

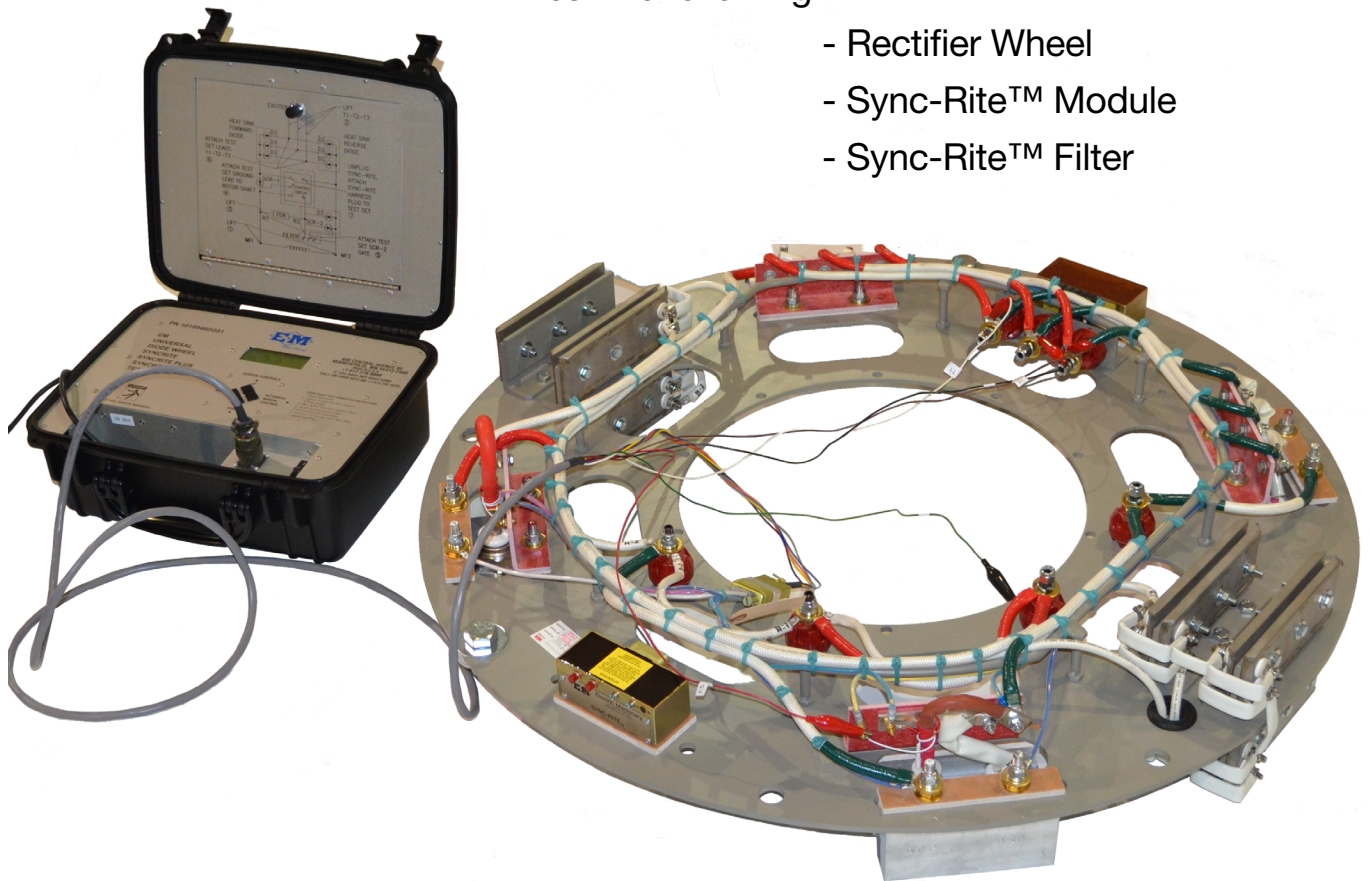
# WEG Electric Machinery Universal Tester Instructions

P/N #10189460G01



The WEG Electric Machinery Universal Tester is a piece of electrical testing equipment that will test the following:

- Rectifier Wheel
- Sync-Rite™ Module
- Sync-Rite™ Filter



The WEG Electric Machinery Universal Tester can perform a complete in-place test on all of the components of a WEG Electric Machinery rectifying circuit (diode wheel). By using the WEG Electric Machinery Universal Tester the user will receive a pass or fail indication on each item being tested.

(See Figure 1a. and Figure 1b.)

```
Diode Wheel Test
Test Passed
<-EXIT
```

Figure 1a.

```
D-Wheel Failure!
Failure:
SCR-1, SCR-2
<-EXIT
```

Figure 1b.



# WEG Electric Machinery Universal Tester Set Up



These instructions are a supplement to those printed on the inside of the Universal Tester. (See Figure 2)

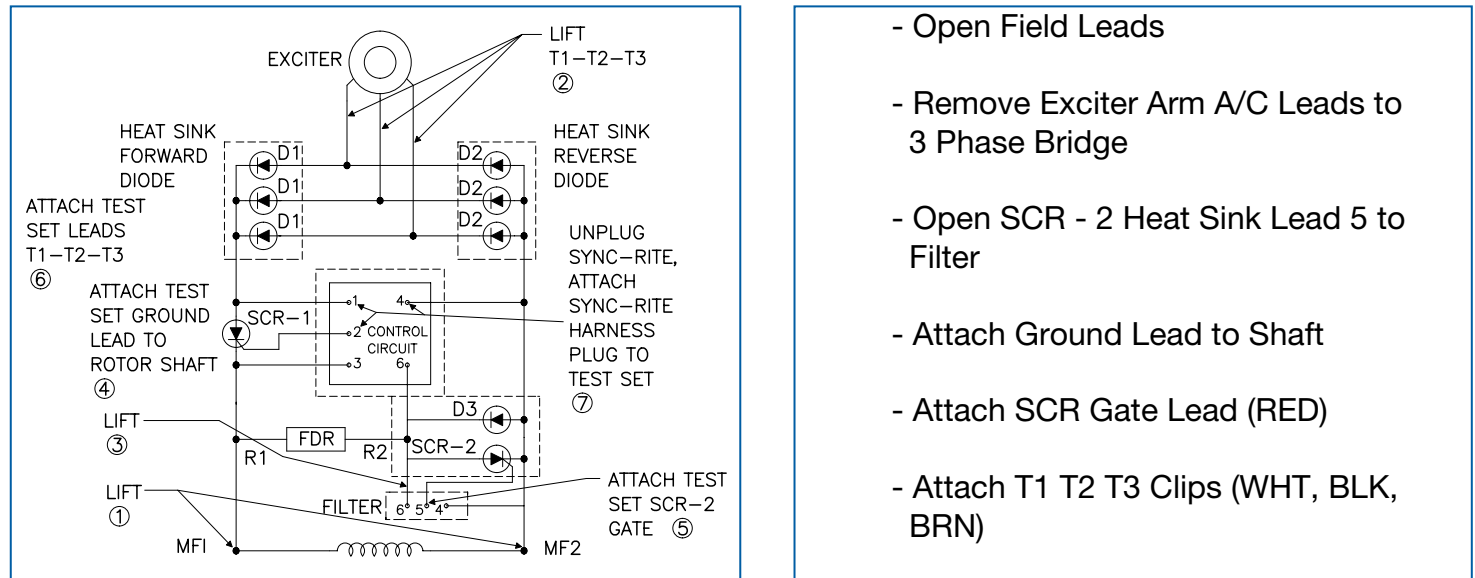


Figure 2

- Open Field Leads
- Remove Exciter Arm A/C Leads to 3 Phase Bridge
- Open SCR - 2 Heat Sink Lead 5 to Filter
- Attach Ground Lead to Shaft
- Attach SCR Gate Lead (RED)
- Attach T1 T2 T3 Clips (WHT, BLK, BRN)

**⚠ DANGER**



**ELECTRICAL HAZARD**  
DISCONNECT AND LOCK  
OUT ALL ELECTRICAL POWER  
BEFORE PERFORMING  
MAINTENANCE. FAILURE TO DO  
SO WILL RESULT IN SERIOUS  
INJURY OR DEATH.

**Caution:** Be very careful removing the lock nut from the stud as the stud may be made from copper and can be damaged very easily. Make sure the stud is very clean when the lock nut is being removed and installed.

1. **Open Field Leads.** These are the main field leads marked MF1 and MF2 and are connected to the diode wheel.
2. **Remove Exciter ARM A/C Leads to 3 Phase Bridge.** These are T1, T2, and T3 leads coming from the exciter rotor to the diode wheel. They need to be disconnected and isolated from the lead studs.
3. **Open SCR-2 Heat Sink Lead 6 to Filter.** From the Sync-Rite™ Filter a blue wire is connected to a heat stud that needs to be disconnected.
4. **Attach Ground Lead to Shaft.** The green lead is the ground lead that needs to be attached to the rotor shaft.
5. **Attach SCR Gate Lead (RED).** This lead needs to be attached to the SCR-2 gate lead (white wire from SCR).
6. **Attach T1 T2 T3 Clips (WHT, BLK, BRN).** These clips are to be attached to the studs where the 3 exciter leads have been removed from the diode wheel.
7. **Attach Test Plug.** This test plug needs to be plugged into the wiring harness of the Sync-Rite™.



# WEG Electric Machinery Universal Tester

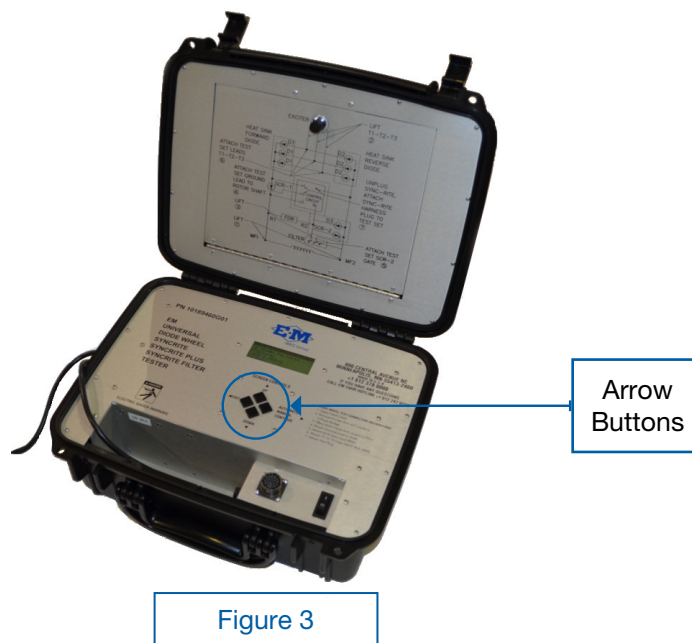


## Power Requirement:

- The WEG Electric Machinery Universal Tester is powered by 120 VAC.

## Operation:

1. Plug the Universal Tester into a 120 VAC power source.
2. Turn on the Universal Tester.
3. Touch the right arrow button (see Figure 3) to use it in user mode.
4. Touch the right arrow button to continue.
5. Touch the right arrow button to start the test.
6. Test results will be displayed.
7. When finished touch the left arrow button to exit.



## Sync-Rite™ Test:

1. Attach the appropriate included cable to the Universal Tester (one with plug in on one end).
2. Attach the plug into the Sync-Rite™.
3. Turn on the Universal Tester.
4. Touch the right arrow button for User Mode.
5. Touch the right arrow button to continue.
6. Touch the right arrow button to start the test.
7. The results will be displayed when the test is done as either “pass or fail”.
8. Touch the left arrow button to exit.



# WEG Electric Machinery Universal Tester

## Sync-Rite™ Filter:



1. Attach the appropriate cable that has the terminal strip on it to the Universal Tester.
2. The Sync-Rite™ Filter needs to be removed to connect the terminal strip to the Sync-Rite™ Filter.
3. Turn on the Universal Tester.
4. Touch the right arrow button for User Mode.
5. Touch the right arrow button to continue.
6. Touch the right arrow button to start the test.
7. The results will be displayed when the test is done as either “pass or fail”.
8. Touch the left arrow button to exit.

