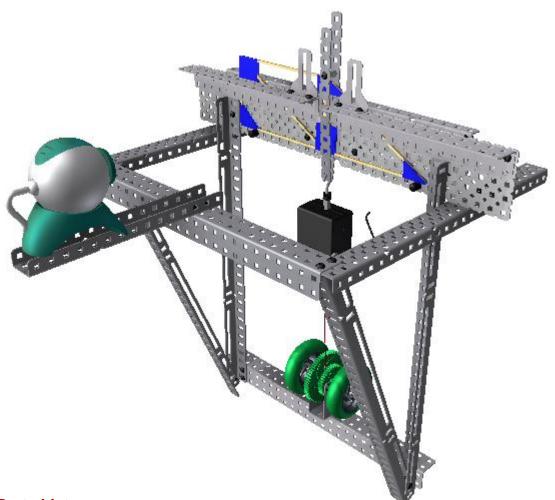


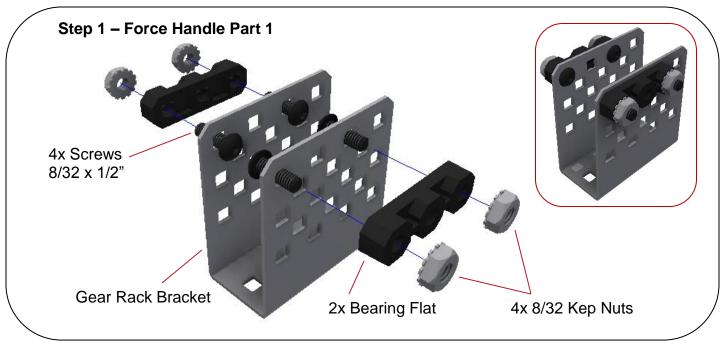
### Activity 2.1 Material Tester Assembly

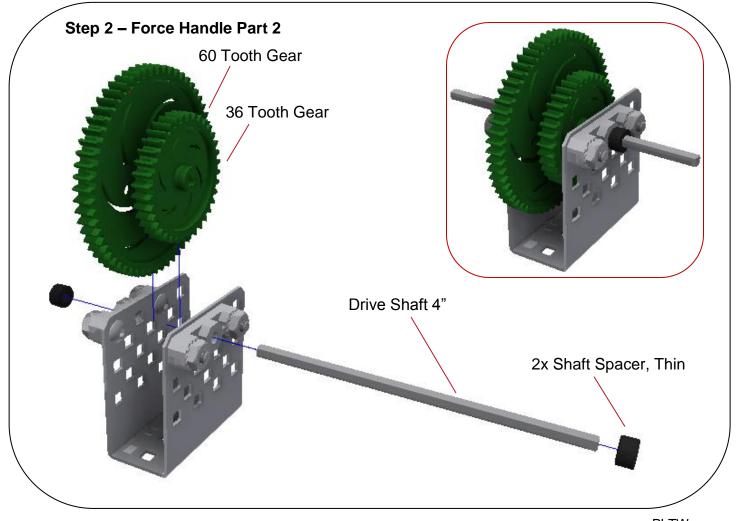


#### **Parts List**

| /      |                      |          |                                      |          | \  |
|--------|----------------------|----------|--------------------------------------|----------|----|
|        | MATERIALS            | QUANTITY | MATERIALS                            | QUANTITY | `` |
|        | Screws 8/32 x 1/4"   | 24       | Shaft Collar                         | 2        |    |
|        | Gear Rack Bracket    | 1        | Slotted Angle, 30 Holes              | 4        |    |
|        | Screws 8/32 x 1/2"   | 8        | Chassis Bumper 2x2x15 Holes          | 1        |    |
|        | Screws 8/32 x 3/4"   | 4        | Chassis Bumper 2x2x25 Holes          | 2        |    |
|        | Screws 8/32 x 1"     | 4        | Angle Gusset                         | 2        |    |
|        | Nuts, Keps           | 38       | Plate 5x15 Holes                     | 2        |    |
|        | Standoffs, 1/2" Long | 1        | C-Channel, 1x5x1x25 Holes            | 1        |    |
|        | Bearing Flat         | 2        | C-Channel, 1x2x1x25 Holes            | 2        |    |
|        | 60 Tooth Gear        | 1        | C-Channel, 1x2x1x15 Holes            | 1        |    |
|        | 36 Tooth Gear        | 1        | Bar 1x25 Holes                       | 1        |    |
|        | Shaft Spacer, Thin   | 8        | Eye Bolt ¼"–20 x 1" Length of Thread | 1        |    |
|        | Shaft Spacer, Thick  | 10       | Dual Force Sensor                    | 1        |    |
|        | Drive Shaft 4"       | 1        | Dual Force Sensor Hook               | 1        |    |
|        | Small Wheel 2 ¾"     | 2        | String                               |          |    |
| 、<br>、 |                      |          | -                                    |          |    |

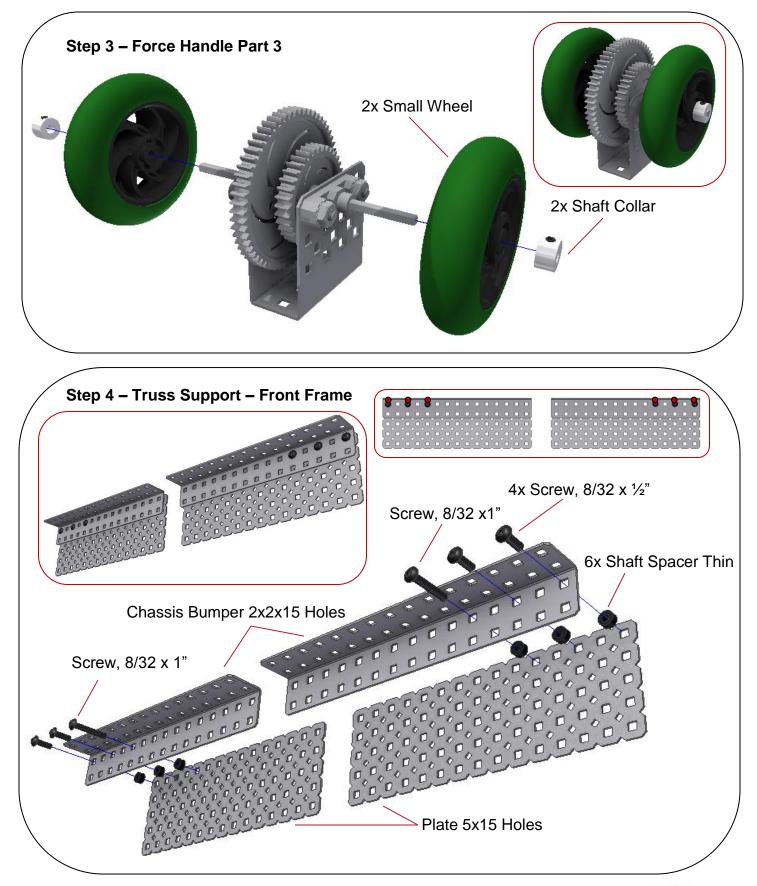


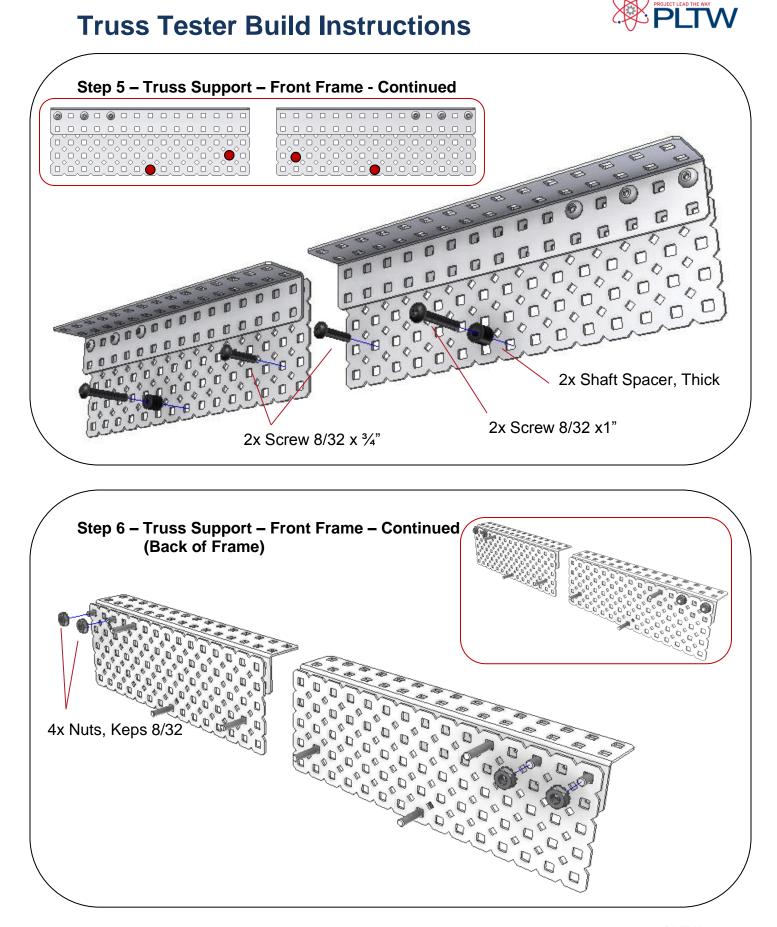




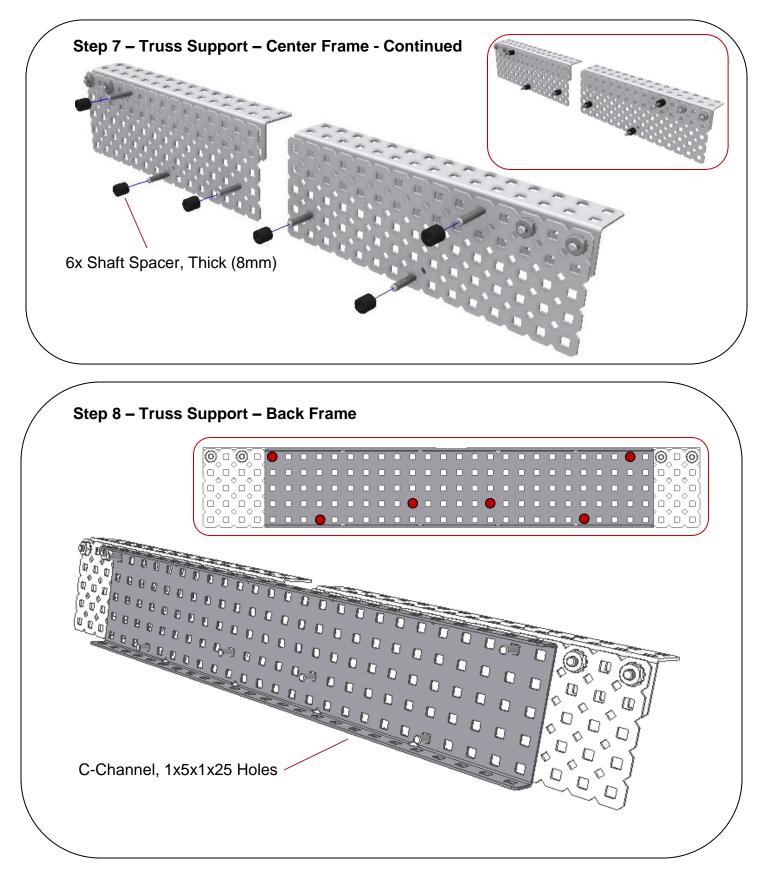
PLTW Copyright 2011 POE – Lesson 2.1 – Truss Tester Build Instructions – Page 2





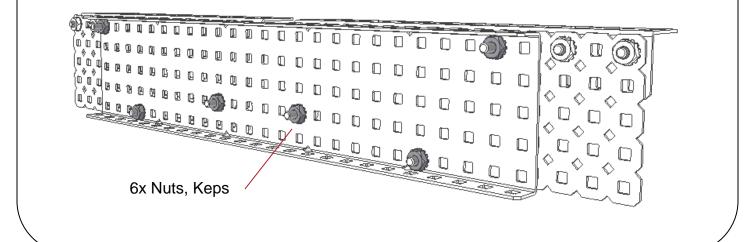


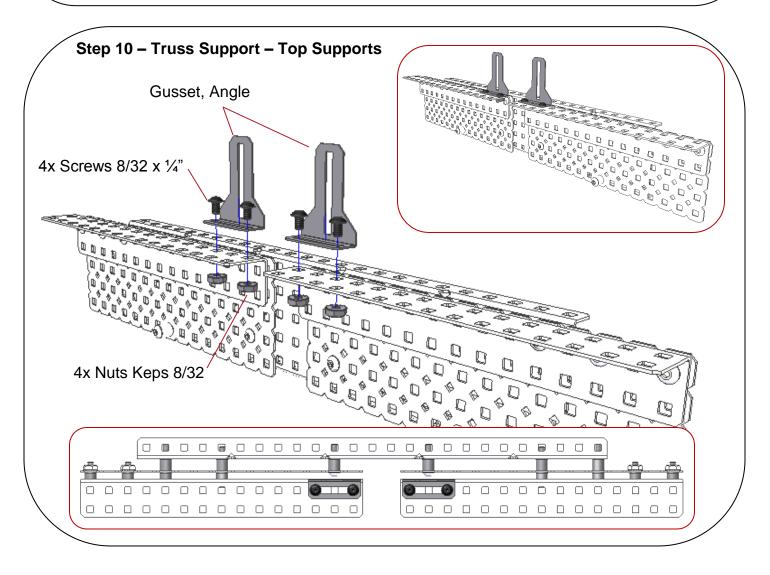






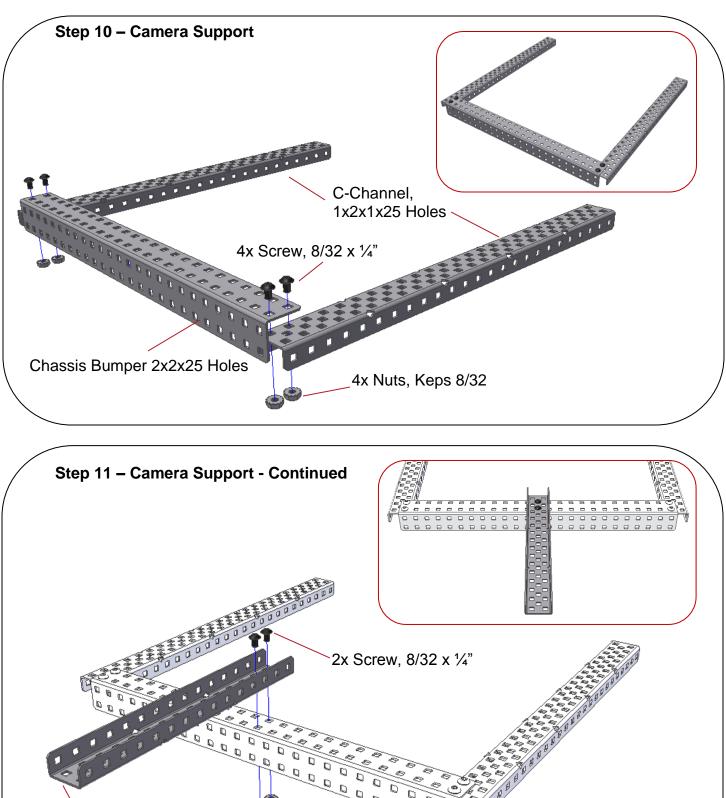
Step 9 – Truss Support – Back Frame - Continued





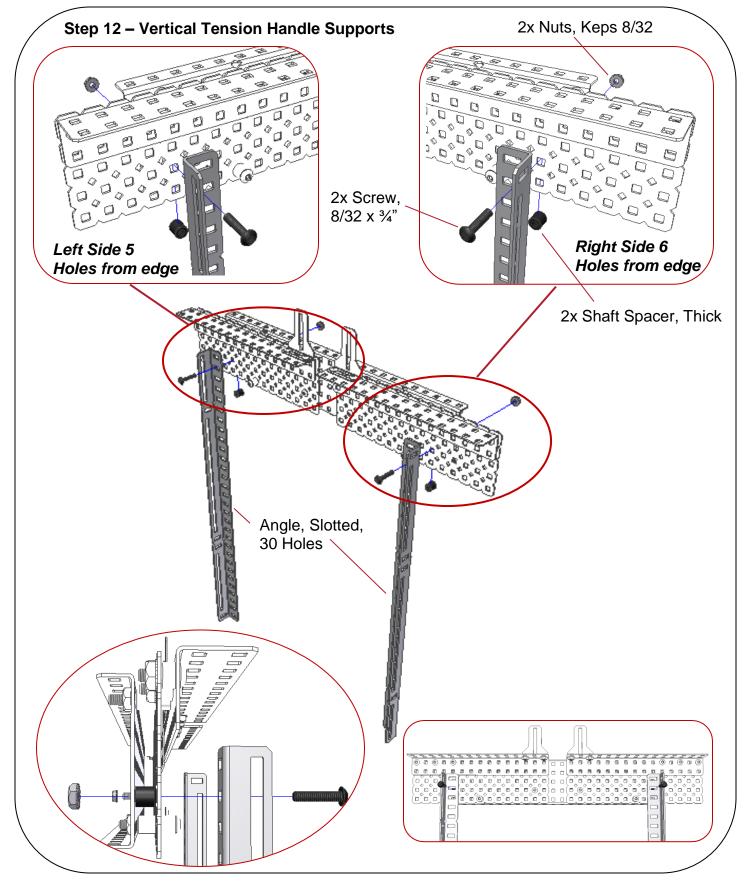
# PROJECT LEAD THE WAY

### **Truss Tester Build Instructions**



C-Channel 1x2x1x15 Holes 2x Nuts, Keps 8/32





# PROJECT LEAD THE WAY

