

(Approved by AICTE, Affiliated to Anna University, Accredited by NAAC)

Dindigul - Palani Highway, Dindigul-624 002.

Department of Mechanical Engineering

Organizes

HANDS ON TRAINING PROGRAMME ON DISMANTLING AND ASSEMBLE OF ELECTRIC BIKE PARTS

on
01st February 2020, Saturday, 2.30 PM

@
Auditorium (Hostel Mess)

Industry Resource Persons

Mr.M.Sathasivam B.E. Lead – Sales and Service, Tirupathi E Power Motors

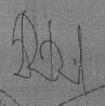
Mr.B.Venkatsurya M.Sc Manager Tirupathi E Power Motors

Presided Over by

Dr.Senthil Kumaran Durairaj Principal

Dr.M.Muthukannan ASP/Mech. Prof.S.Srinivasan, AP/Mech.

Programme Coordinator (s)



Dr.G.Sankaranarayanan HoD/Mech

Dr.D. SENTHIL BUMARAN, M.R., PA.D., PROP.



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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Department of Mechanical Engineering Dismantling and Assemble of Electric Bike Parts-Attendance

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Dr.M.Muthukannan ASP/Mech. Prof.S.Srinivasan, AP/Mech.

Programme Coordinator (s)

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Dr.D.SENTHIL KULLERAN, M.E., Ph.D., HOUS,

Principal

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Patent Road, Dinnigular 224,572





Dr.M. Muthukannan, Professor, Mechanical Department highlighting the Futuristic importance of electric vehicles.

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Dr.D.SENTHIL KUMARAN, M.B., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.



Mr.M.Sathasivam ,service engineer,Tirupathi E-Motors explained the disassemble and reassemble of Electric bike



Dr.D.SENTHIL KUMARAN, M.B., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Pol,
Palani Road, Dindigul - 624 002.

Student's Outcomes of the Hands on Training Programme

Latroduction

Electric bikes, commonly known as e-bikes, have gained immense popularity in recent years due to their eco-friendly nature, efficiency, and convenience. These innovative modes of transportation provide an excellent alternative to traditional bicycles or gas-powered vehicles. As a cyclist or e-bike enthusiast, understanding how to disassemble and reassemble an electric bike can be a valuable skill. Whether for maintenance, repair, or transport, knowing the ins and outs of your e-bike can save you time and money. In this essay, we will provide a comprehensive guide on the disassembly and reassembly of an electric bike.

Dismantling

Start by removing the battery: Unplug the battery from the bike and remove it to prevent electrical accidents. Store the battery in a cool, dry place to avoid damage.

Unplug and secure cables: Carefully unplug all electric cables and wires connected to the motor, controller, and display unit. Use cable ties or labels to mark each cable for easy reasuembly.

Remove the wheels: To access the motor and internal components, you'll need to remove the wheels. First, release the brakes and then use a wrench or a quick-release lever to detach the wheels from the frame.

Disconnect the motor: Disconnect the motor from the frame. Depending on your e-bike's design, you may need to remove the chain and the rear detailleur.

Disassemble the frame: Unscrew and remove the frame components. This step may vary depending on your e-bike's frame design, but it typically involves removing the bolts that hold the frame together.

Inspect and clean components: As you disassemble, inspect each part for wear, damage, or loose connections. Clean components, removing dirt, debris, and old lubricants.

Assembly

Assembling an electric bike is essentially the reverse of disassembly. However, it's essential to follow a systematic approach to ensure everything is properly reconnected and adjusted:

Dr.D.SENTHIL KUMARAN, M.B., Ph.D., (NUS)
Principal

SSM Institute of Engineering and Technology Entrathupath Village, Sindalagundu (Po), Palacu Read, Dindigul - 624002. Frame assembly: Start by reassembling the frame. Attach the frame components and tighten the bolts securely. Make sure everything aligns properly.

Motor and wheels: Reattach the motor to the frame and connect it to the cables. Reinstall the wheels, ensuring they are properly aligned and the brakes are functioning correctly.

Reconnect cables: Carefully reconnect all the cables to their respective connectors. Make sure the connections are secure and properly insulated to prevent electrical issues.

Battery installation: Reinstall the battery, ensuring it's securely in place and properly connected. Be cautious of the battery's orientation and any safety mechanisms that need to be engaged.

Test ride: Before you take your e-bike for a spin, perform a brief test ride to check if everything is functioning correctly. Pay attention to the brakes, motor, and electrical components.

Final adjustments: Fine-tune your e-bike by adjusting the brakes, gears, and motor settings if necessary. Refer to the manufacturer's instructions for any specific adjustments

Conclusion

Disassembling and reassembling an electric bike can be a rewarding experience, whether for maintenance, repair, or transportation. By following the safety guidelines and a systematic approach, you can confidently work on your e-bike and ensure it operates smoothly and efficiently. Remember that, in case of complex issues or if you are not confident in your abilities, it is always wise to consult a professional or refer to your e-bike's manufacturer for guidance and support.

Dr.D. SENTHIL KUMARAN, M.E., Ph.D., (NO.4)
Principal
Principal
SSM Institute of Engineering and Technology
Komerburotti village Sindelaguadu (Po),
Komerburotti village Sindelaguadu (Po).



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Feedback on HANDS ON TRAINING PROGRAMME ON

DISMANTLING AND ASSEMBLE OF ELECTRIC BIKE PARTS

Name of the Student: Arun Kurnar E

Register Number of the Student 922 117 114007

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Questionnaire

- 1. Were objectives of the session met?
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- · Partially agree
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- 2. Did this session meet your expectation?
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- 4. Did the expert encourage the interaction?
- · Completely agree
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- 5. Whether the information delivered at this program was highly beneficial?
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- 6. Overall the Programme content (1-Insufficent, 5-Excellent)



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Feedback on HANDS ON TRAINING PROGRAMME ON

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Name of the Student: K. ARUNSELVAN

Register Number of the Student 922117114 006

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Name of the Student: J. ANISH ROBERT

Register Number of the Student 922 117114005

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Principal O. D. SENTHIL KUMARAN, M.S., Ph.D., (MUS)

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