



## TESTING PROCEDURE



**MAKE SURE FIRST REMOVE YOUR CONTROLLER IC**

- ➔ **CN2** ➔ APPLY 20 - 0V AC IN CN2 FROM STEP DOWN TRANSFORMER
- ➔ **CN5** ➔ APPLY 20 - 0V - AC IN CN5 FROM STEP DOWN TRANSFORMER
- ➔ **REG 1/REG 2** ➔ CHECK +15V DC IN REG 2 PIN NO.3 OUTPUT
  - ➔ CHECK +5V DC IN REG1 PIN NO.3 OUTPUT
  - ➔ CHECK LED4 IT MEANS + 5V, +15V DC SUPPLY IT'S PERFECT SMPS/INDICATION
- ➔ **REG3/REG4** ➔ CHECK +15V DC IN REG3 PIN NO3 OUTPUT.
  - ➔ CHECK - 9V DC IN REG4 PIN NO.2 OUTPUT
  - ➔ CHECK LED2, LED3, - 9V DC RESPECTIVELY [IT'S PERFECT SMPS INDICATION.
- ➔ **IC3,IC1, IC2** ➔ CHECK IC3 SMPS VOLTAGE IN PIN NO. 1 (+5V DC)
  - ➔ CHECK 1C1 SMPS VOLTAGE IN PIN NO. 1 (12V+ DC)
  - ➔ CHECK IC2 SMPS VOLTAGE IN PIN NO.& (+12V DC)
  - ➔ THEN APPLY 1C3, IC1, 1C2 IN ZICK ASS PER YOUR GIVE BILL OF MATERIAL



- ➡ **IGBT DRIVER CN4** ⚡ CHECK PWM WITH HELP O DSO G,S CHECK WITH CN4 WITH APPLY IGBT SWITCH G,E DRAIN.
- ⚡ WHEN WE USE FIRST TIME TRY DO APPLY THE CONNECTIONS OF IGBT THEN WE SEEN START TIME BUZZER WILL SOUND IN 2 NO. OF TIMES & AFTER 5-6 SECONDS DELAY THEN RED LED1 IS GLOWING AFTER WE APPLY TO IGBT WE SEEN NO MORE LED IS GLOWING IN PARTICULAR CIRCUIT.

- ➡ **CURRENT/VOLTAGE TM(TRIMPORT)** ⚡ WHEN WE APPLY DC VOLTAGE FEEL BACK IN CN6 WE NEED TO VARRY OUTPUT VOLTAGE WITH THE HELP OF
- ⚡ VR2 - WHEN WE APPLY CURRENT FROM SHUNT FEEDBACK IN CN3 WE NEED TO OUTPUT VOLTAGE WITH THE HELP OF VR1

## GENERAL ISSUES

- ➡ **FAILED IN IGBT DRIVER** ⚡ CHECK LED1 IS PERMANENTLY GLOW
- ⚡ WHEN WE APPLY IGBT CONNECTORS G/D/S
- ⚡ IT'S CLEARD IGBT DRIVER [MS79622] FAILED.
- ➡ **FAILED IN IGBT DRIVER** ⚡ CHECK D14 D15 ZENER DIODE 18V FAILED
- ⚡ LED1 IS PERMANENTLY GLOW WHEN WE
- ⚡ APPLY IGBT CONNECTION G/D/S
- ⚡ ITS CLEARED IGBT DRIVER FAILED WITH PARELLEL OF D14/D15
- ➡ **FAILED IN CURRENT VR1** ⚡ WHEN WE APPLY IN CIRCUIT ZICK FIXTURE
- ⚡ CHECK VARY CURRENT TRIMPOT BUT
- ⚡ CURRENT IS NOT VARY IT MEANS
- ⚡ MAXIMUM CHANCES TO FAILED VR1.

→ **FAILED IN CURRENT VR1** ← WHEN WE USE SUPPLY IN VOLTAGE ZICK  
FIXTURE  
← CHECK VARY VOLTAGE TRIMPOT BUT VOLTAGE  
IS NOT VARY  
IT'S MEANS MAXIMUM CHANCES TO FAILED VR2

→ **FAILED REG 2** ← CHECK 22V IN REG IN PIN NO.1 WE NOT TO SEEN  
4 VOLTAGE IN PIN NO.3  
← IT'S CLEAR WITH LED4 IS NOT GLOWING WHEN  
REG2 IS FAILED

→ **FAILED REG 1** ← CHECK 15V IS REG IN PIN NO .1 WE NOT TO SEEN  
& VOLTAGE IN PIN NO.3 IT'S CLEAR WITH LED4 IS  
NOT GLOWING WHEN REG1 IS FAILED

→ **FAILED REG 3** ← CHECK 22V IN REG3 IN PIN NO.1 WE NOT TO SEEN A  
VOLTAGE IN PIN NO.3 IT'S CLEAR WITH LED3 IS NOT  
GLOWING WHEN REG3 IS FAILED

→ **FAILED REG 3** ← CHECK 22V IN REG4 IN PIN NO.2 WE NOT TO  
SEEN & VOLTAGE IN PIN NO.3 & IT'S CLEAR WITH  
LED2 IS NOT GLOWING WHEN REG4 IS FAILED