

4x4 SUPER CRAWLER

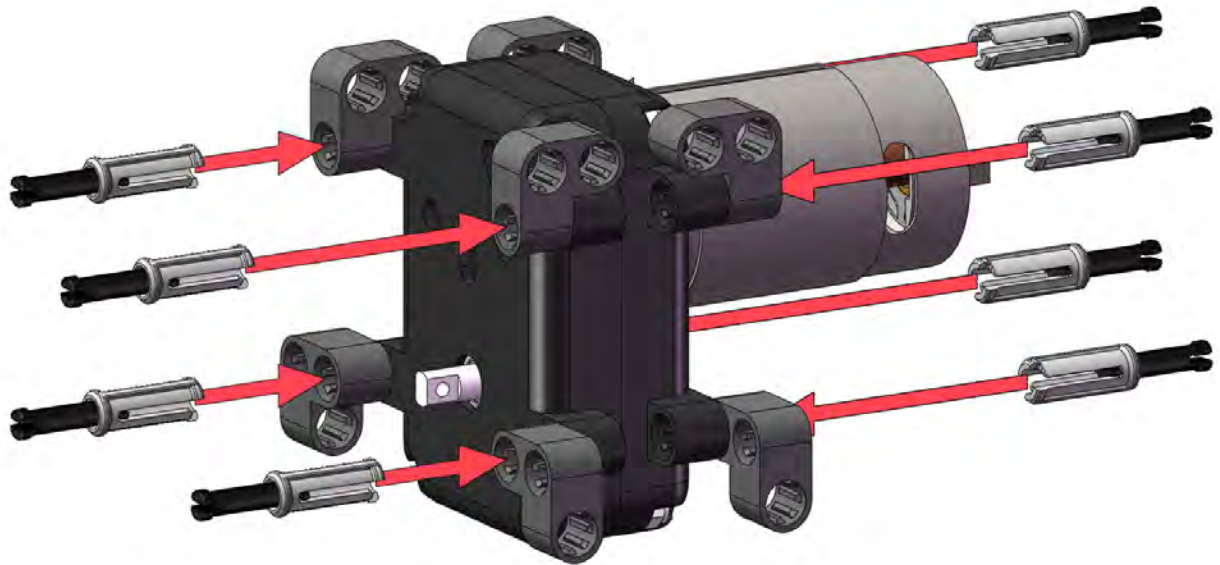


01

x8
TRANSITION



x8
2-LOCK

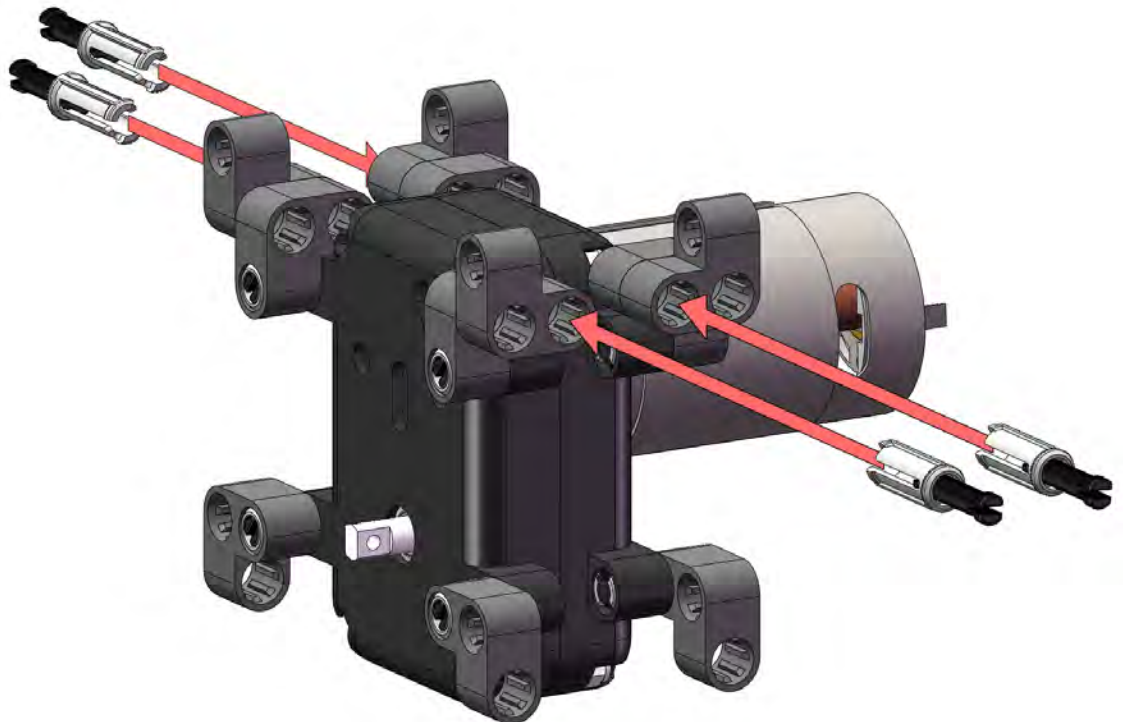


02

x4
TRANSITION



x4
2-LOCK



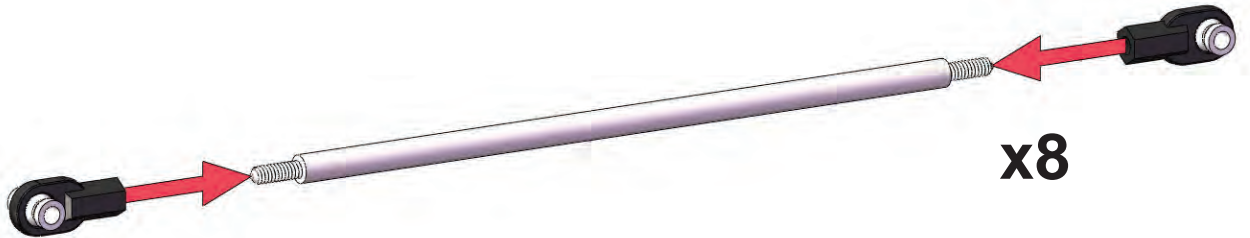
03

x8
4.8" FOUR LINK ARM

x16
ROD END



x16
ROD END BALL



04

x4
11-BEAM



x4
7-BEAM



x4
3-LOCK



x4
#4-40 x 1-3/8" SCREW



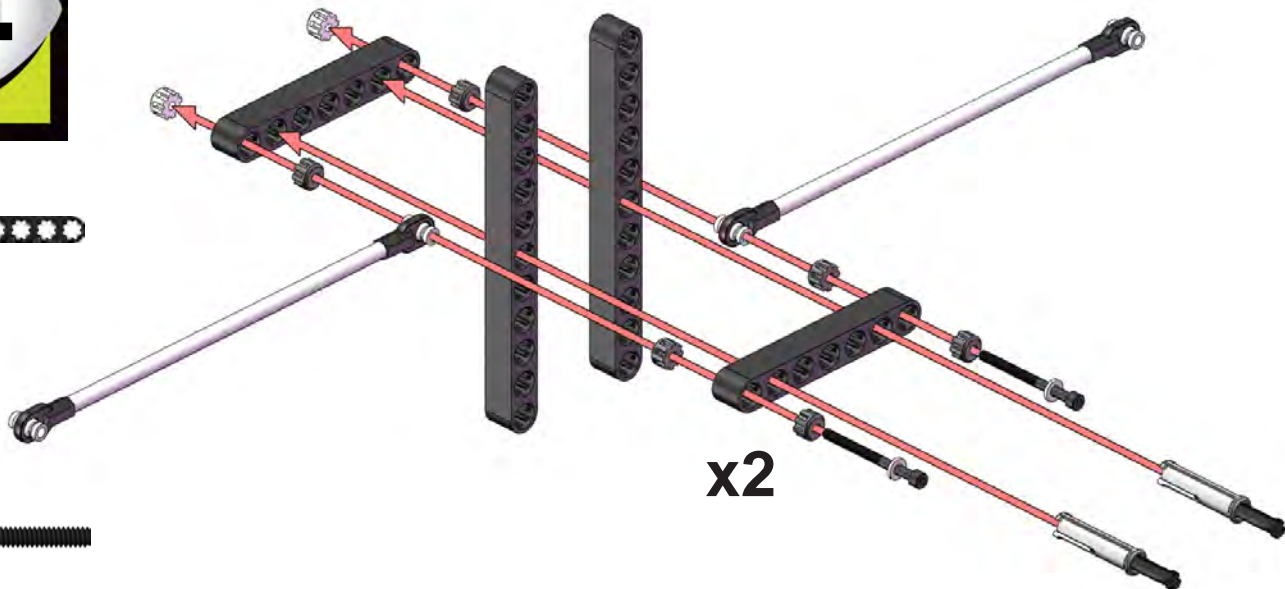
x4
#4 WASHER



x12
CLEARANCE THREAD
ADAPTER



x4
INTERFERENCE THREAD
ADAPTER

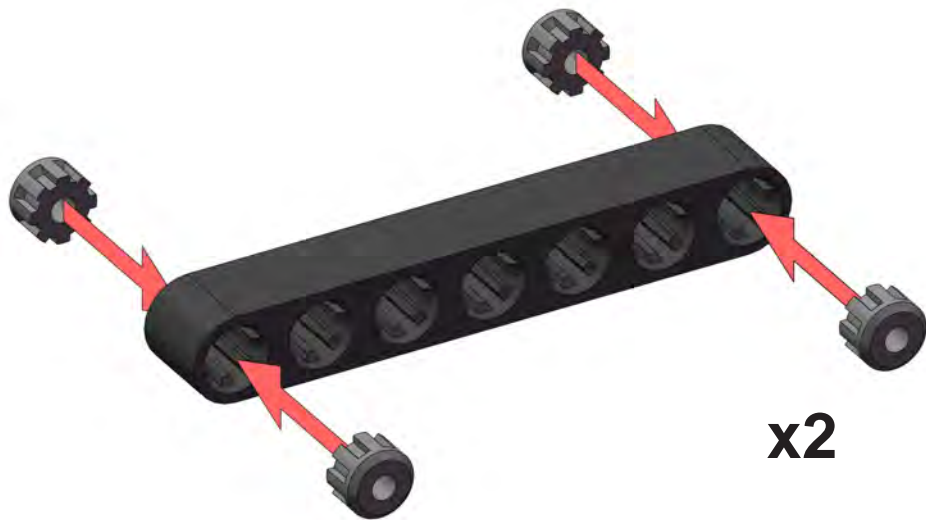


05

x2
7-BEAM

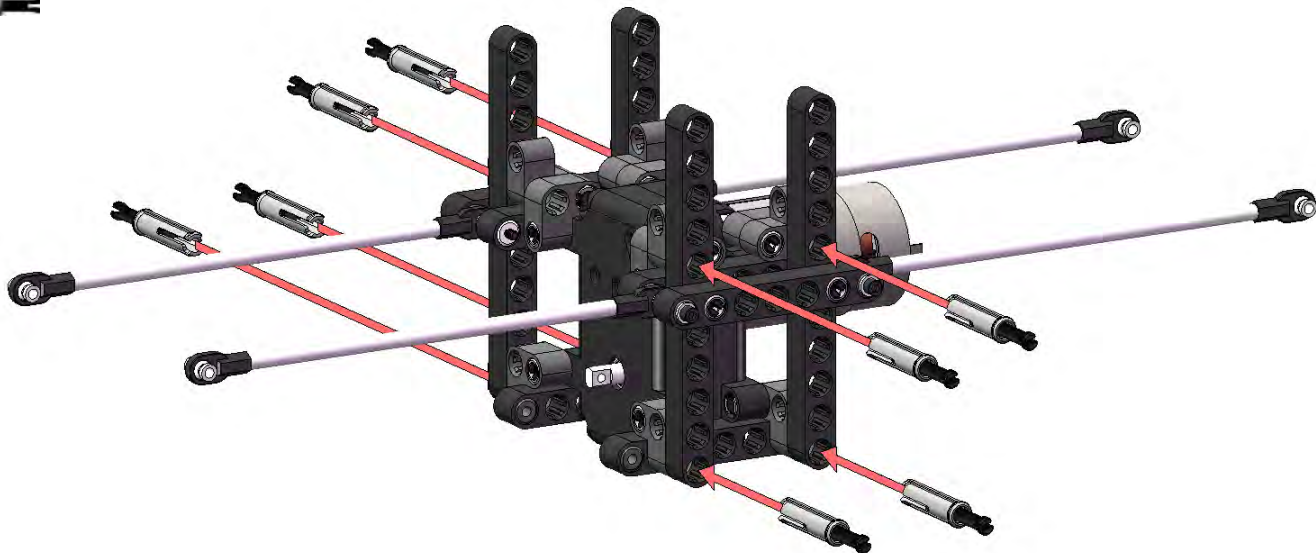


x8
CLEARANCE THREAD
ADAPTER



06

x8
3-LOCK



07

x2
13-BEAM



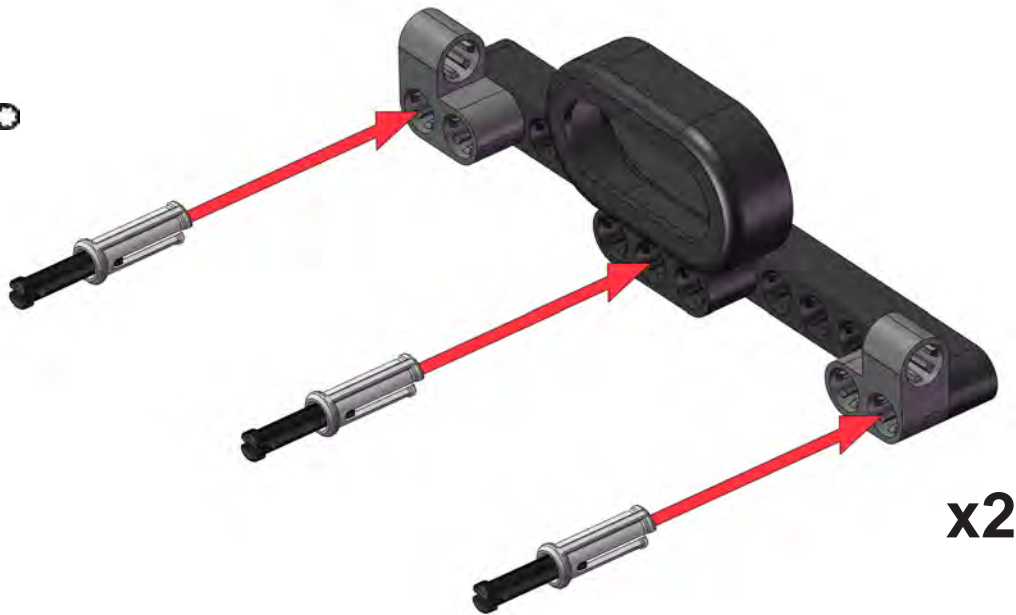
x2
BATTERY CAP



x4
TRANSITION



x6
2-LOCK



x2

08

x4
11-BEAM



x4
10-BEAM



x4
90mm SHOCK



x2
2.0" THREAD COLLAR



x4
#4-40 x 1-3/8" SCREW



x4
SHOCK MOUNT



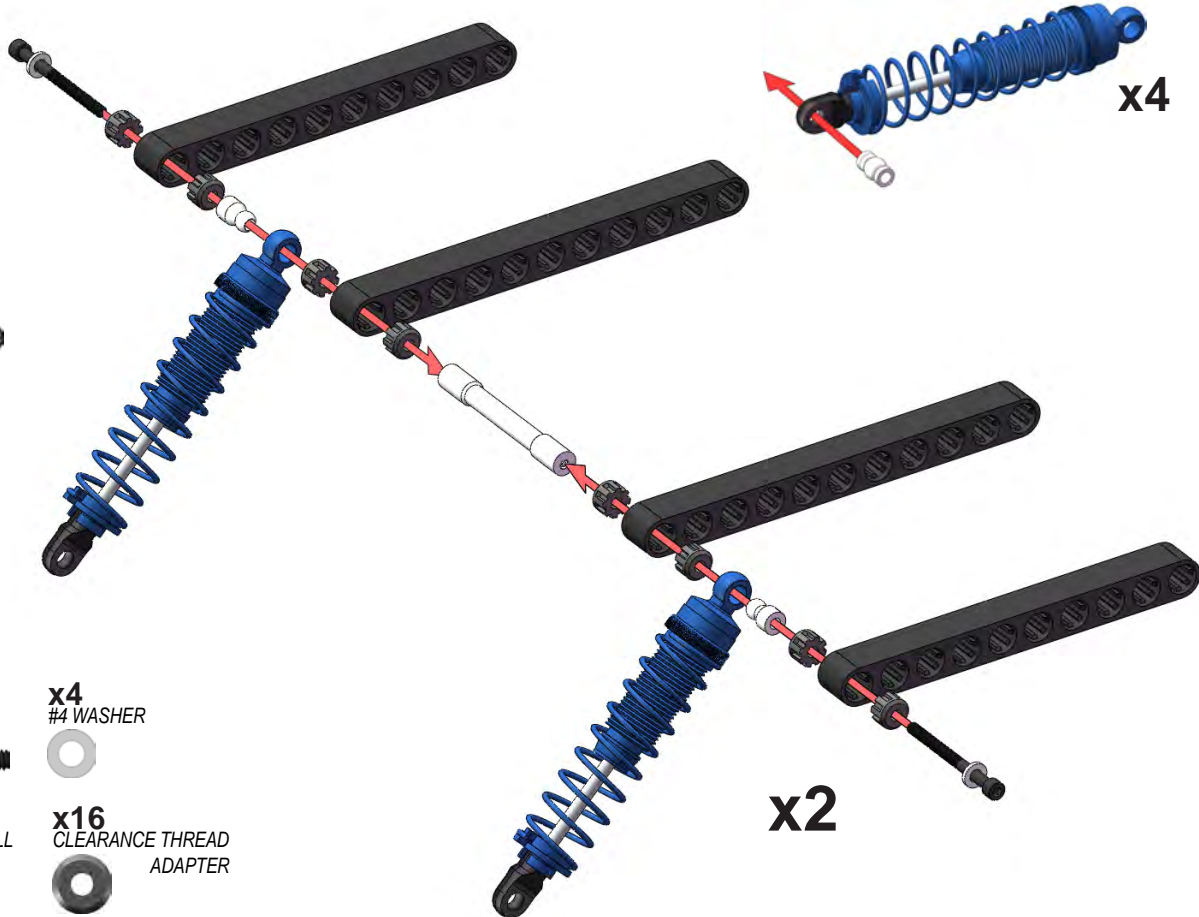
x4
ROD END BALL



x4
#4 WASHER



x16
CLEARANCE THREAD ADAPTER



x4

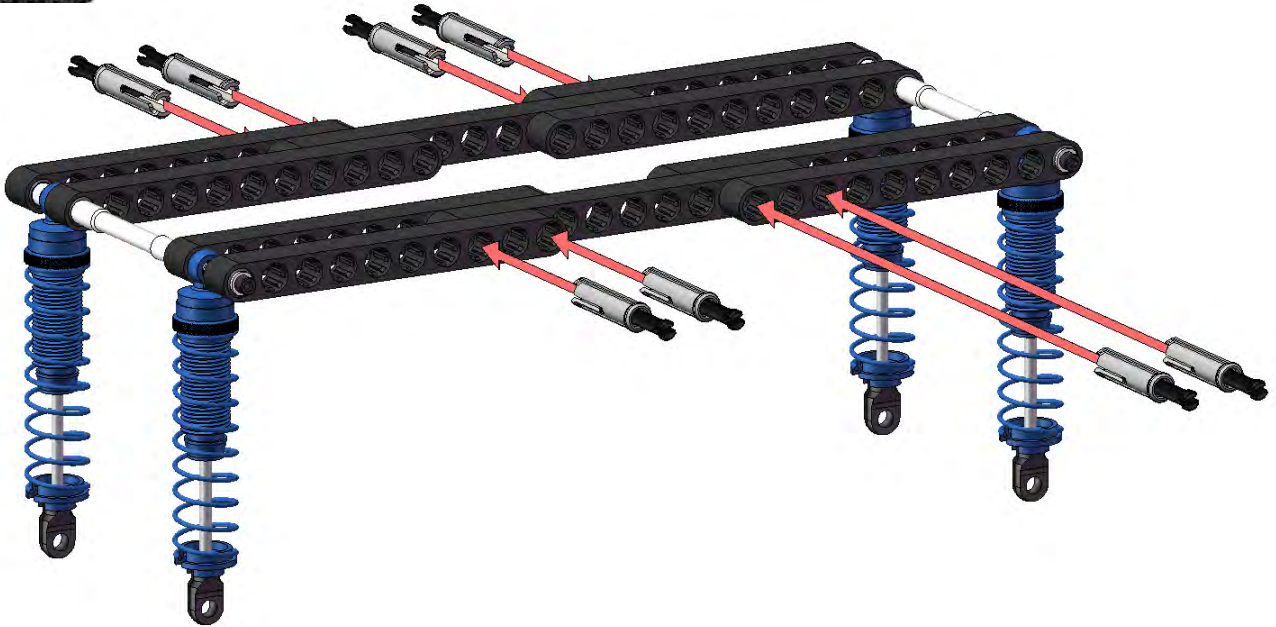
x2



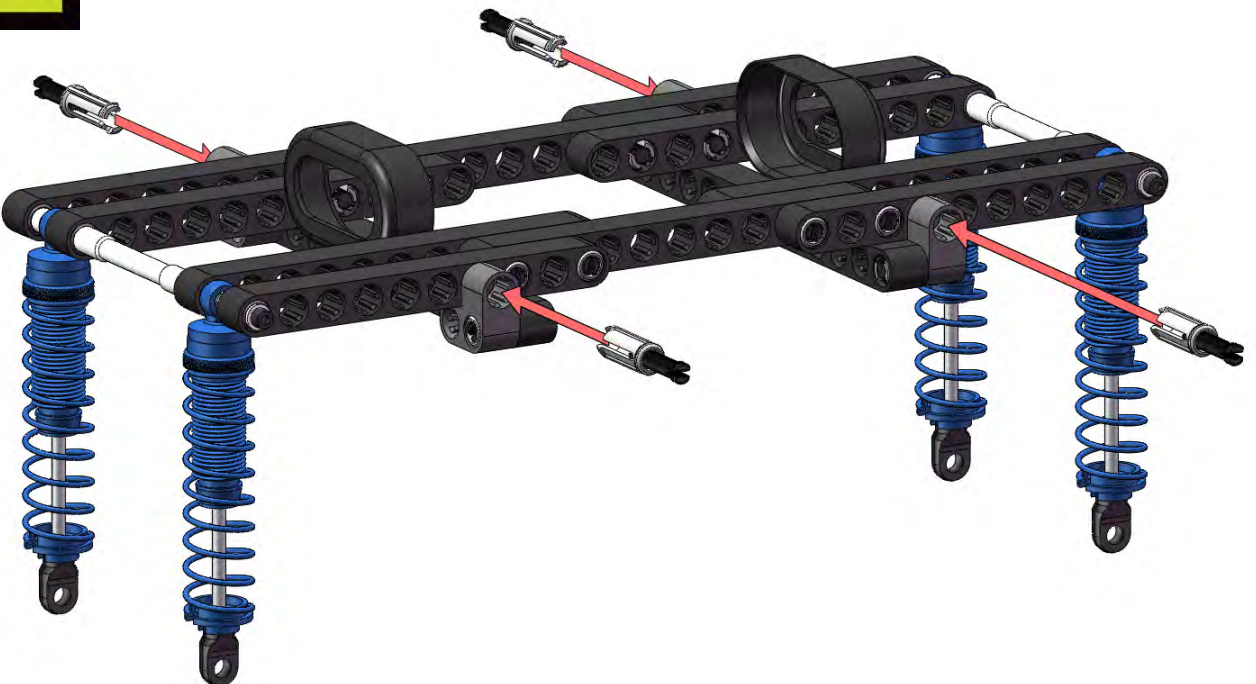
x2
11-BEAM



x8
3-LOCK

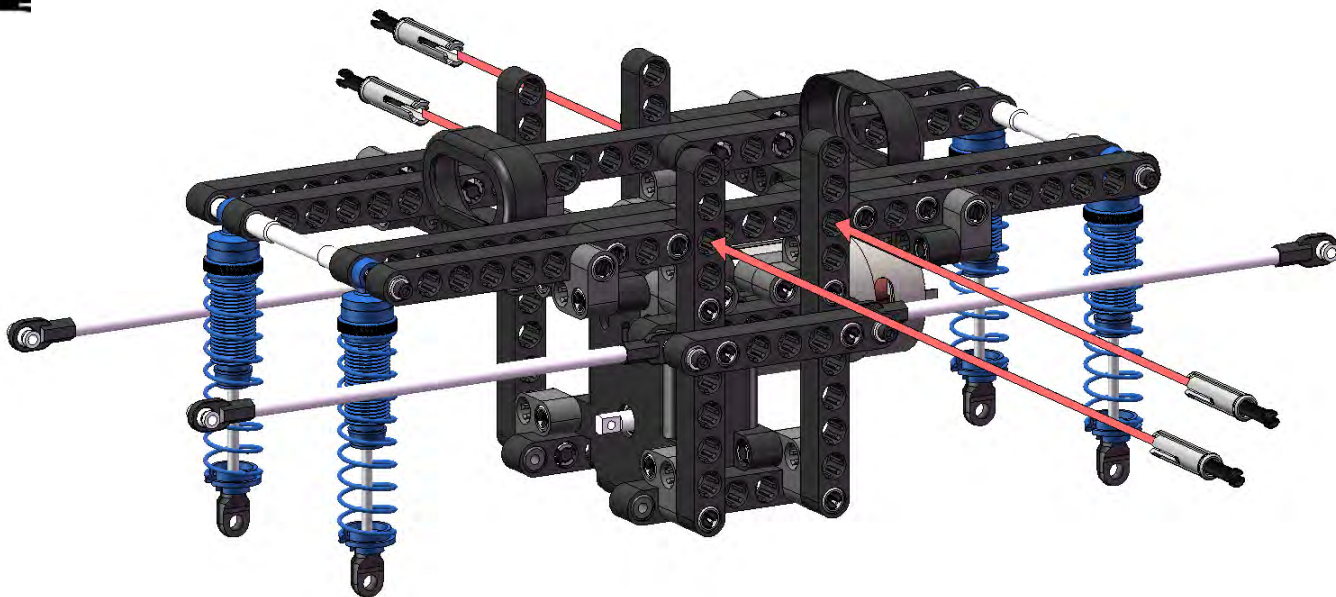


x4
2-LOCK





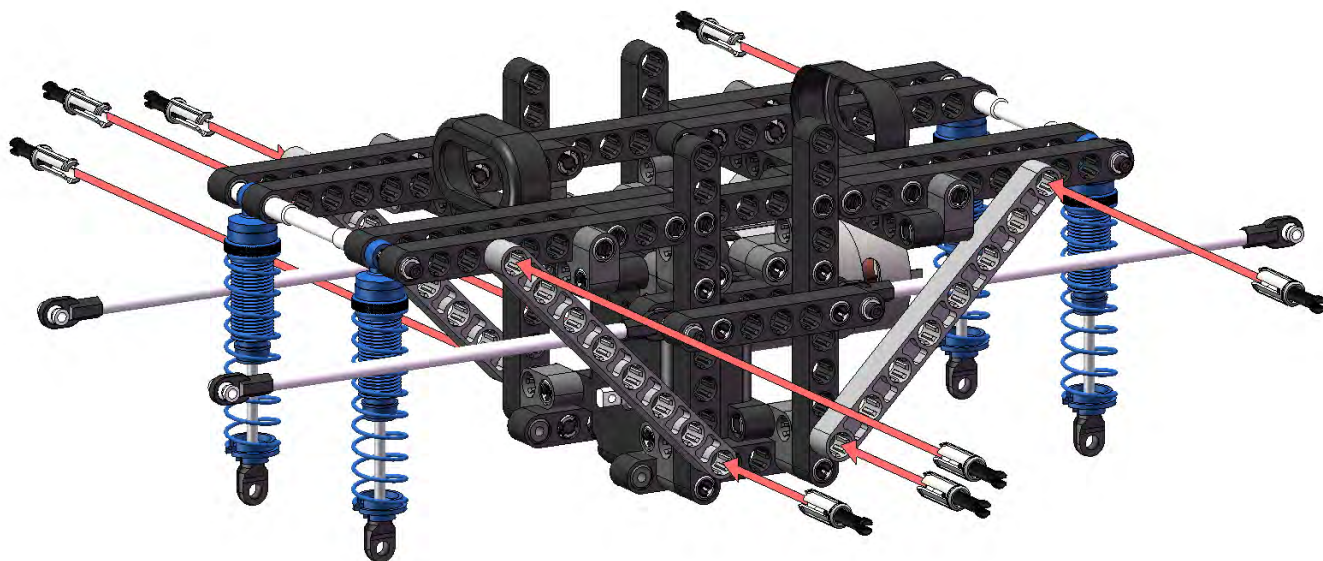
x4
3-LOCK



x4
8-45 BEAM



x8
2-LOCK



13

x2
DUAL TRANSITION



x1
#4-40 x 1-3/8" SCREW



x1
#4 WASHER



x3
CLEARANCE THREAD
ADAPTER



x1
INTERFERENCE
THREAD
ADAPTER



14

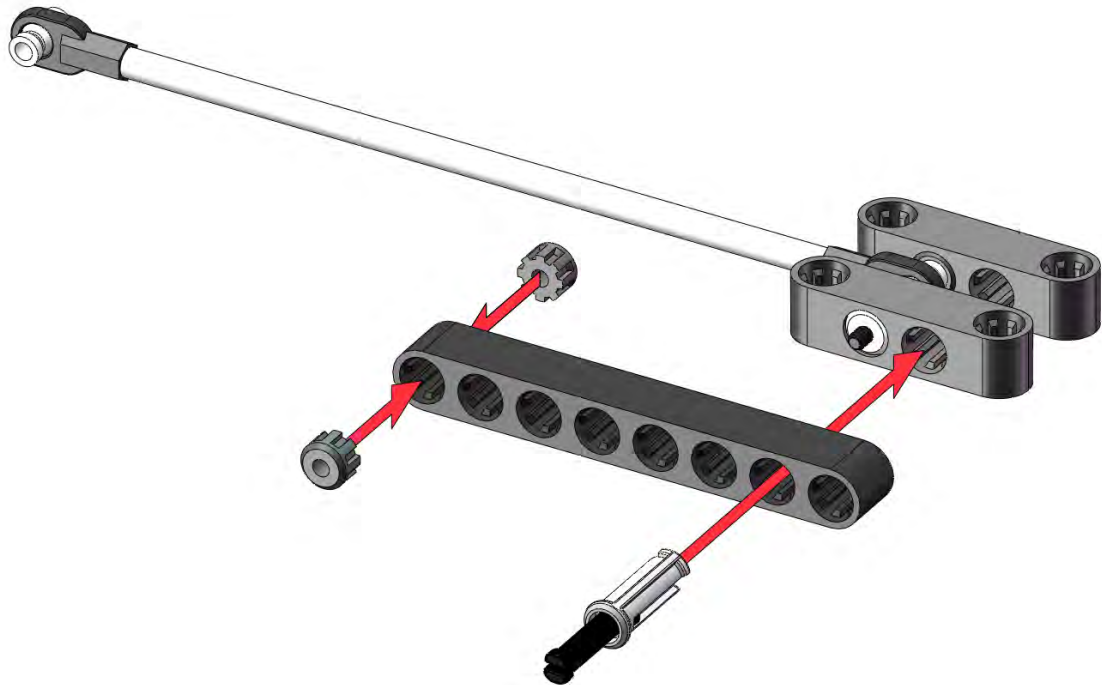
x1
8-BEAM



x1
2-LOCK



x2
CLEARANCE
THREAD
ADAPTER

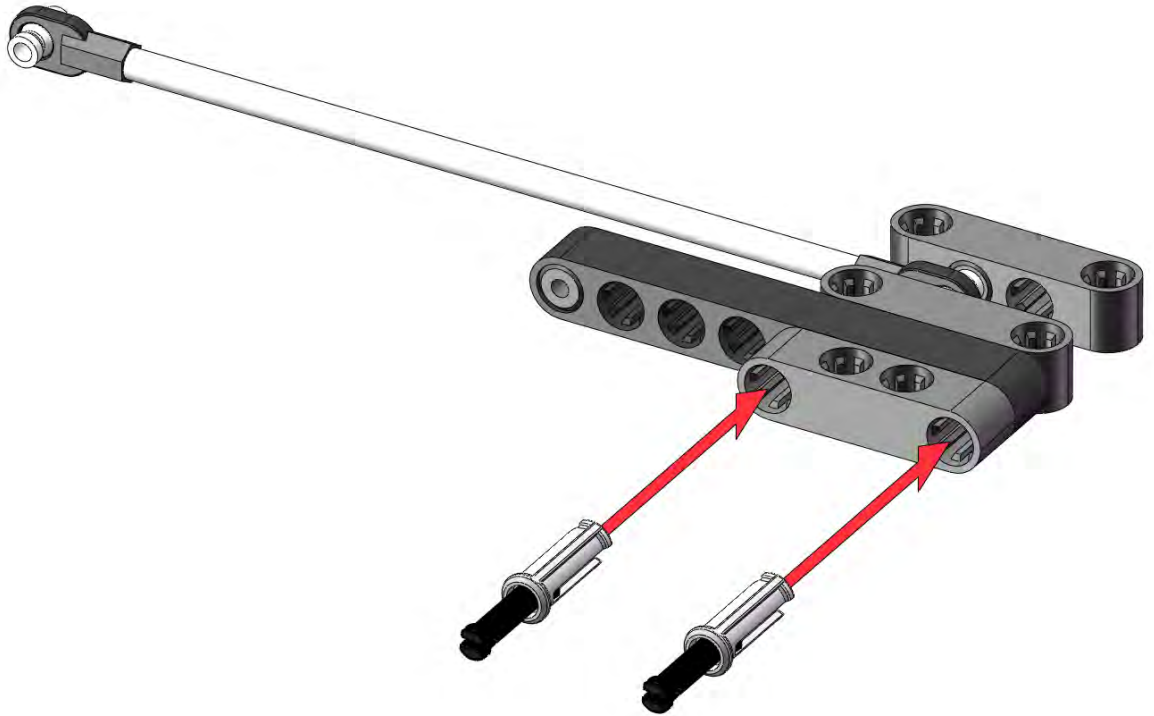




x1
DUAL TRANSITION



x2
2-LOCK



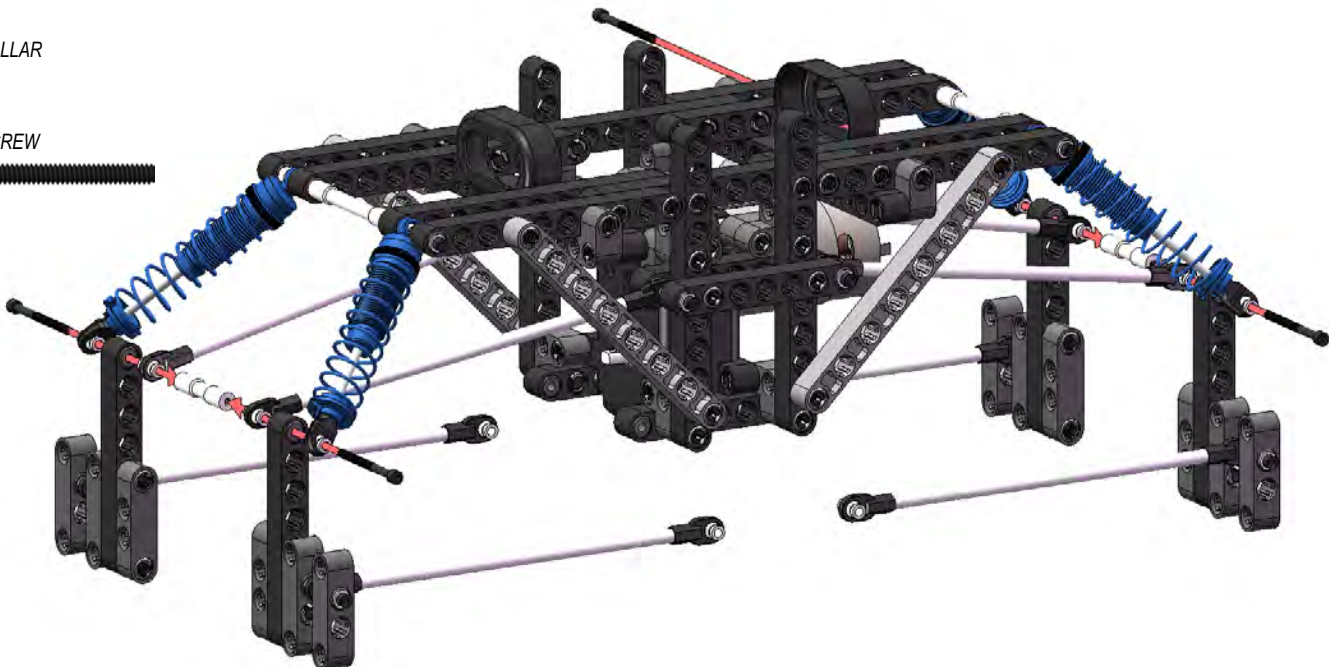
x4 REPEAT STEPS 13-15



x2
1.2" THREAD COLLAR



x4
#4-40 x 1-3/8" SCREW

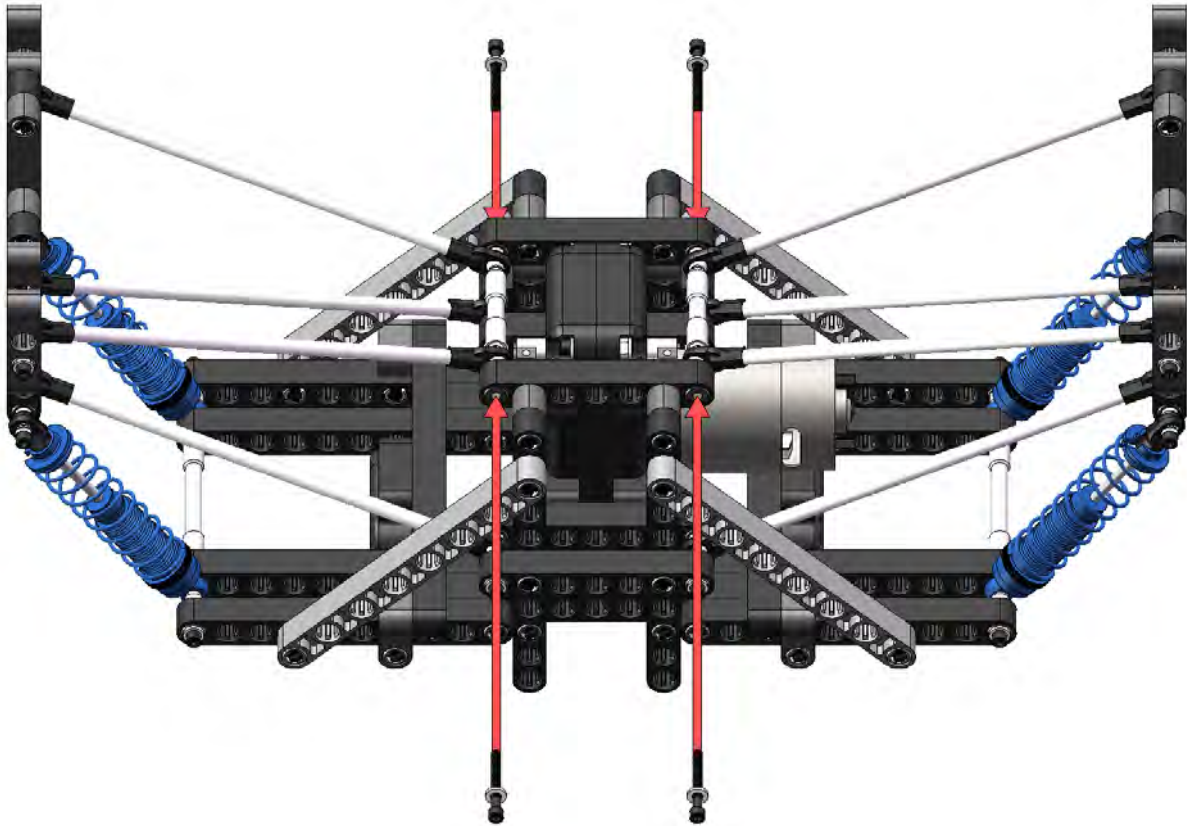


17

x2
1.2" THREAD COLLAR

x4
#4-40 x 1" SCREW

x4
#4 WASHER



18

x2
13-BEAM

x4
9-BEAM

x4
2-LOCK



19

x4
3-45 BEAM

x4
TRANSITION

x4
3-LOCK



20

x2
11-BEAM

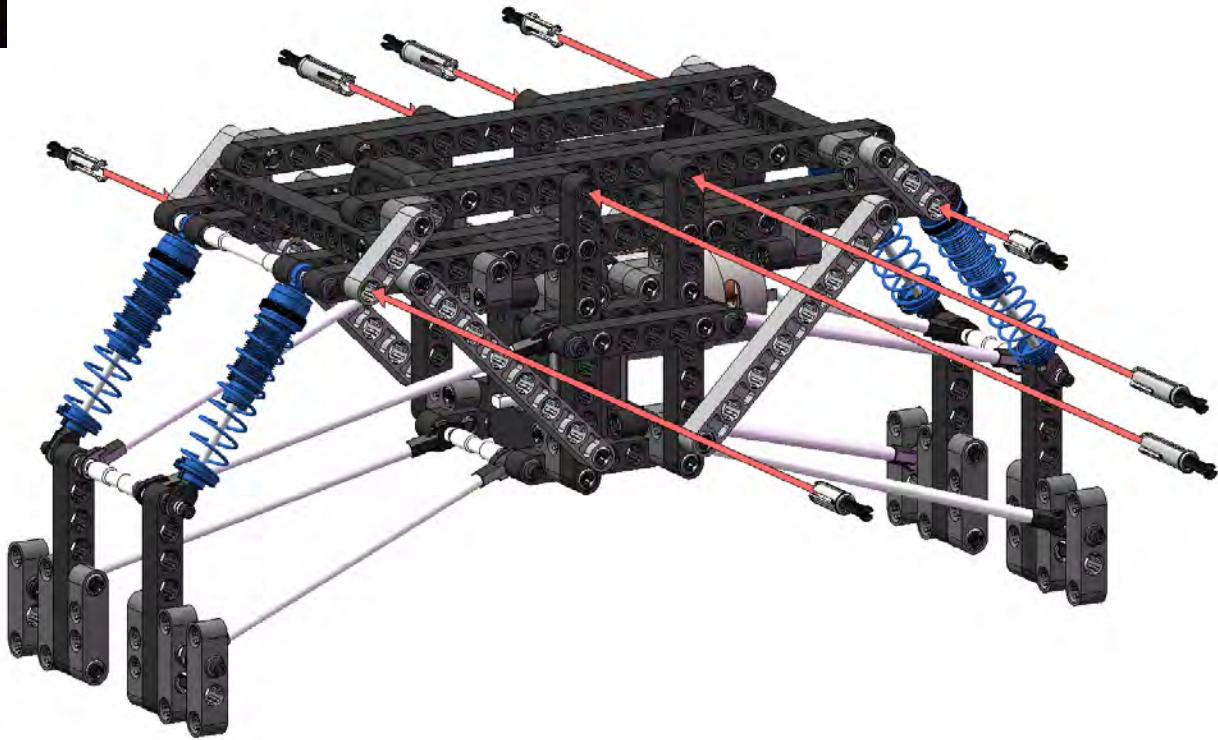
x4
2-LOCK



21

x4
3-LOCK

x4
2-LOCK



22

x2
6-DRIVELINE

x2
M5 WHEEL END SHAFT

x4
U-JOINT SET SCREW



23

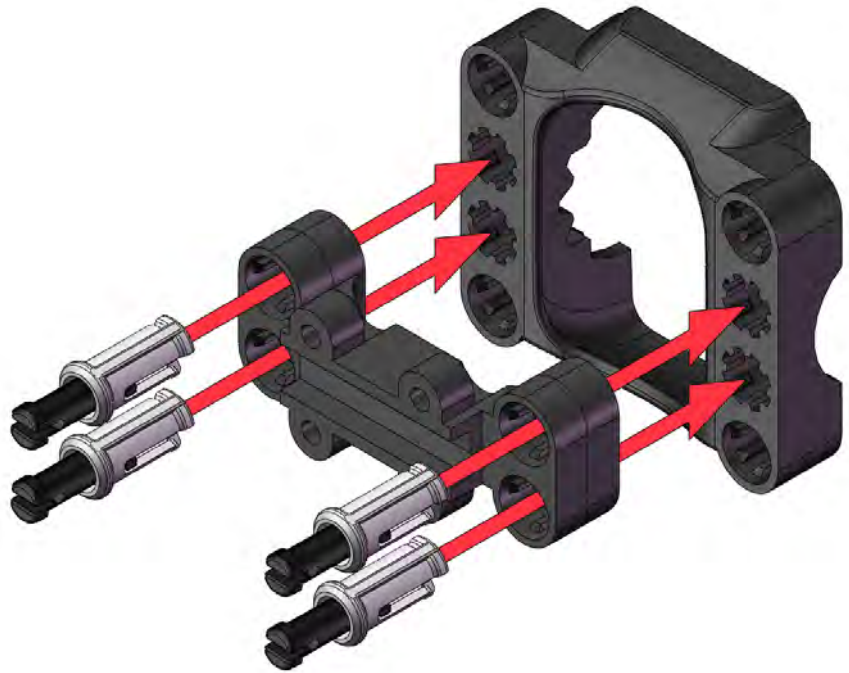
x1
AXLE HOUSING



x1
STEERING BRACKET



x4
1.5-LOCK



24

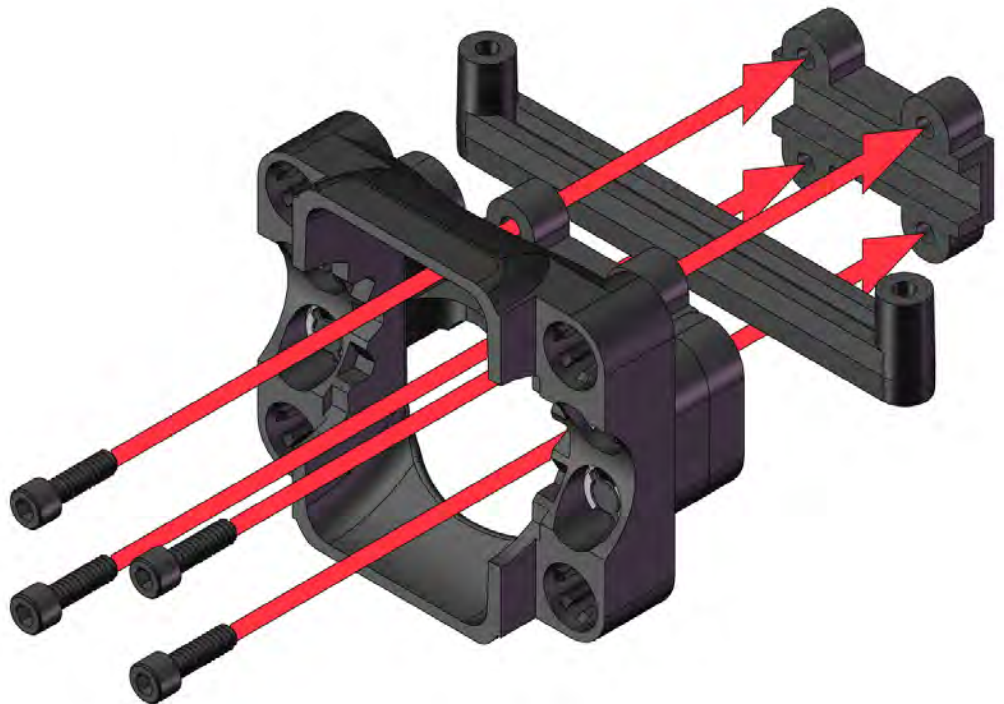
x1
STEERING BAR



x1
STEERING PLATE



x4
#4-40 x 3/8" SCREW



25

x1
AXLE HOUSING



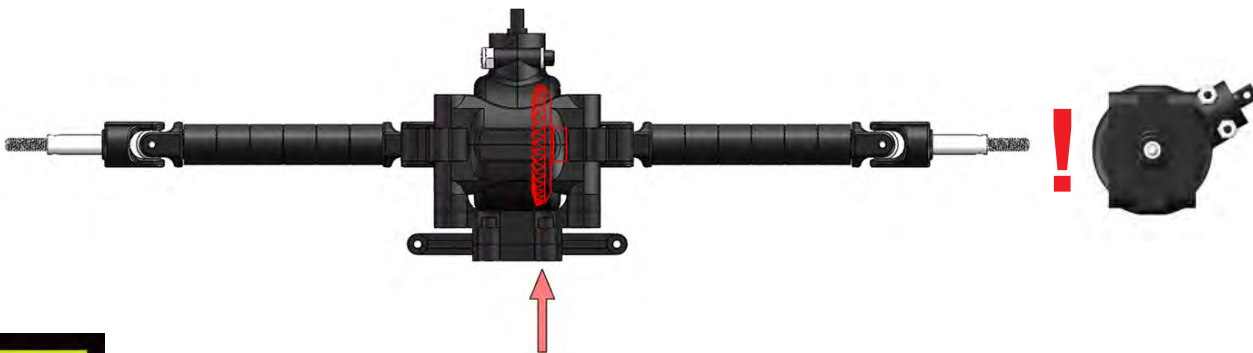
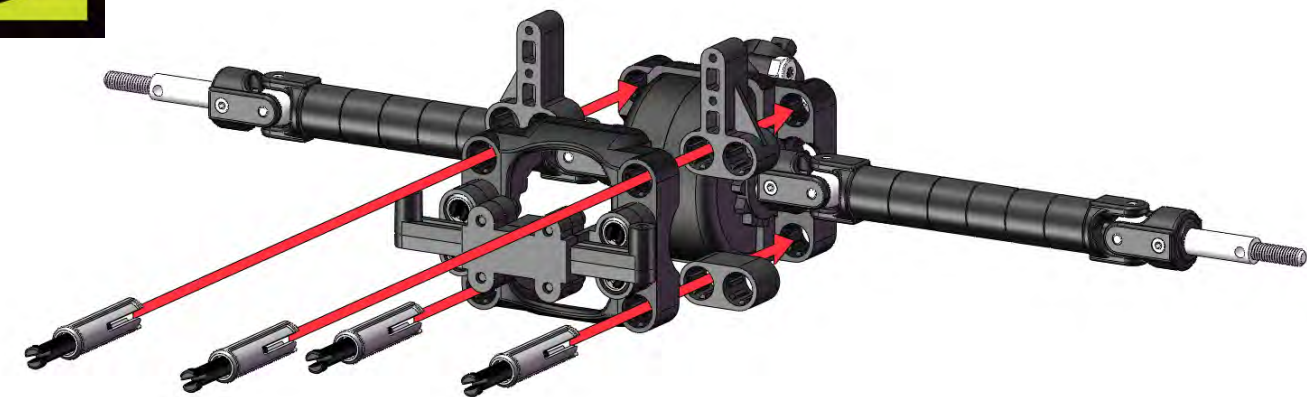
x2
SERVO MOUNT



x2
2-BEAM



x4
3-LOCK



26

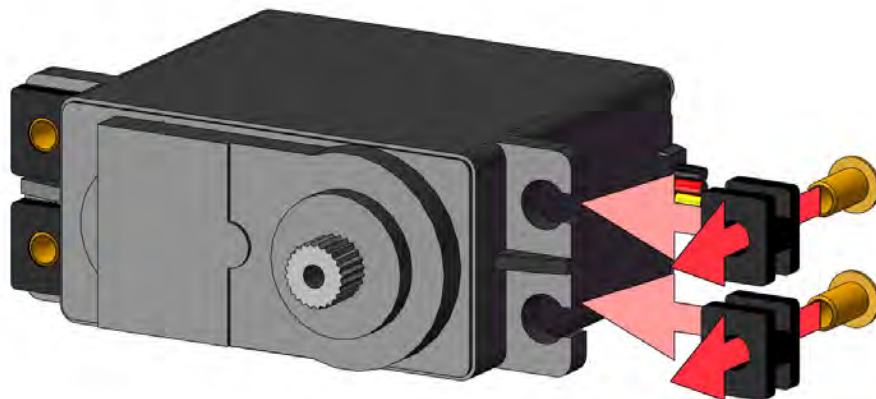
x1
HS-485HB SERVO



x4
SERVO BUSHING



x4
SERVO BUSHING SLEEVE

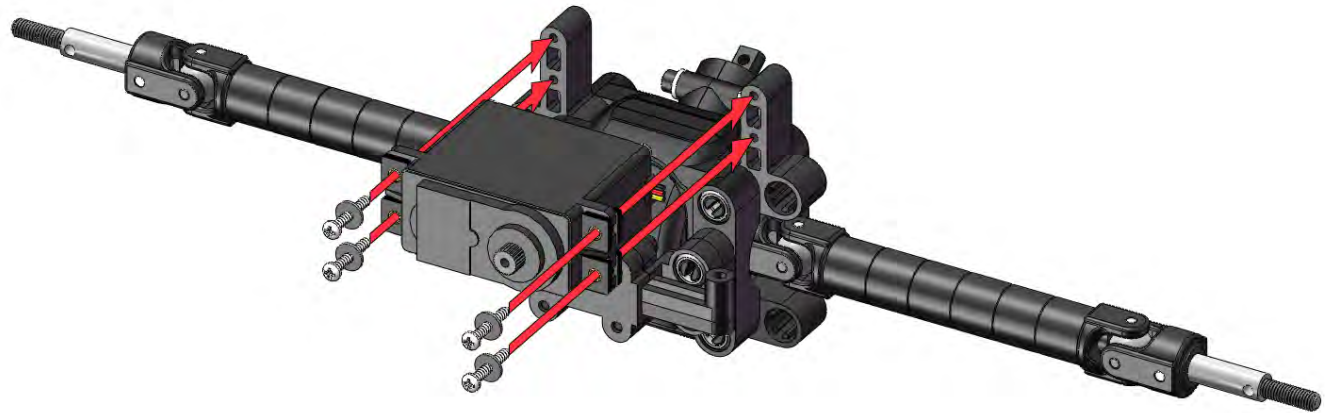


27

x4
#2-32 x 5/8" SCREW



x4
#2 WASHER

28

x8
9-BEAM



x2
FRONT WHEEL HUB



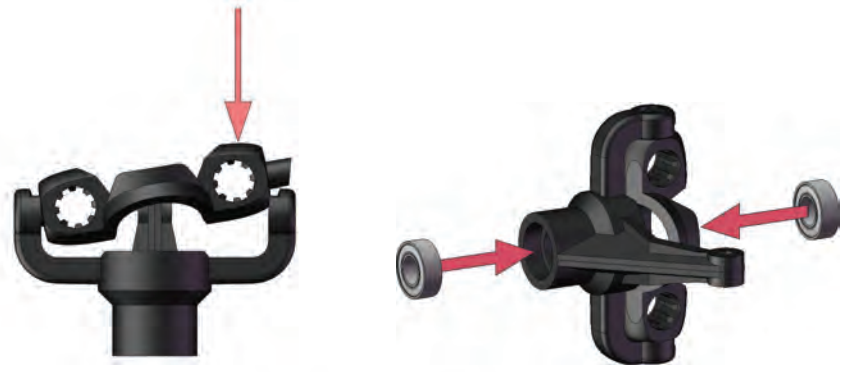
x2
FRONT WHEEL KNUCKLE



x4
3-LOCK



x4
6x12x4mm BEARING

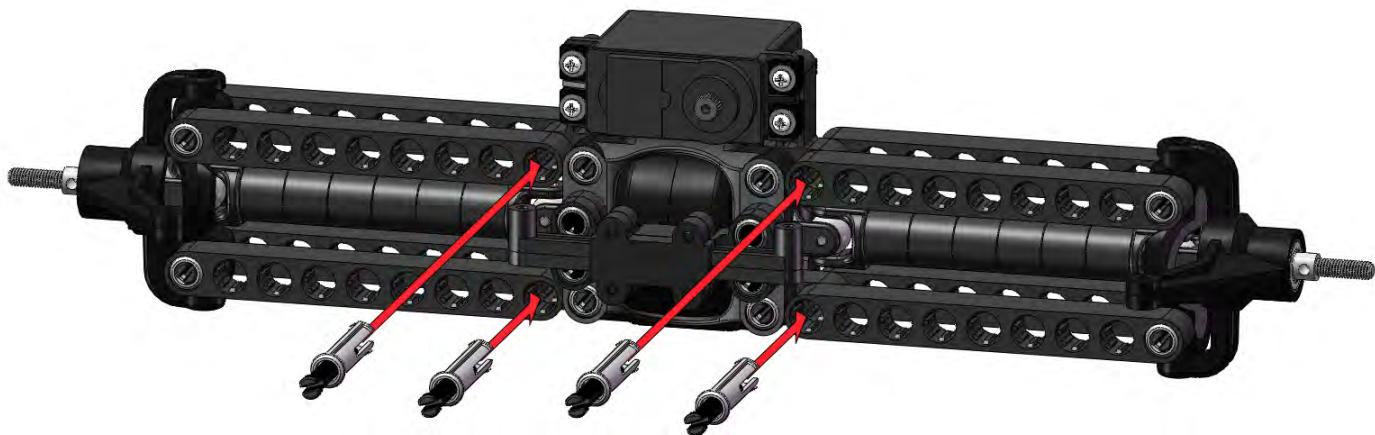



29



30

x4
3-LOCK



31

x2
3-45 BEAM



x2
TRANSITION



x2
3-LOCK

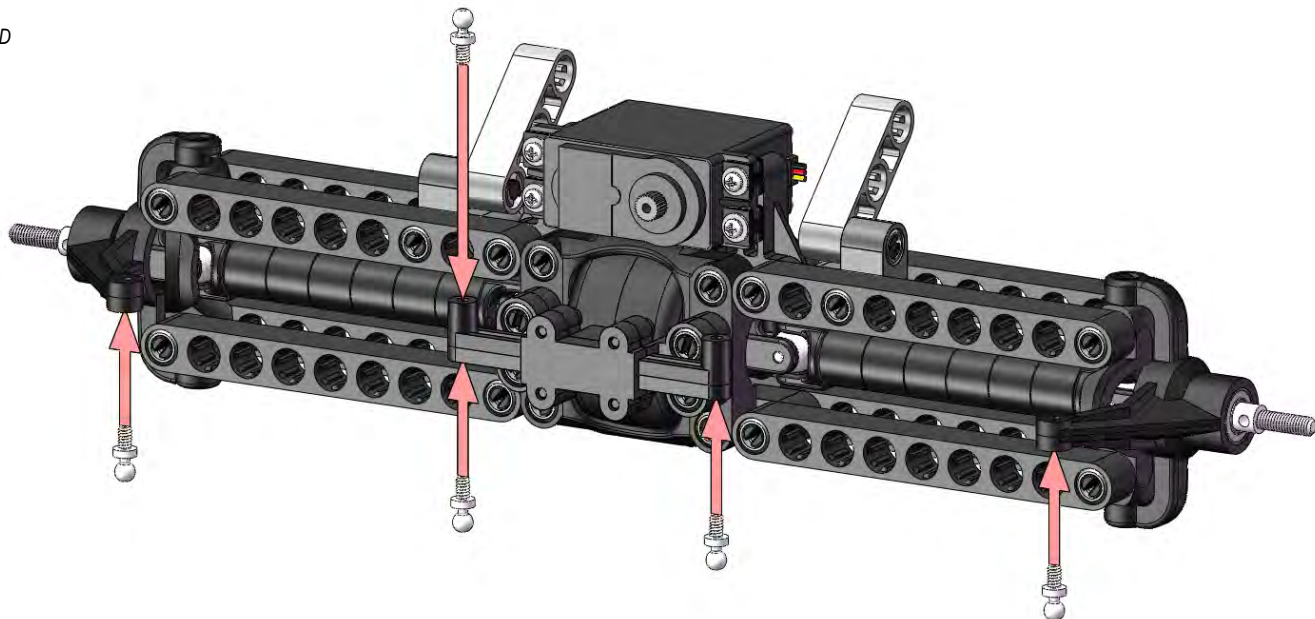


x2
2-LOCK



32

x5
3/16" BALL STUD





x2
#4-40 x 2-3/4" THREAD ROD

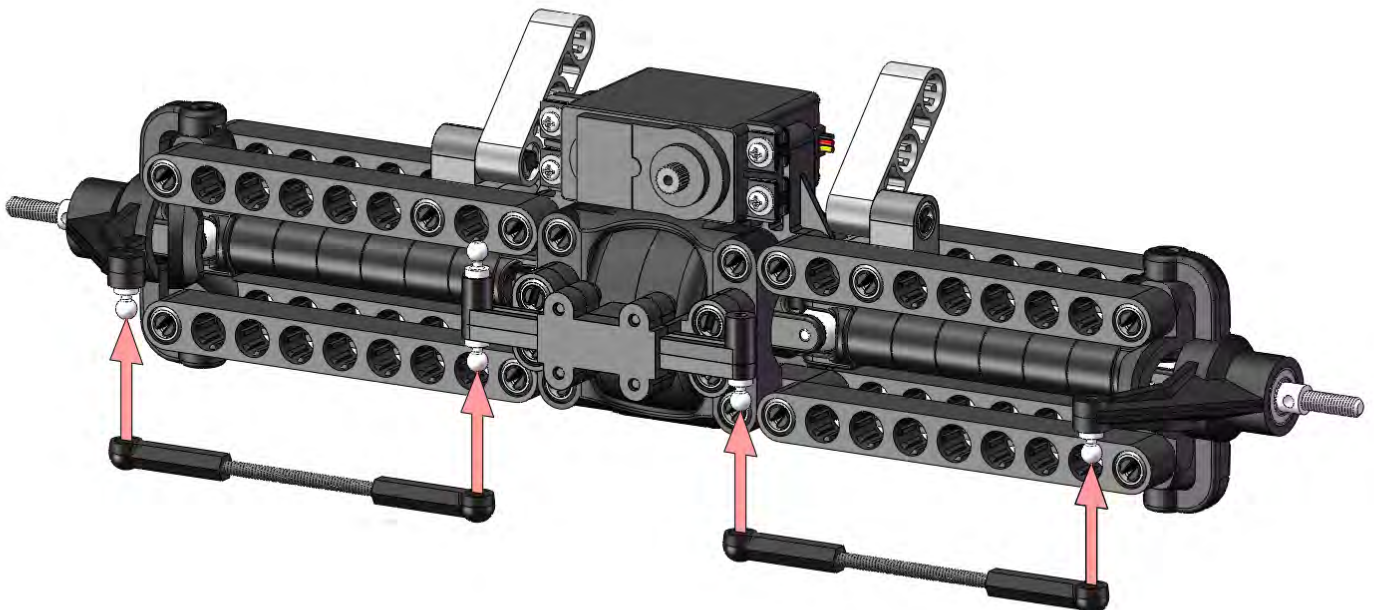


x4
23mm BALL CUP



1:1 SCALE

x2





x1
#4-40 x 1" THREAD ROD

x2
18mm BALL CUP



=

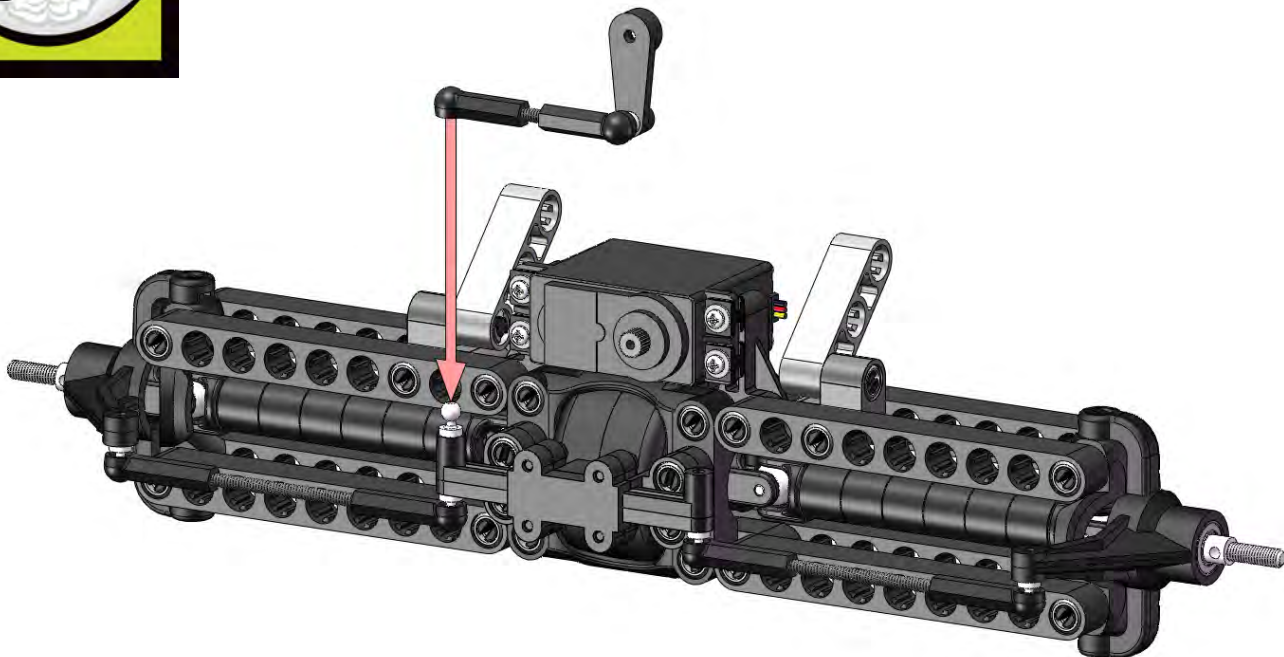
1:1 SCALE



x1
STEERING SERVO HORN

x1
3/16" BALL STUD

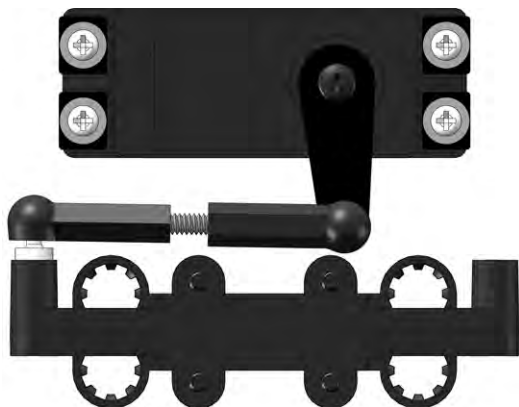
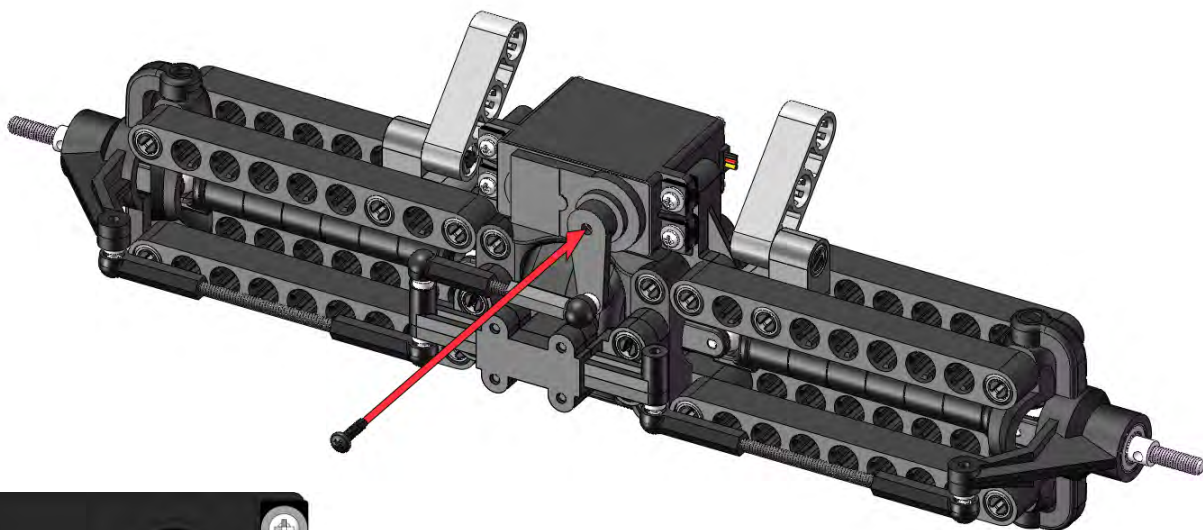




NOTE: REFER TO RADIO CONTROL SYSTEM INSTRUCTION MANUAL FOR PROPER SERVO SET-UP AND ADJUSTMENT



x1
SERVO HORN SCREW

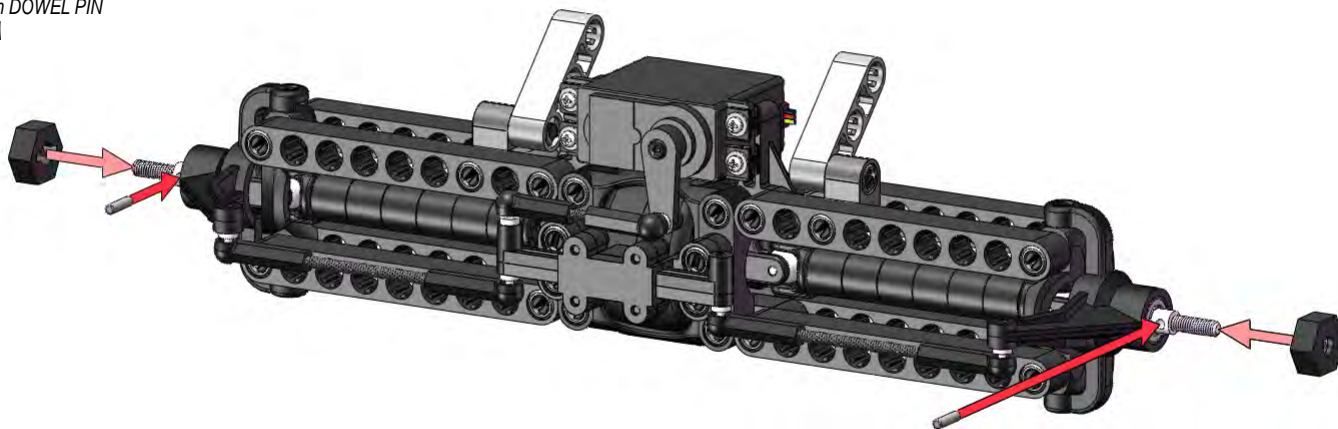




x2
14mm WHEEL NUT



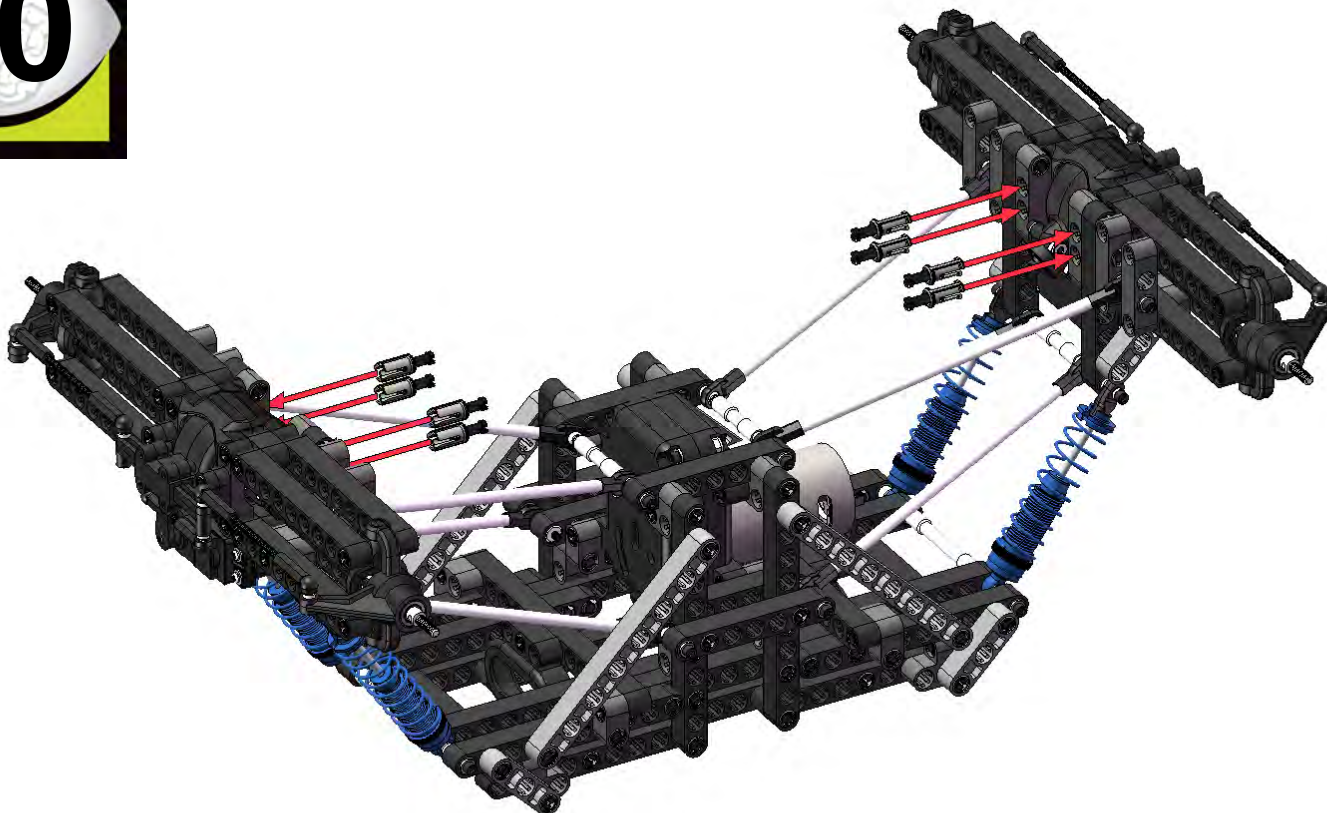
x2
2.5x10mm DOWEL PIN



x2 REPEAT STEPS 22-39

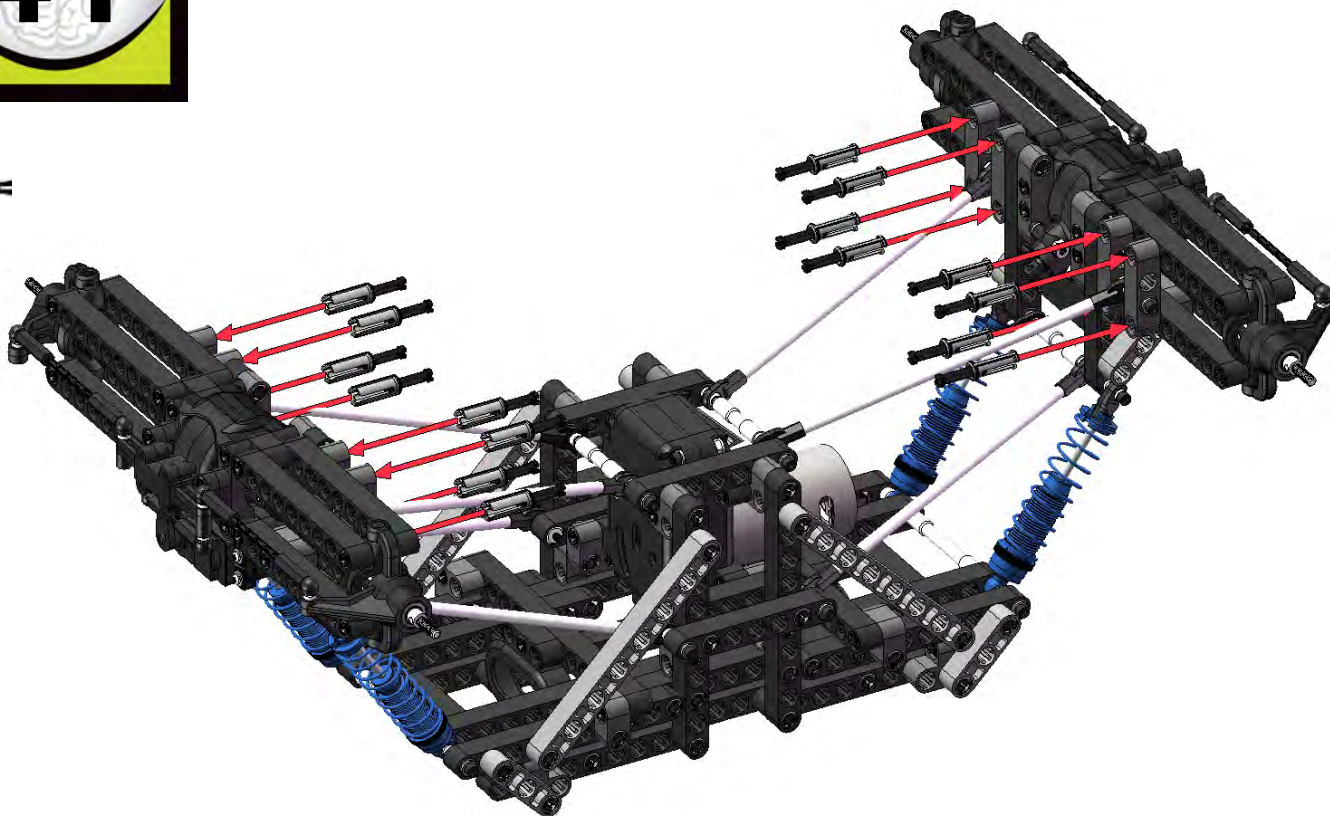


x8
1.5-LOCK



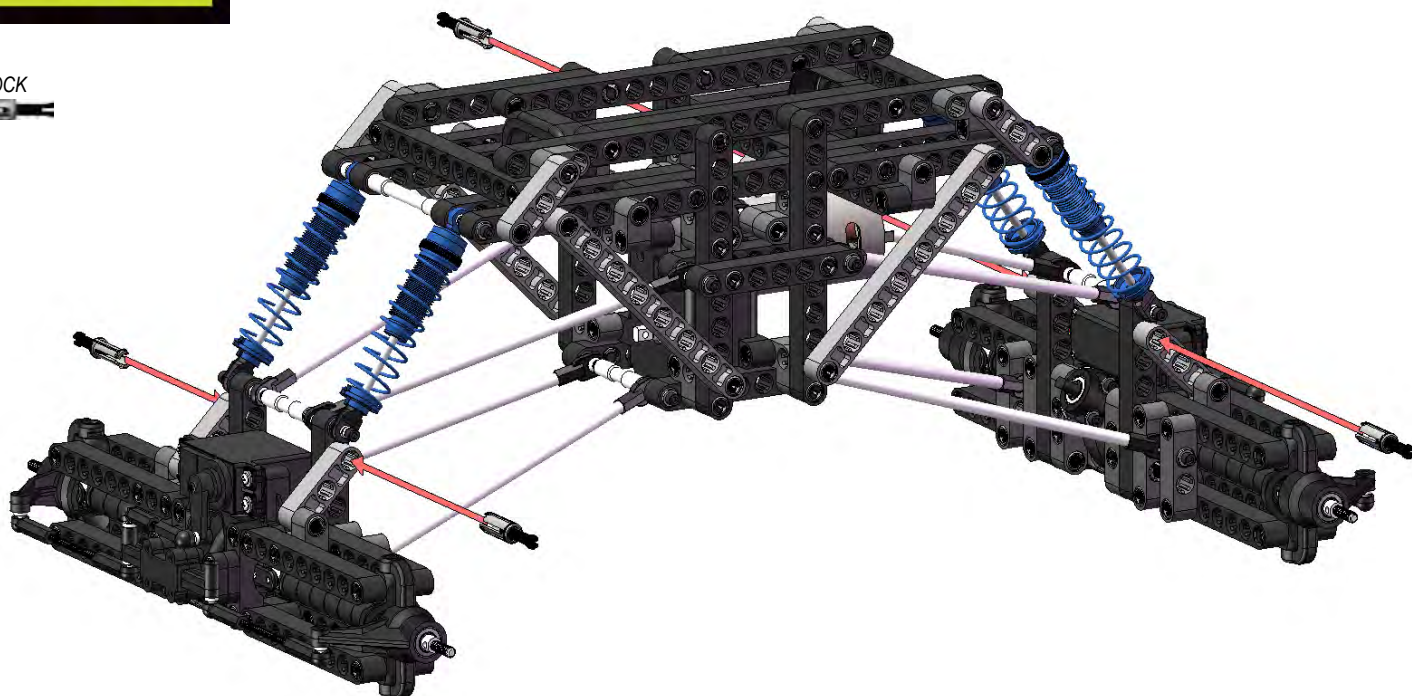
41

x16
2-LOCK



42

x4
2-LOCK

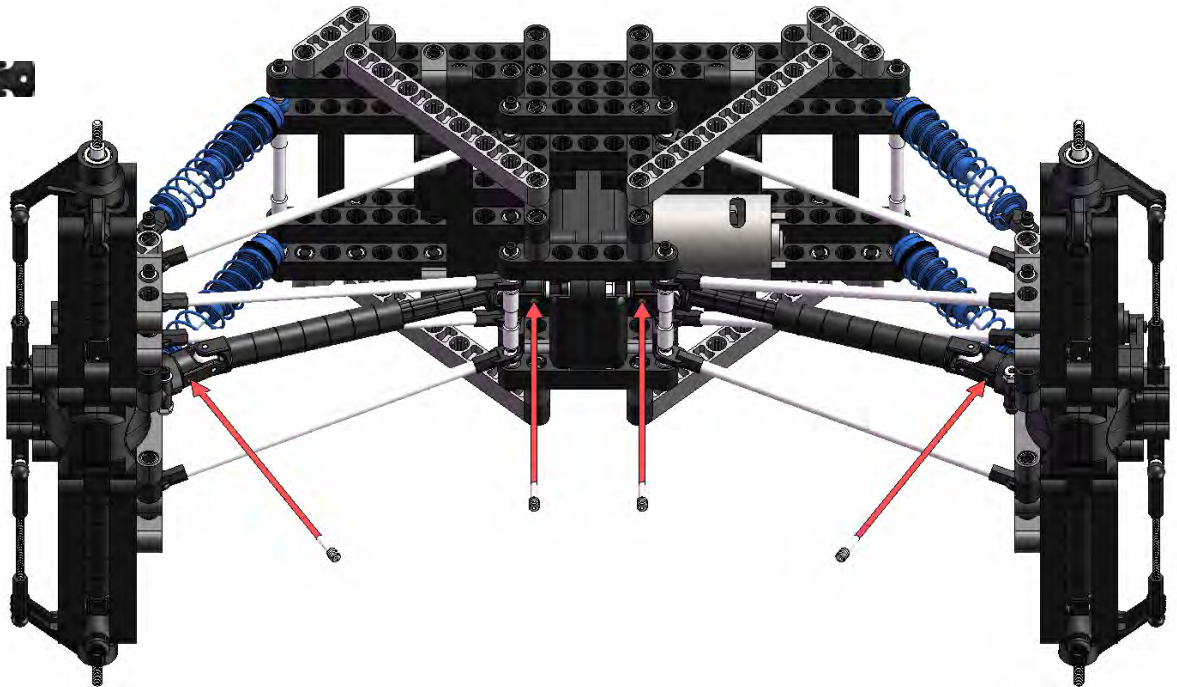


43

x2
7-DRIVELINE



x4
U-JOINT SET SCREW



44

x4
BADLANDS 3.8" TIRE & DESPERADO WHEEL



x4
M5 WASHER



x4
M5 NUT

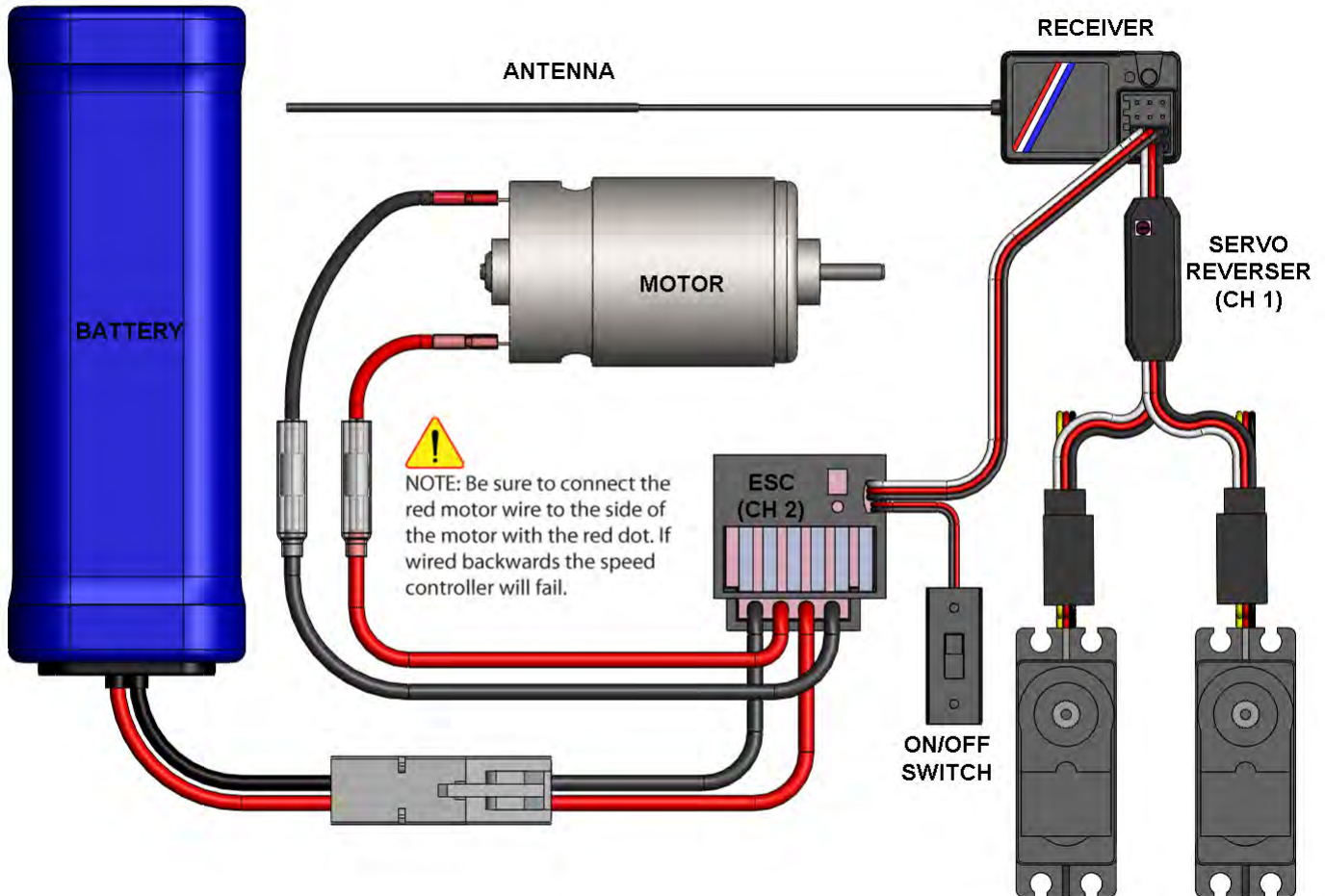


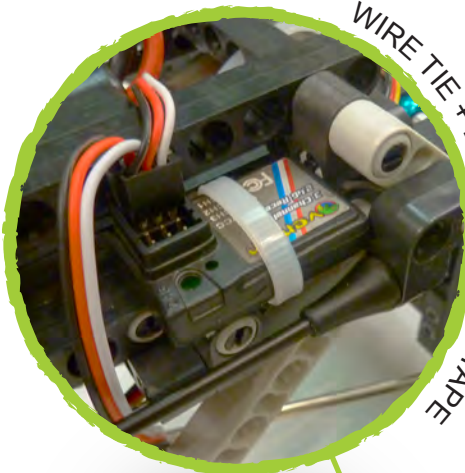


REFER TO RADIO TRANSMITTER MANUAL AND FOLLOWING DIAGRAMS FOR PROPER INSTALLATION AND SET-UP.

USING THE WIRE TIES AND DOUBLE-SIDED TAPE PROVIDED, PLACE THE ELECTRONIC COMPONENTS ON THE FRAME SO THAT THEY ARE SECURE AND OUT OF THE WAY OF MOVING PARTS.

BATTERY mAh _____ ÷ CHARGER mA _____ = ESTIMATED CHARGE TIME (IN HOURS)

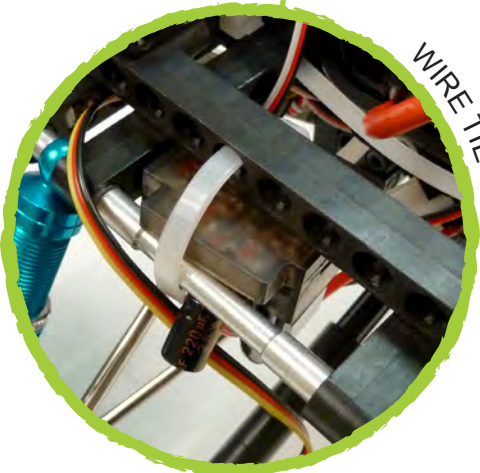
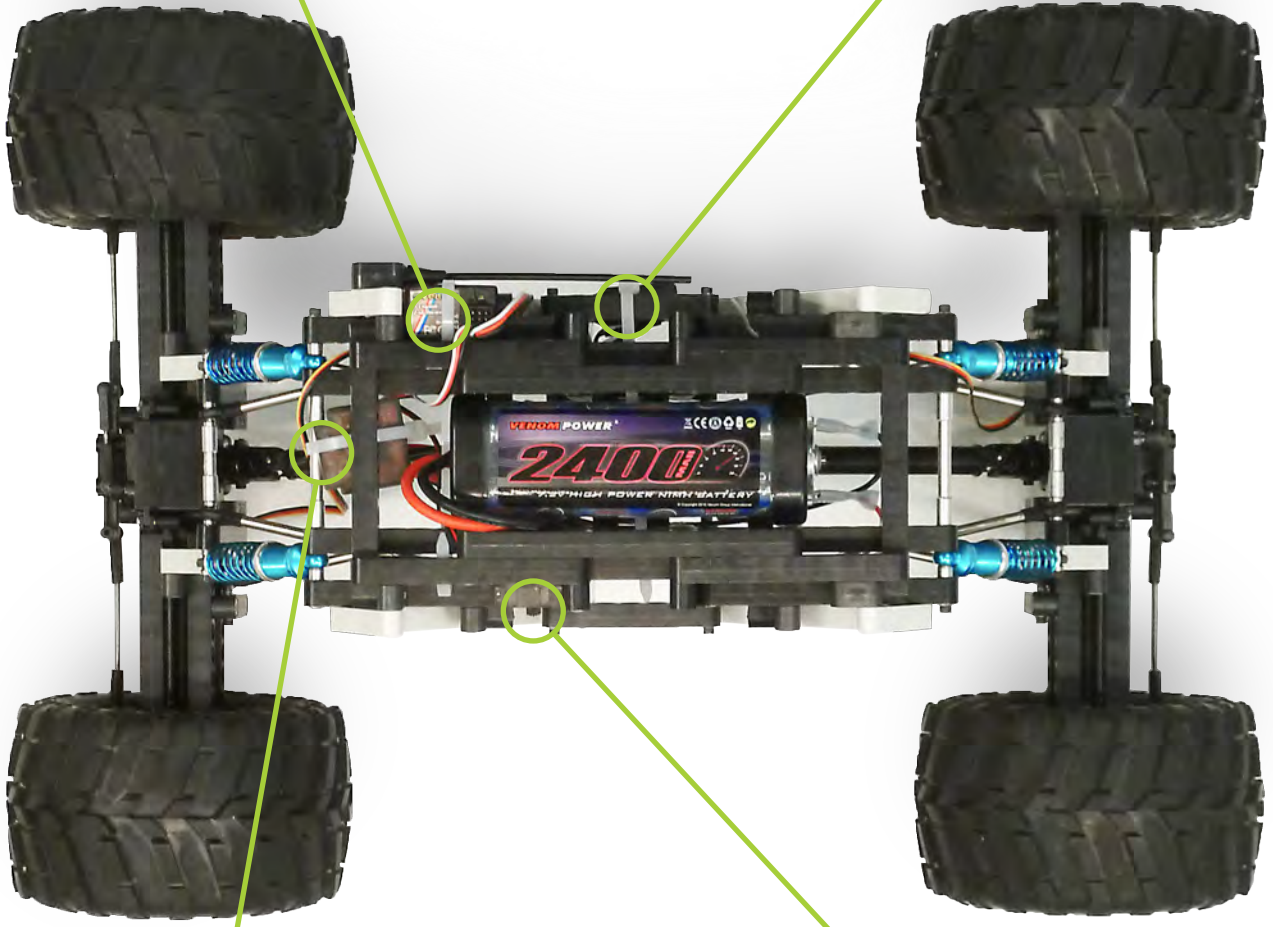




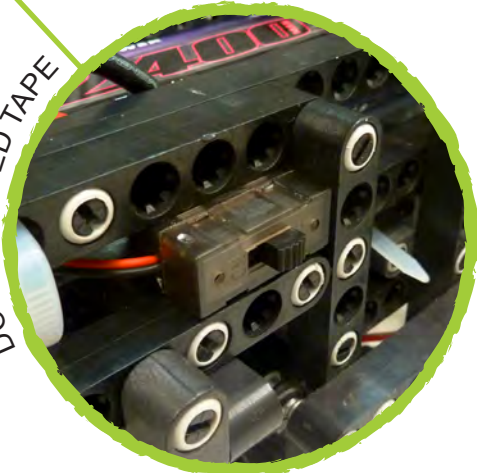
WIRE TIE + DOUBLE-SIDDED TAPE



WIRE TIE



WIRE TIE



DOUBLE-SIDDED TAPE

TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
Wheels rotate backwards when forwards throttle is applied.	1) One or more of your differentials are installed upside down.	1) Check the assembly instructions to make sure the differentials were installed correctly.
	2) The motor is spinning the wrong direction.	2) Check that the wires from the ESC to the motor are connected properly.
	3) The motor case was installed with the motor facing opposite of what the instructions show.	3) Check the assembly instructions to make sure the motor case was installed correctly.
	4) The "throttle" switch on your remote control may be switched to reverse.	4) Flip the switch to normal.
Front wheels rotate opposite of rear wheels when driving.	1) One of your differentials are installed upside down.	1) Check the assembly instructions for proper installation of the differentials.
Vehicle doesn't drive in a straight line with the steering channel centered.	1) Your steering trim is not centered.	1) Center your steering trim.
	2) Your servo horn was not installed on the servo while it was centered.	2) Remove the screw that retains the servo horn, then remove the servo horn. Turn the remote control on, center the trim on the remote, turn the vehicle on. Then reinstall the servo horn as the instructions show.
	3) The linkages that connect your steering bar to the front wheel knuckles are not the proper length or do not match each other.	3) Remove the linkages and check that they are the length indicated in your instructions.
	4) The "Y" harness for four wheel steering is not centered.	4) Follow step 2 for front and rear servo, making sure when you center the trim on the remote to also center the trim on the "Y" harness.
Servo does not operate when steering is applied.	1) Servo cable is plugged in upside down.	1) Check that the cable is plugged in according to the wiring polarity guide.
Servo steers only one direction or farther one way than the other.	1) Servo horn is not centered on the servo properly.	2) Remove the screw that retains the servo horn, then remove the servo horn. Turn the remote control on, center the trim on the remote, turn the vehicle on. Then reinstall the servo horn as the instructions show.
Vehicle has become under powered or sluggish.	1) Charge level of vehicle battery has dropped below useable level.	1) Remove battery from vehicle and charge with the recommended charger. Always follow proper safety procedures when charging a battery.
Vehicle stops unexpectedly or doesn't respond to remote.	1) Charge level of remote control batteries have dropped below useable level.	1) Check the remote control low battery indicator, if necessary replace or recharge batteries. Always follow proper safety procedures when charging a battery. Never recharge alkaline batteries.
	2) A wire may have come loose from the receiver.	2) Check that the wires are all properly plugged in and in good condition.
Vehicle does not move forward or reverse when throttle is applied but audible tone comes from motor	1) Something has become bound up in the drivetrain.	1) Check the drivetrain from motor to wheels for foreign objects and debris. Removing the drivelines that connect the motor case to the differential(s) then trying to spin the wheels will allow you to more easily locate the issue.
Motor spins freely when throttle is applied but vehicle doesn't move.	1) Gear mesh in motor case was not properly set.	1) Check that the gear mesh was set according to the instructions. Gears should be about the thickness of this sheet of paper apart for proper mesh.
	2) Pinion set screw was not Properly tightened.	2) Check that the pinion set screw was tightened according to the instructions.

ARDUINO TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
<i>Vehicle is not behaving as programmed.</i>	1) Charge level of vehicle battery has dropped below useable level.	1) Remove battery from vehicle and charge with the recommended charger. Always follow proper safety procedures when charging a battery.
	2) Inputs (sensors) or Outputs (servos, ESC, etc) are wired improperly.	2) Check that each device connected to the Arduino Sensor Shield is plugged in properly. Both in polarity and into the proper port the program states.
	3) Sensor is malfunctioning.	2) Check #2, Connect Arduino to computer using USB cable, run the calibration program for each sensor on the vehicle. If the sensor value is not present, uncharacteristic or erratic the sensor may need to be replaced.
<i>Serial port "COM_" not found.</i>	1) The Arduino is not connected to the computer.	1) Connect the supplied USB cable and try again.
	2) The proper serial port was not selected in the Arduino Program.	2) Disconnect, re-connect the USB Cable then go to Tools > Serial Port then select the Arduino Uno.
<i>Light on Ping))) sensor is not cycling.</i>	1) The Ping))) sensor is not wired properly.	1) Check the wiring polarity guide for proper installation.
	2) The Ping))) sensor in not connected to the proper port.	2) Check that the sensor is plugged into the port stated in the code.
<i>QTI sensors not detecting line.</i>	1) The QTI sensor is not wired properly.	1) Check the wiring polarity guide for proper installation.
	2) The QTI sensor in not connected to the proper port.	2) Check that the sensor is plugged into the port stated in the code.
<i>Power light on Arduino Sensor Shield doesn't turn on when ESC is powered on.</i>	1) One of the connections to the Sensor Shield is shorted.	1) Check that each device connected to the Arduino Sensor Shield is plugged in properly. Both in polarity and into the proper port the program states. If the problem persists disconnect one sensor at a time till the faulty connection (sensor, servo, ESC etc.) is found, then replace.
	2) No power source is connected to the Arduino.	2) Check to make sure that it is either plugged into your computer with the USB cable or that you are using a charged battery and the ESC cable is properly connected.

<http://arduino.cc/en/Guide/Troubleshooting>



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plastic*

For technical questions or to place an order:

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Write to:

ATTN: MINDS-i Inc.
22819 East Appleway Avenue
Liberty Lake, Washington 99019

For the latest from MINDS-i visit:

minds-irobotics.com

For the most up to date version of the instructions go to:

minds-irobotics.com/instructions