



112r2-210 Front End Kit

Build Guide (25.05.20.01)

WARNING! DO NOT leave this kit, assembled or unassembled, in a hot motor vehicle or any other high temperature environment. This kit is 3D printed and high temperatures will harm or destroy the components.

CONTENTS:

PARTS

- ☐ 112r2-211-220 Front Arm Set (left and right)
- ☐ 112r2-212 Front Hub Set (left and right)
- ☐ 112r2-214 Front Rocker Set (2)
 - ☐ 112r2-214-1 Front Rocker
 - ☐ 112r2-214-2 Front Cradle
- ☐ 112-215 Front Axle Adaptor (2)
- ☐ 112r2-216-5640 Toe Link (2)
- ☐ 112-218 Front Ride Height Shim Set (2)

HARDWARE KEY

BH = Button Head Screw
FH = Flat Head Screw
CH = Cap Head Screw
NyLoc = Nylon Locking Hex Nut
FW = Flat Washer
TB = Threaded Ball
TSO = Threaded Standoff
SB = Sleeve Bushing
SP = Steel Pin

HARDWARE

SCREWS

- ☐ M3x6 BH (2)
- ☐ M3x8 BH (2)
- ☐ M3x10 BH (2)
- ☐ M3x10 FH (2)
- ☐ M3x12 BH (2)
- ☐ M3x30 BH (2)
- ☐ M3x8 CH (1)

NUTS, WASHERS & OTHER

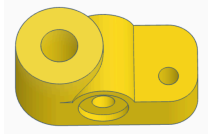
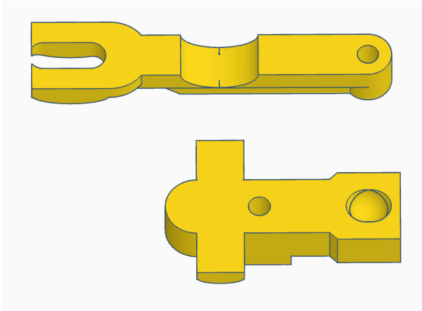
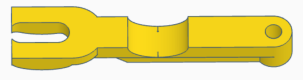
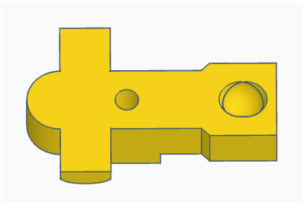
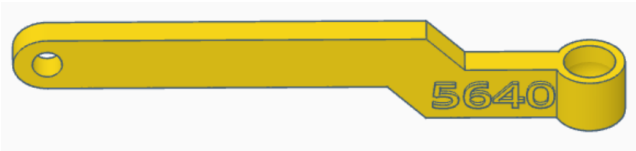
- ☐ M3 Nut (2)
- ☐ M3 Nyloc (2)
- ☐ M3x0.5 Washer (12)

- ☐ M3x.5 FW (4)
- ☐ 3x25 SP (2)
- ☐ M3x5.5 TB (2)
- ☐ 3/16 x 5/16 x 1/8 Flanged Bearing (4)
- ☐ 3x5x5 SB (4)
- ☐ Kimbrough #201 Servo Saver

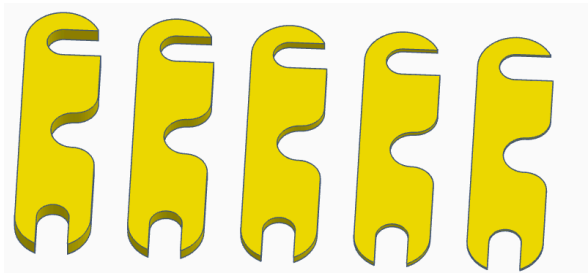
WHERE / HOW USED

- ☐ 3x5x5 SB (4) - front hubs
- ☐ 3/16 x 5/16 x 1/8 Flanged Bearing (4) - wheel bearings
- ☐ M3x10 BH (2) - front arm - secure kingpin
- ☐ M3x8 BH (2) - toe link to front hub
- ☐ M3x10 FH (2) cradle to arm
- ☐ M3x6 BH (2) - through servo saver into M3x5.5 BS (2)
- ☐ M3x8 CH (1) - servo saver to servo
- ☐ M3x30 BH (2) - axles
- ☐ M3x.5 FW (4) - axle width spacers
- ☐ M3 Nut (2) - axles to hubs
- ☐ M3 Nyloc (2) - axle to hold wheel on
- ☐ 3x25 SP (2) - kingpin
- ☐ M3x12 BH (2) - adjustable pivot through rocker end
- ☐ M3 Washer - use as needed for Front Wheel Shims and Front Droop Limiters

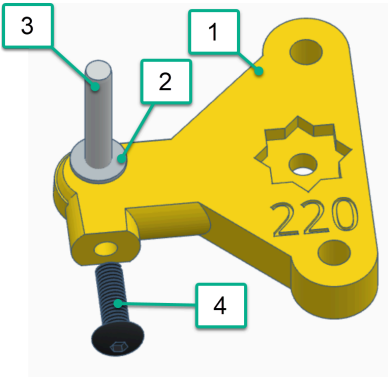
PARTS:

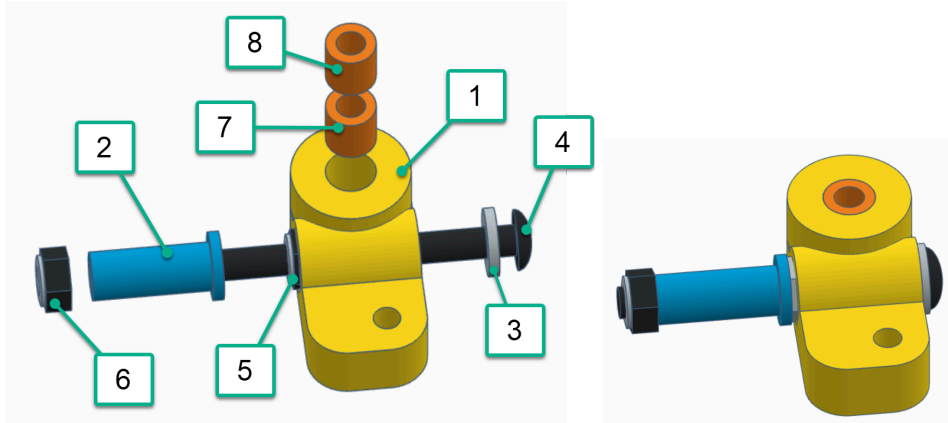
112r2-211 Front Arm	
112r2-212 Front Hub	
112r2-213 Front Droop Limiter	Use M3x0.5 Washers
112r2-214 Front Rocker Set	
112r2-214-1 Front Rocker	
112r2-214-2 Front Cradle	
112-215 Front Axle Adaptor	
112r2-216-5650 Toe Link	
112r2-217 Wheel Shim Set	Use M3 Washers

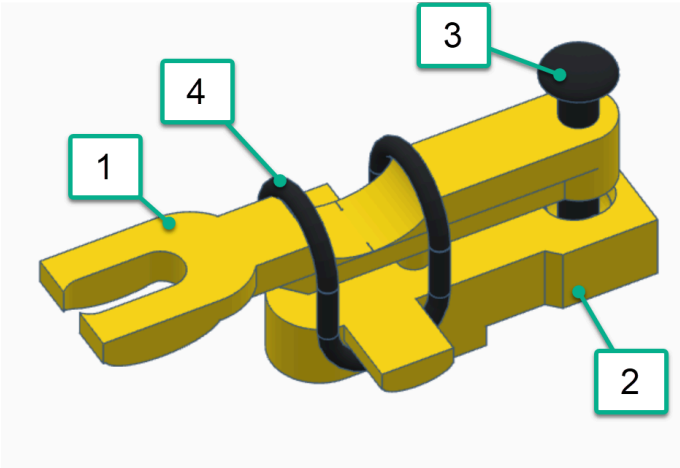
112r2-218 Front Ride Height Shim
Set

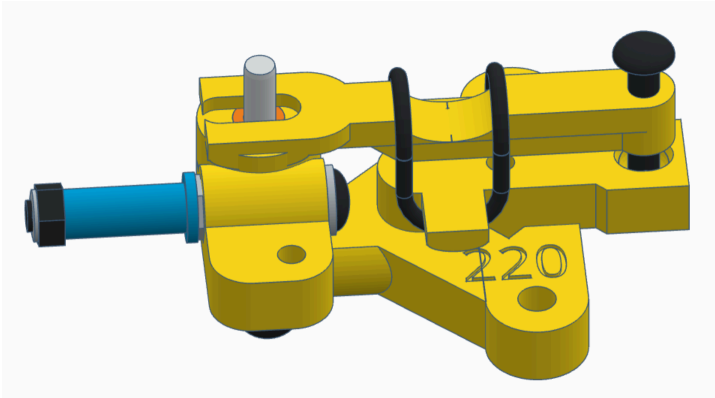


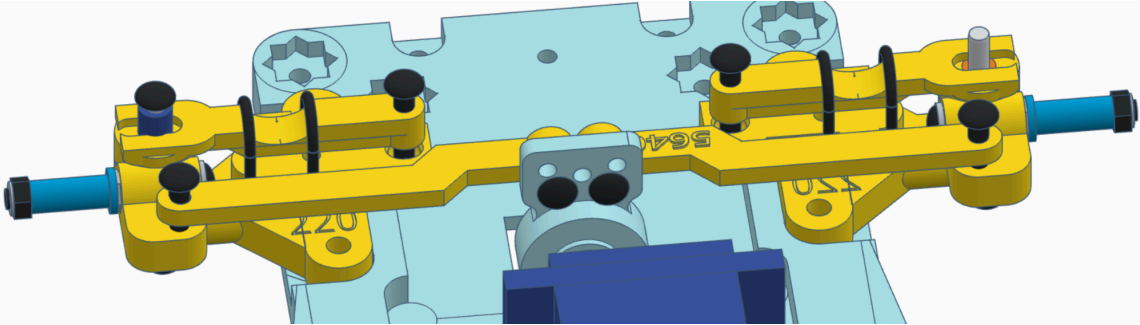
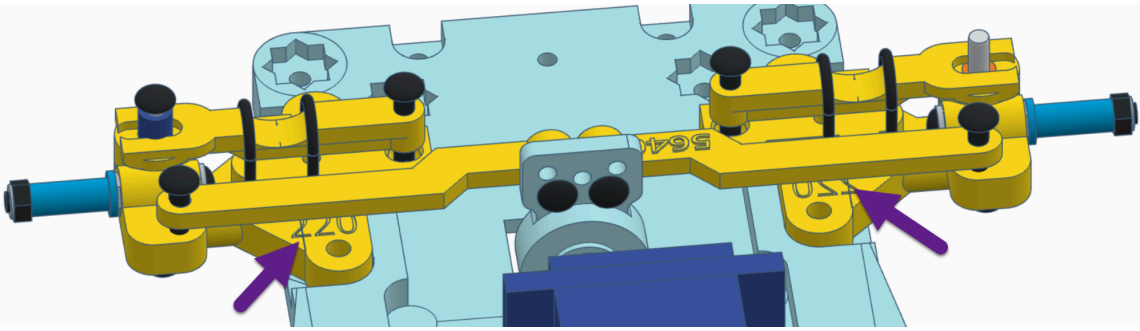
ASSEMBLY INSTRUCTIONS START HERE:

Front Arm & Kingpin	
PARTS	1) Front Arm 2) M3x0.5 Washer (at least 1. use more for droop limiting) 3) 3x25 SP (kingpin) 4) M3x10 BH to secure kingpin
Assembly STEPS:	
1	☐ Press Steel Pin (kingpin) into Arm until flush on bottom ☐ Insert BH to secure kingpin

B-Style Front Hub	
PARTS	1) Front Hub 2) Front Axle Adaptor 3) M3x0.5 FW (Use 2, only 1 shown in photo) 4) M3x30 BH (axle) 5) M3 Nut 6) M3 NyLoc 7) 3x5x5 SB 8) 3x5x5 SB
Assembly STEPS:	
1	Press the 2 3x5x5 SB (#7 & #8) into front hub (#1) from top until flush
2	Assemble items #4, #3, #3, #1, #5 and tighten, use 2 washers (#3) whereas only 1 is shown
3	Thumb thread front axle adaptor #2 onto axle
4	Sparingly add diff gear grease to kingpin as dampening
5	Add desired droop limit spacer to kingpin. <i>It's recommended to start with ONE limiter.</i>
6	Slide assembled hub onto kingpin
8	Repeat for right side

Front Rocker Arm	
PARTS	1) 112r2-214-1 Front Rocker 2) 112r2-214-2 Front Cradle 3) M3x12 BH 4) Zer0-Ring(s)
Assembly STEPS:	
1	Install M3x12 BH through rocker end, sets in pocket of cradle
2	Install Zer0-Ring(s) as seen in image (use 1 to 3 as needed for track tuning)
3	Repeat for second rocker assembly

Front Arm, Rocker, and Hub	
PARTS	1. Cradle & Rocker Assembly 2. Hub Assembly 3. Front Arm
Assembly STEPS:	
1	Insert cradle with rocker assembly into top of arm assembly
2	Fasten using a Flat Head screw (not shown) from bottom side up through arm into cradle
3	Repeat for right side

Front Arm, Rocker, and HUB Assembled on Chassis	
	
NOTES	1) Assembled Arms 2) Servo Saver 3) M4x12 FH (4) 4) M3x6 BH (2) 5) M3x5.5 TB (2)
Assembly STEPS:	
NOTES	6) Arrows show you that there is a LEFT and a RIGHT Arm Assembly. a) LEFT = number indicator "220" not mirrored b) RIGHT = number indicator "220" is mirrored
1	Use M4x12 FH to fasten arms to chassis (insert screws from bottom of chassis)
2	Use M3x6 BH through back of servo saver into M3x5.5 TB on front side of servo saver a. Do this using the lower set of holes on the servo saver. b. 2 times
3	Press Toe Links onto the TBs
4	Fasten ends of Toe Links to Front Hubs using a M3x8 BH, DO NOT Tighten c. Leave a little looseness so the Toe Links can pivot for steering as needed