

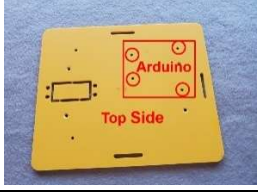



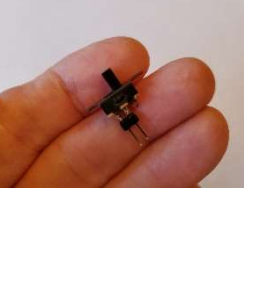



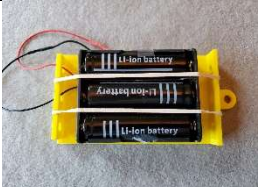











Check List

Robot Rover Parts Identification

JSU MARRS 3-D Printed Rover Workshop





Assembled Rover		All Rover Parts	
<input type="checkbox"/> Rover Platform		<input type="checkbox"/> Motor Side Brackets (Left and Right)	
<input type="checkbox"/> Drive Motors (4) with wires. Axles have flat sides to match wheel holes.		<input type="checkbox"/> Wheels (4) Note axle holes have flat sides. Align axle and wheel hole.	
<input type="checkbox"/> Rover On-Off Switch		<input type="checkbox"/> Power Cable Caution! Power cable must be connected correctly! <i>Non-repairable damage will result if improperly connected!</i>	
<input type="checkbox"/> Battery Holder Caution! Red lead is positive (+) and black lead is negative (-). Connect wires correctly! Insert batteries according to diagram inside holder.		<input type="checkbox"/> Battery Tray	
Assembled Battery Tray Caution! Do not "short" the red and black wires.		<input type="checkbox"/> Package of 4 Lithium-Ion batteries is included. Charge batteries before use.	

<input type="checkbox"/> Arduino UNO Microcontroller		<input type="checkbox"/> Rover Fastener Parts Package and Programming Cable	
<input type="checkbox"/> Arduino UNO Mounting Spacers (In Fastener Parts Package)		<input type="checkbox"/> <i>onn</i> Android Tablet – Arduino RC app installed	
<input type="checkbox"/> Bluetooth Radio - Each radio is individually named and programmed as: JSU_Rover_XX, Where the XX is the number is listed on the back of the radio of the module you received.		<input type="checkbox"/> Battery Charger: the battery can charge 1 or 2 18650 Batteries at one time. Charging indicator will stop flashing when charging is complete.	
<input type="checkbox"/> Motor Driver Board Caution -Pins on bottom of board are sharp!		Rover assembly tools – needle-nose pliers, screwdriver set and 3/32” Allen wrench.	

Check List

Camera Assembly Parts Identification

JSU MARRS 3-D Printed Rover Workshop

<p>Assembled Camera Unit</p>		<input type="checkbox"/> Camera Mount Base	
<input type="checkbox"/> Top Stepper Base Plate		<input type="checkbox"/> Top Stepper Mount	
<input type="checkbox"/> Camera Mount		<input type="checkbox"/> Top Stepper Limit Switches (long wires) and Bottom Stepper Limit switches (short wires)	
<input type="checkbox"/> Stepper Motors Note how connectors are oriented when connecting to driver board.		<input type="checkbox"/> Driver Board (2) (Red or Blue) Caution! Connect wires and connectors correctly!	
<input type="checkbox"/> Driver Board wires (Left and Right)		<input type="checkbox"/> Fastener Parts Package Hardware used to assemble camera mount.	
<p>Nail Polish (generic - used to “lock” Threads) Apply to nut and screw sparingly after tightening. Not included.</p>		<input type="checkbox"/> Miniature wireless video camera. Follow instruction for installing phone app – Android or Apple iOS – Scan QR code	