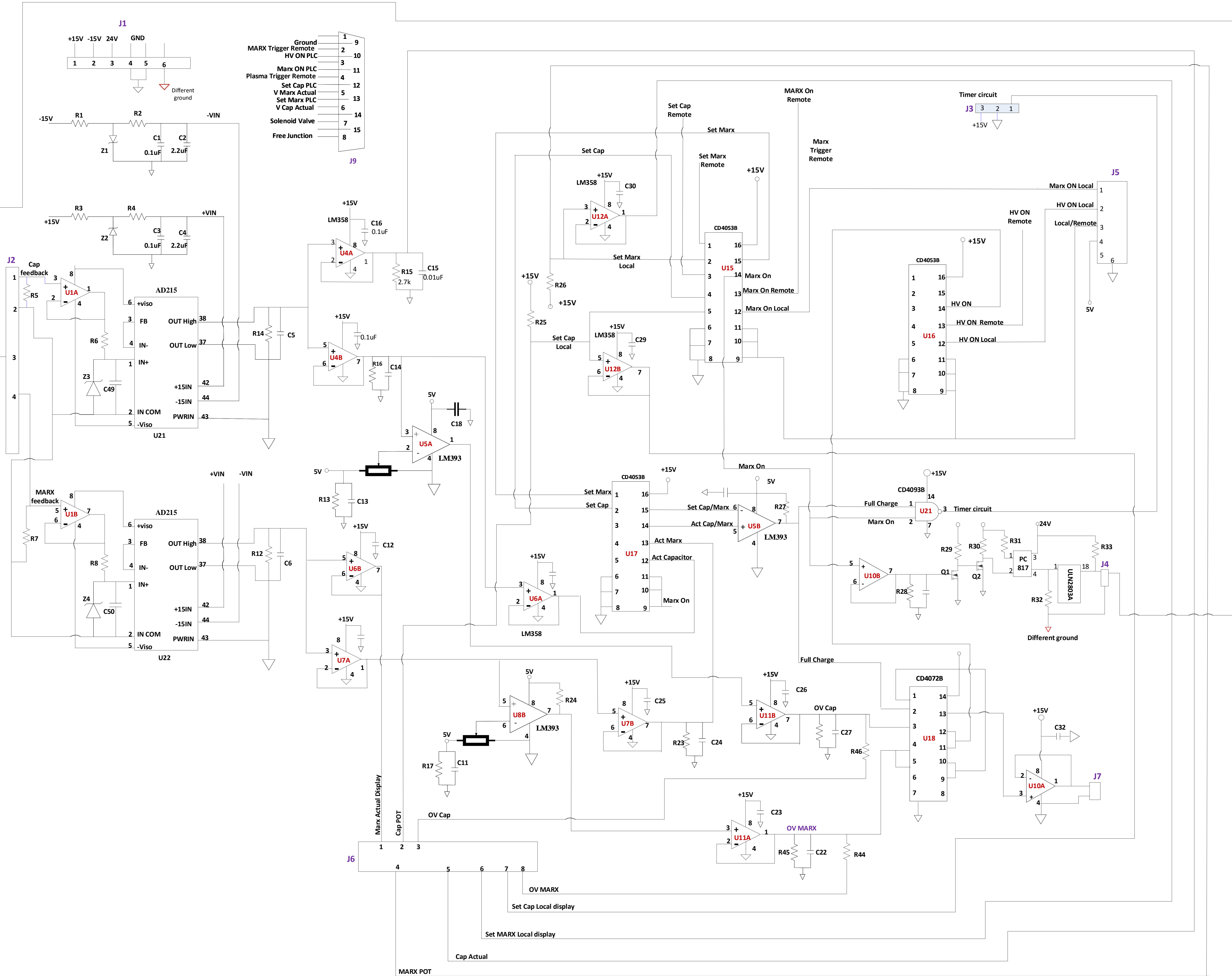
U1 & U2 = LM358
 R1 to R10 = 1k, ¼ watt resistor
 Q1 to Q6 = BS170 mosfet
 C1, C2, C3 = 0.1µF, 20V electrolytic capacitor

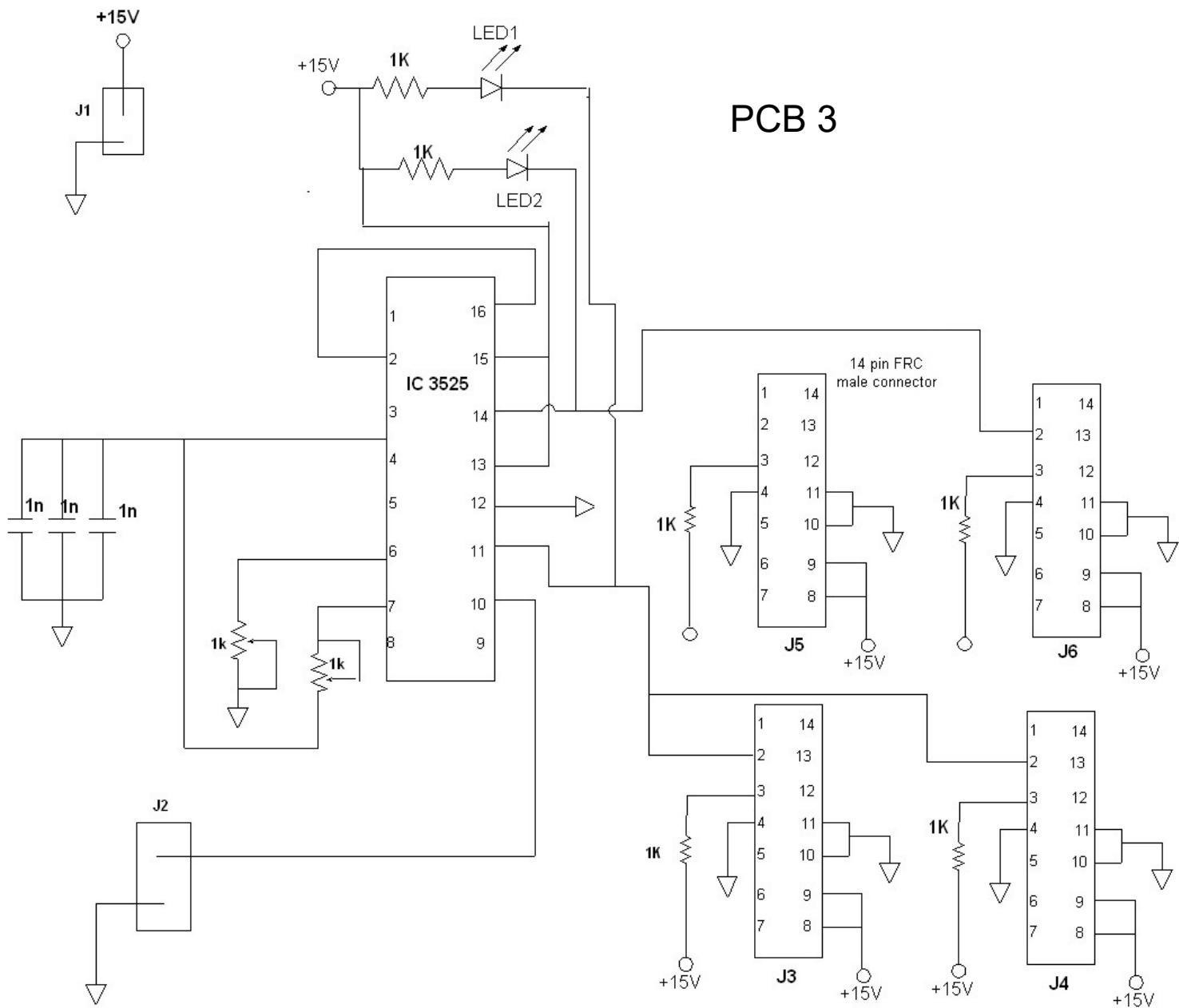
: 2 pin phoneix connector

J2 : 6 pin male FRC connector

J3 : 6 pin male FRC connector

PCB2





PCB 4

