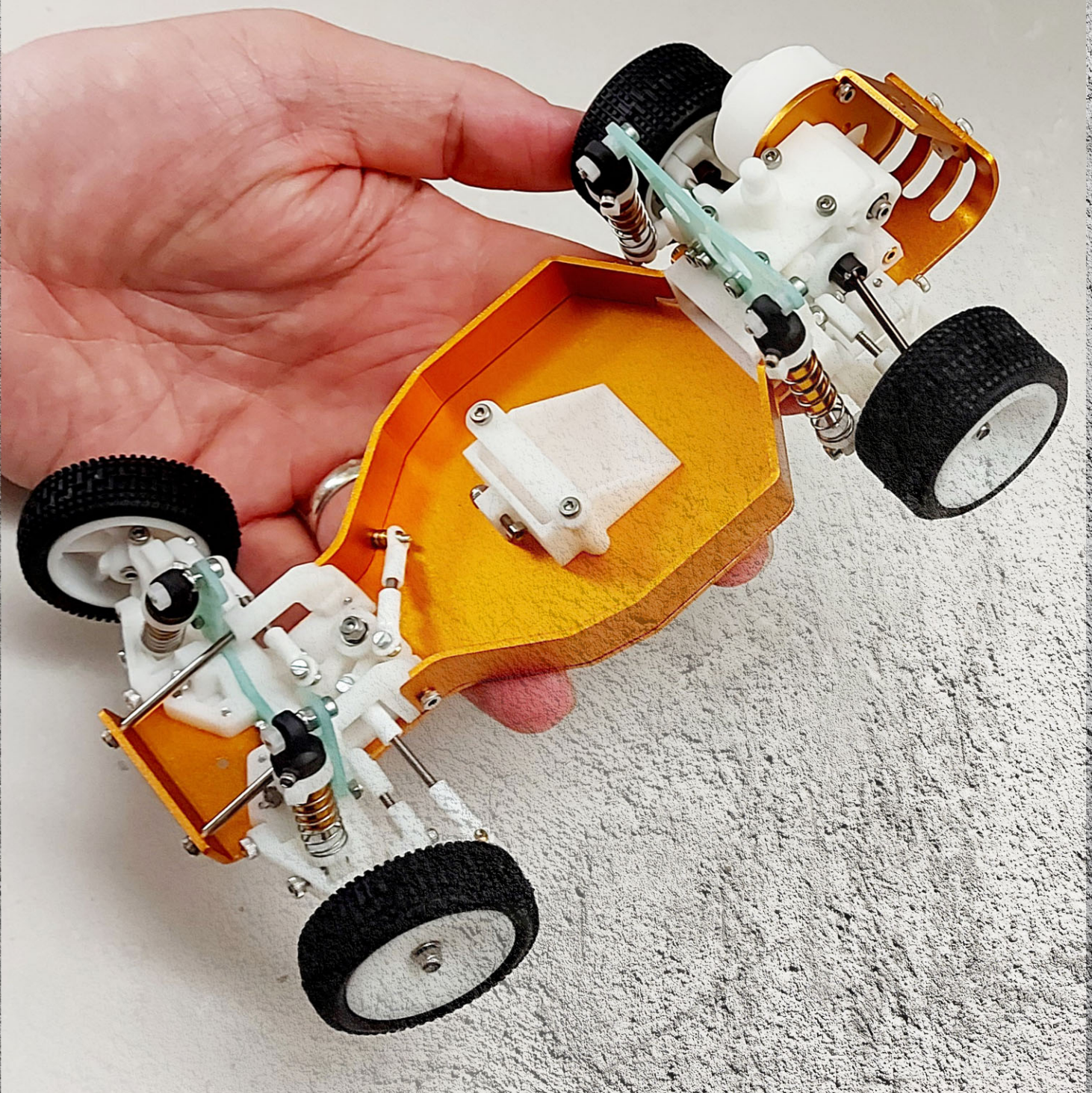
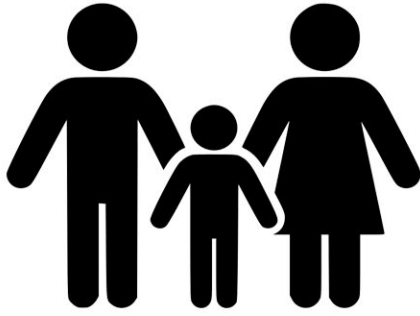


24

USER MANUAL V3 - **GOLD KIT**

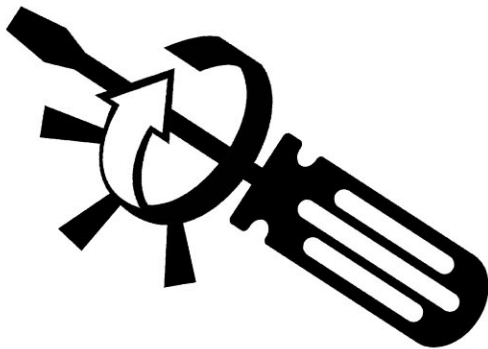




**Keep away from children.
This kit contains many small
parts and choking hazards**



**Please be advised that whilst
the resin 3D printed parts are
cured & safe, they should
never be swallowed!
(I hope this goes without saying !)**



**Do not overtighten parts !
3D printed parts are more
vulnerable to overtightening.
Avoid excessive removal/
reattaching of screws.**



**The washing/ curing process of
the resin 3D printed parts may
leave some areas tacky or
sticky. Please use wet wipes
(industrial grade are best) on
these areas to help the issue**



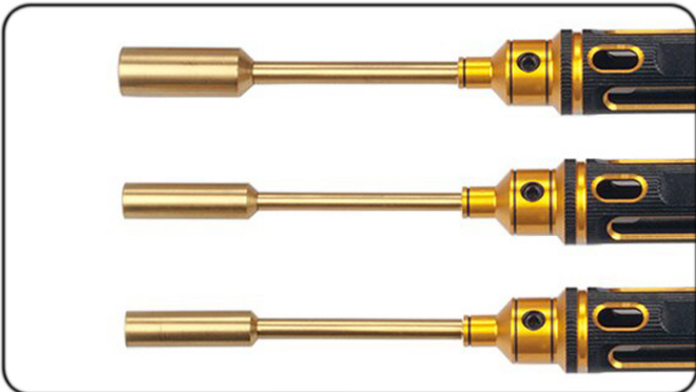
**Not sure about something?
Ask us!
hello.nrcprojects@gmail.com
[Facebook.com/NRCProjects](https://www.facebook.com/NRCProjects)**



DRIVERS-
***0.9MM HEX**
***1.5MM HEX**
***PH 0 SIZE PHILLIPS**
***APPROX 0.5MM SLOT**
FLAT HEAD



PIN VISE/PIN DRILL
DRILL BITS-
***1.5MM**
***2MM**



M2 NUT DRIVER-
***4MM**
***4.5MM (FOR LARGER M2**
LOCKNUTS)



SMALL PLIERS
SMALL BOLT CUTTERS



BODYSHELL REAMER
LEXAN SCISSORS

**TOP SHAFT PARTS
(BLACK PARTS ARE
NOT REQUIRED)**

DIFF PARTS

**M3
WASHER**



**M2
WASHER**



**3X6X2.5MM
BEARINGS**



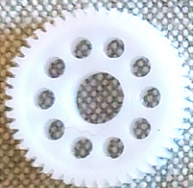
M2X6MM



M2 LOCKNUT



**SPUR
GEAR**



**OUTER
ADAPTOR**



INNER ADAPTOR



**M2X
6MM**



M2X16MM

GEARBOX HALVES



**MOTOR
PLATE**

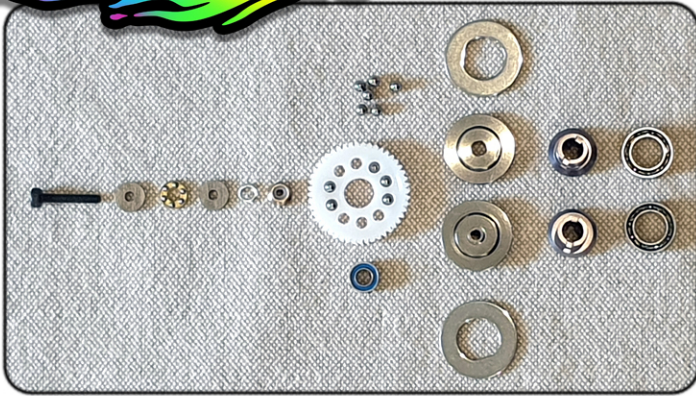


M2 NYLON NUT

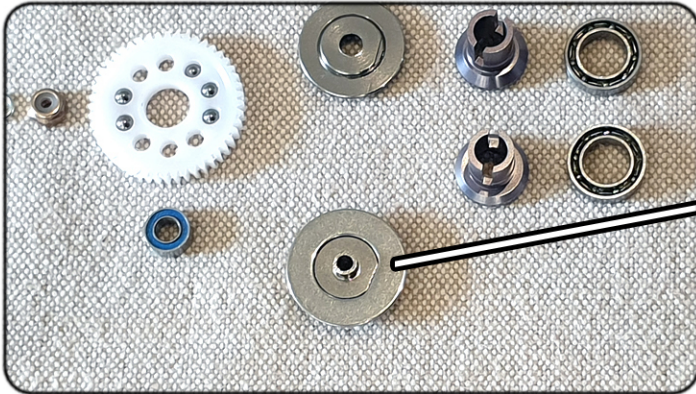


M2X5MM

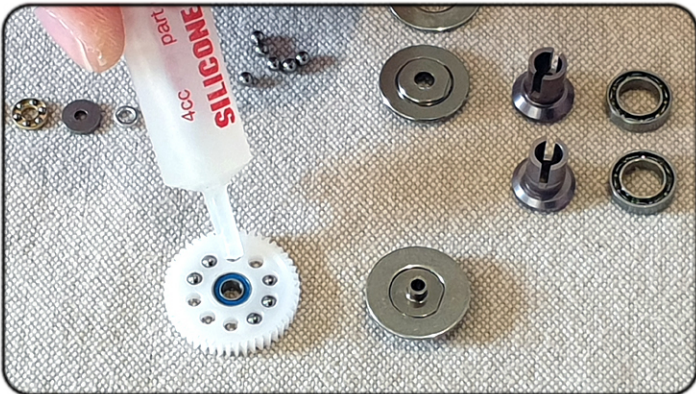




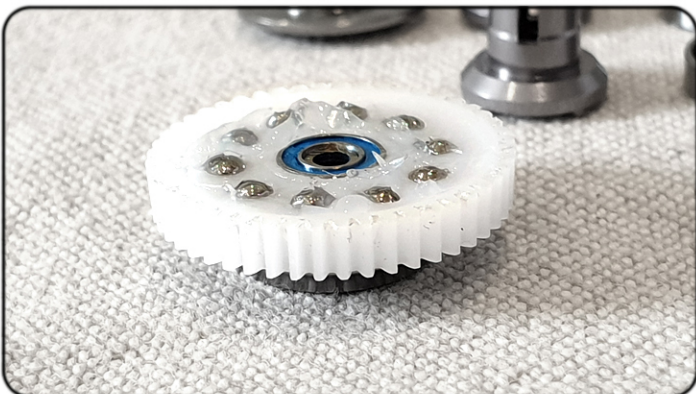
OPEN BALL DIFF BAG, BE CAREFUL NOT TO LOSE THE DIFF BALLS!



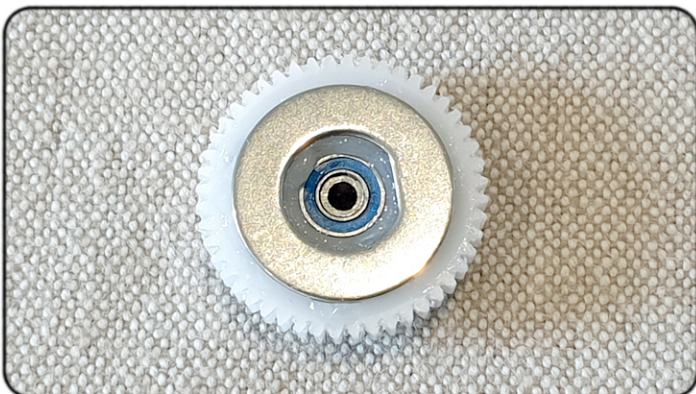
ADD 'D' SHAPED RING TO DIFF HUB



ADD DIFF BALLS, BEARING & SILICONE GREASE TO DIFF GEAR



ADD DIFF GEAR TO DIFF HUB



ADD 'D' RING TO DIFF GEAR & HUB



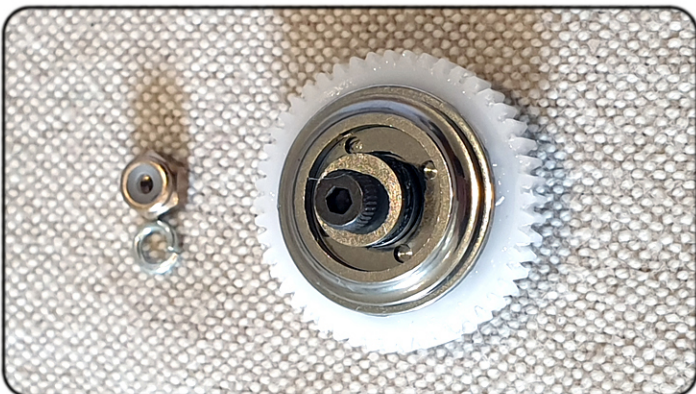
ADD DIFF HUB TO ASSEMBLY



ADD BLACK GREASE TO THRUST RACE ASSEMBLY



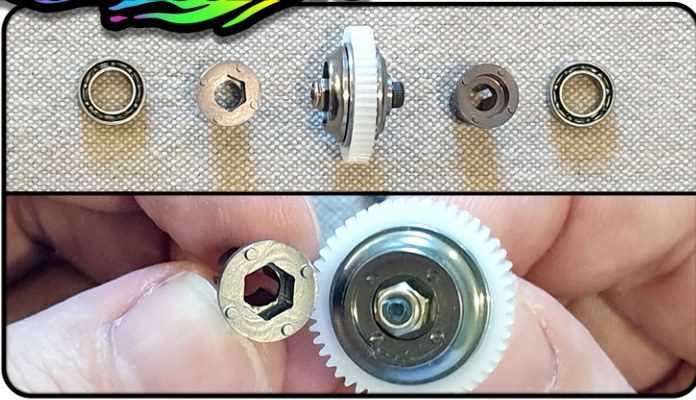
ADD WASHER TO COMPLETE THRUST RACE ASSEMBLY



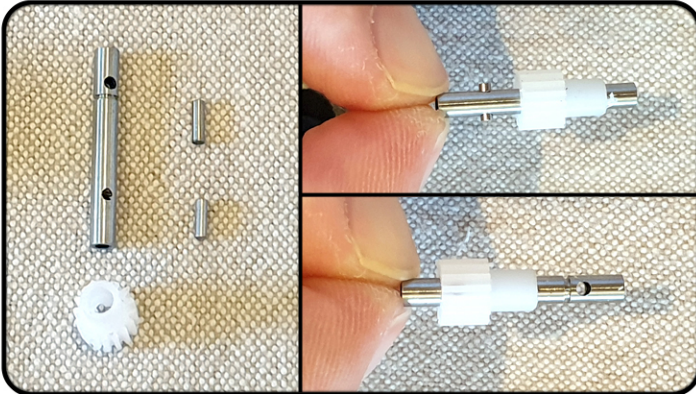
ADD THRUST RACE TO DIFF ASSEMBLY



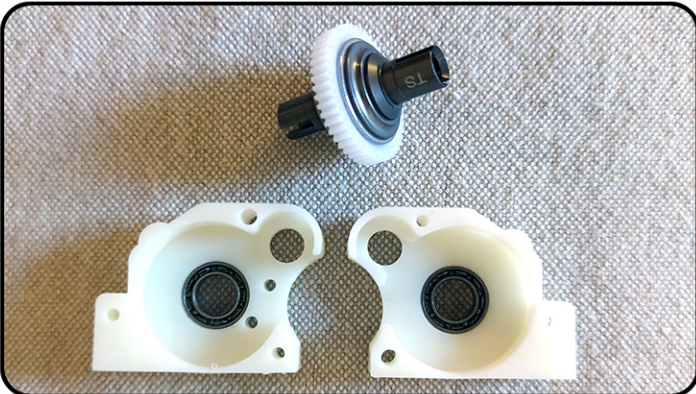
ADD LOCKNUT TO DIFF ASSEMBLY WITH SPRING WASHER BEHIND IT



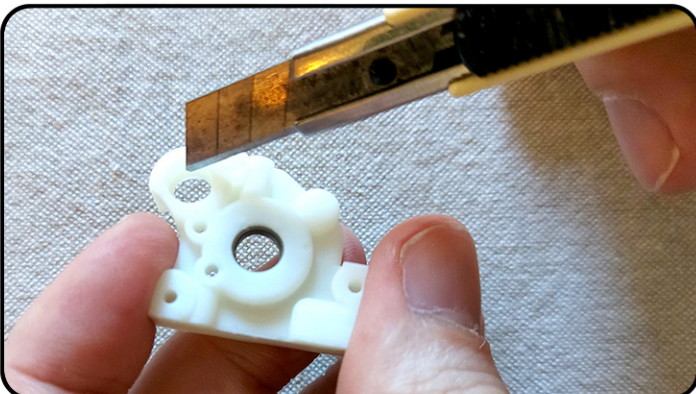
**INSERT OUTDRIVES INTO
DIFF ASSEMBLY (LEAVE
BEARINGS FOR NOW)**



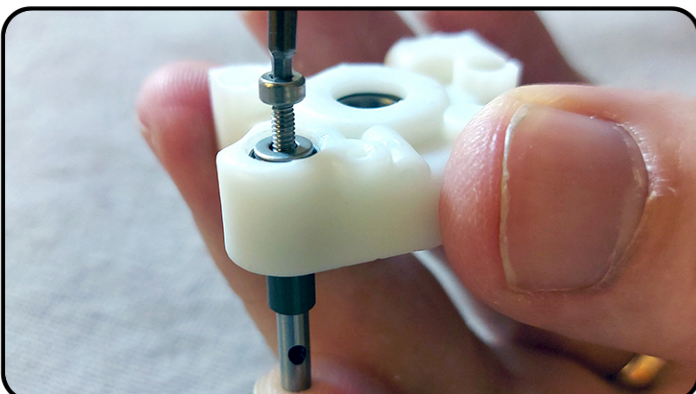
****TOP SHAFT GEAR IS NOW ALLOY
OPEN TOP SHAFT BAG,
ASSEMBLE SHORTER PIN &
GEAR ONTO SHAFT**



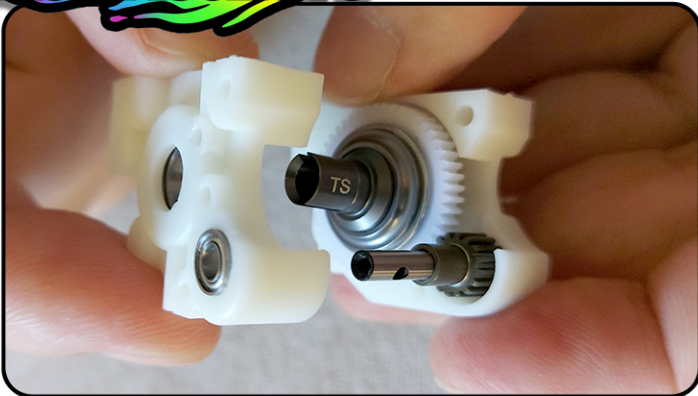
**ADD DIFF BEARINGS TO
GEARBOX CASE HALVES**



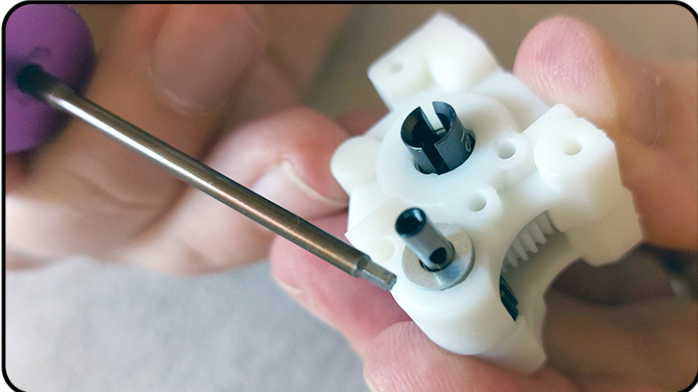
**INSERT 3X6X2.5MM BEARINGS
INTO TOP SHAFT HOLES. IF BEARINGS
ARE TIGHT, USE A KNIFE TO REMOVE
SOME MATERIAL FROM OUTER EDGE**



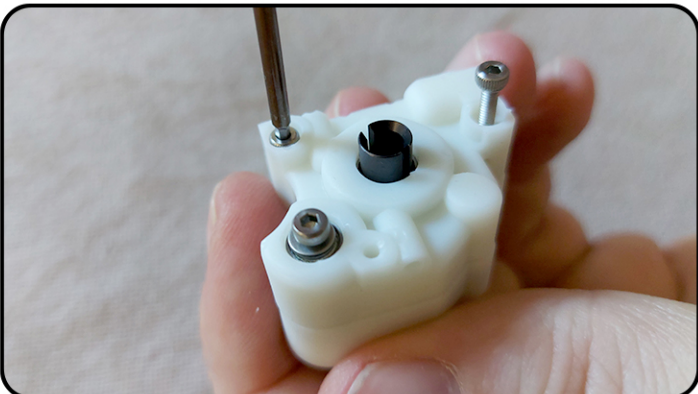
**INSERT TOP SHAFT & GEAR INTO
GEARBOX LEFT SIDE. FIX TOP
SHAFT WITH M2X6MM SCREW &
M2 METAL WASHER**



**INSERT DIFF & ASSEMBLE
GEARBOX HALVES TOGETHER**



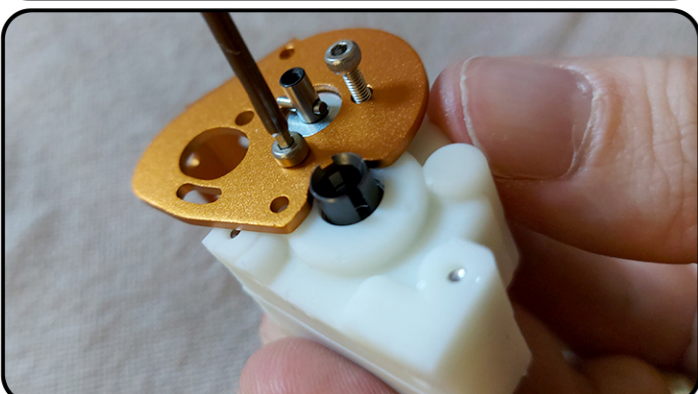
ADD M3 WASHER TO TOP SHAFT



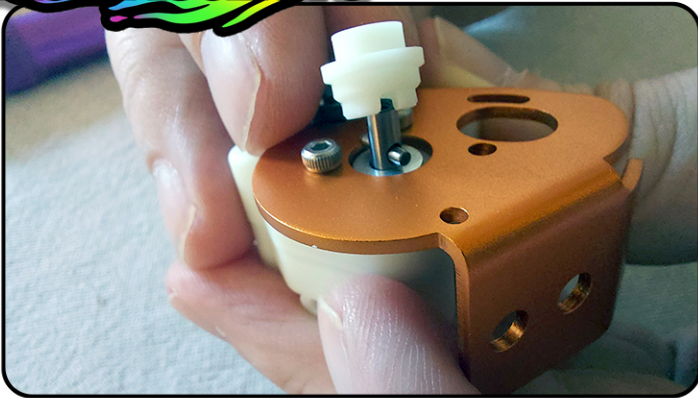
**FIX GEARBOX TOGETHER WITH
TWO M2X16MM SCREWS**



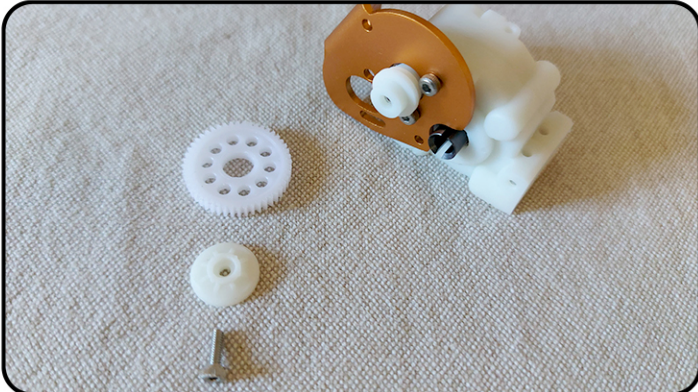
**INSERT TOP SHAFT PIN USING SMALL
PLIERS OF TWEEZERS**



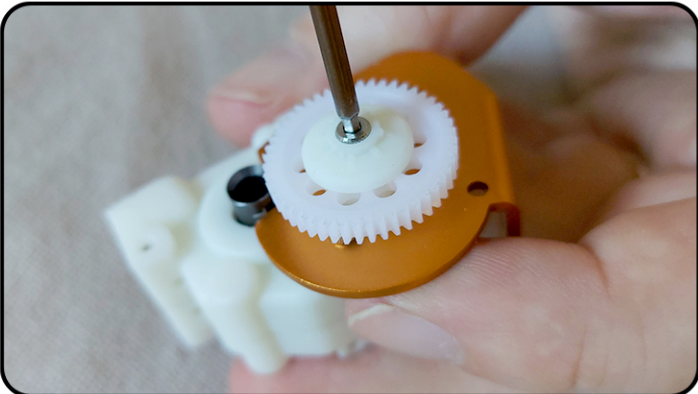
**INSERT M2X6MM SCREW INTO HOLE
SHOWN & INSERT M2X16MM SCREW
INTO UPPER HOLE**



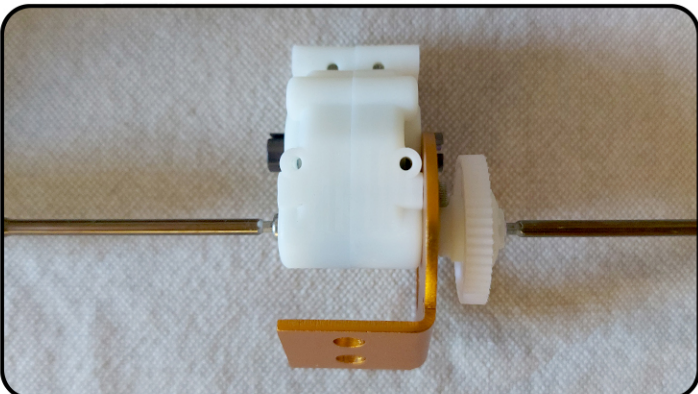
PUSH INNER ADAPTOR ONTO TOP SHAFT AND OVER PIN



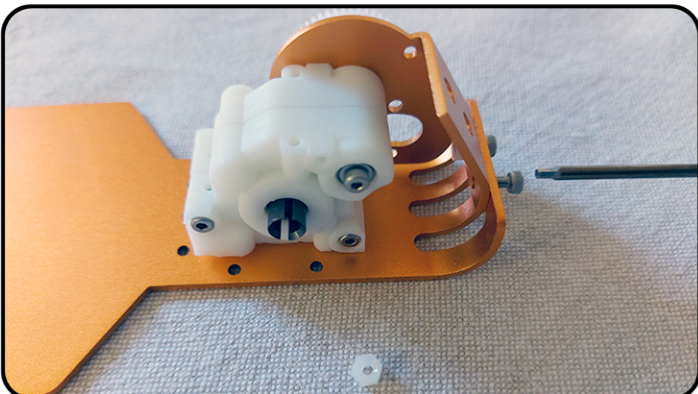
ASSEMBLE SPUR GEAR, OUTER ADAPTOR AND M2X6MM SCREW



ATTACH TO TOP SHAFT



TIGHTEN TOP SHAFT END SCREWS AT SAME TIME.



ATTACH COMPLETE GEARBOX TO MAIN CHASSIS PLATE. FIX LOOSELY WITH M2X5MM SCREWS & M2 NYLON NUTS. FULLY TIGHTEN WHEN REAR END IS 100% COMPLETE

**FRONT BODY POST
(LONG VERSION)**



**M2X6MM
COUNTERSUNK**



**ROD
ENDS**



**BATTERY
BRACE**



M1.4X10MM



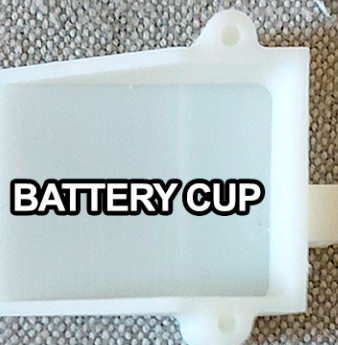
M2X14MM



GRUBSCREWS



M2 LOCKNUTS



BATTERY CUP

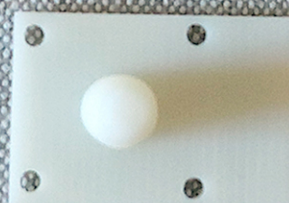
M2X6MM

COUNTERSUNK



M2X6MM

GEARBOX BRACE



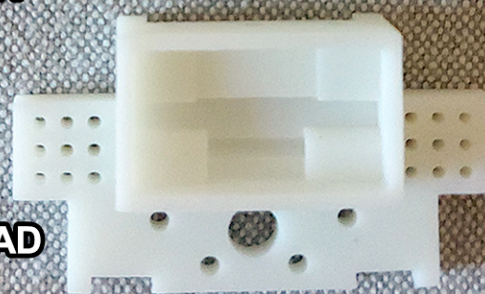
M2X5MM



M2X6MM

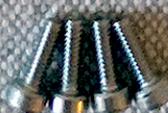


**STEERING BELLCRANK
(SHORT VERSION)**

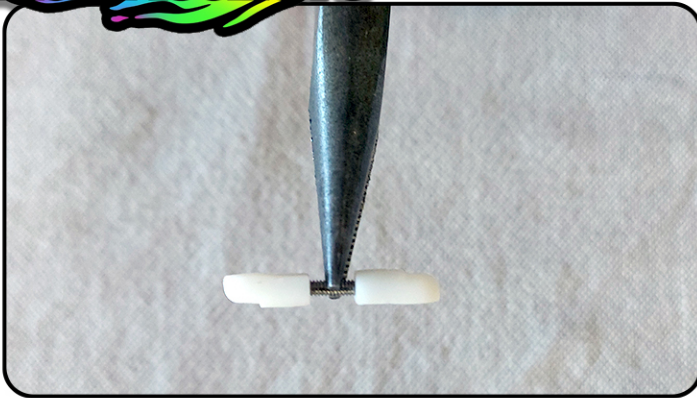


REAR BULKHEAD

M2X6MM COUNTERSUNK



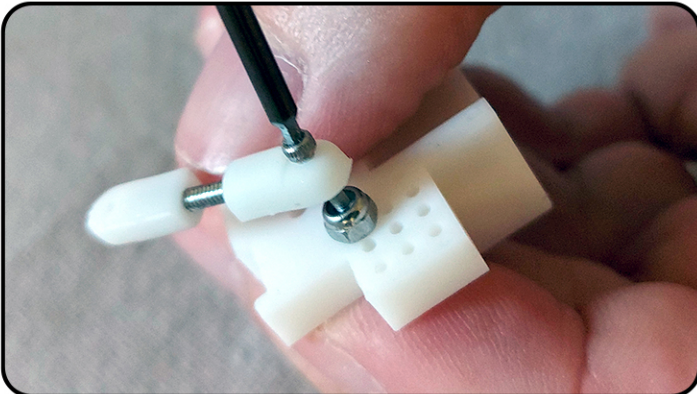
M2X6MM



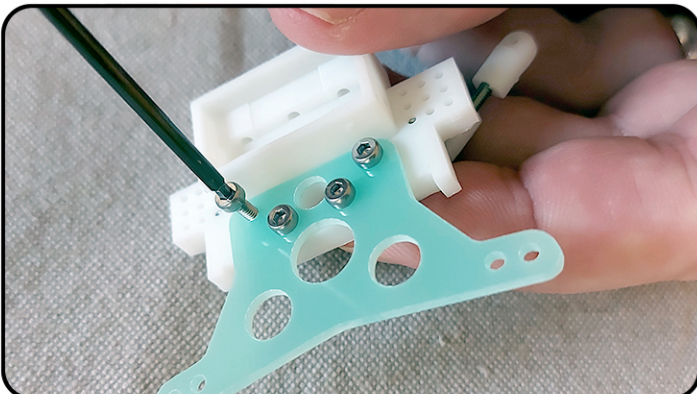
**ASSEMBLE ROD ENDS ONTO
M2X14MM GRUB SCREWS. LEAVE
APPROX 5MM BETWEEN ROD ENDS**



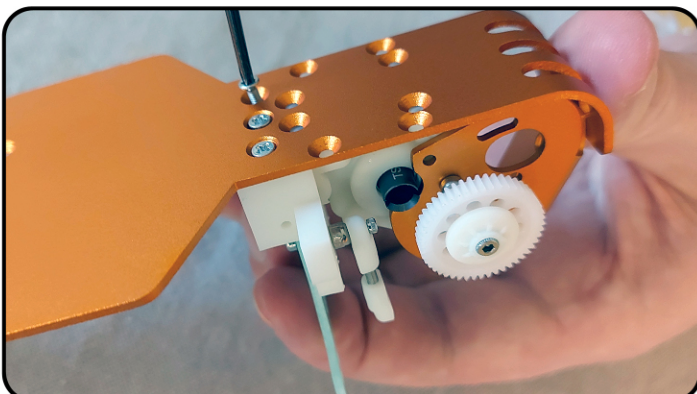
**USE PIN DRILL TO MAKE 1.5MM
DIAMETER HOLE IN BOTH ENDS OF
EACH REAR TURNBUCKLE**



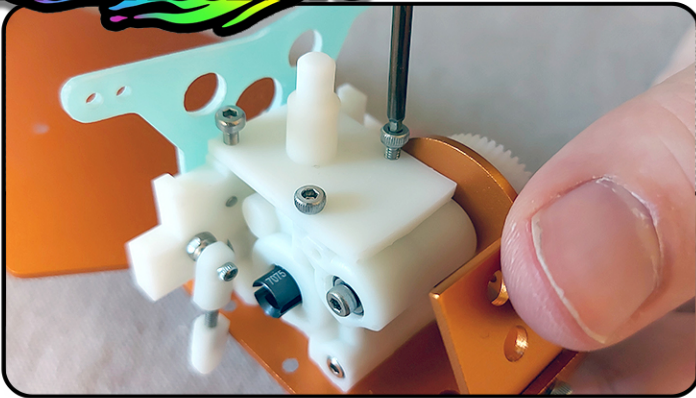
**ATTACH TURNBUCKLES TO BACK OF
REAR BULKHEAD USING M1.4X10MM
SCREWS, USING M2 LOCKNUTS AS
SPACERS**



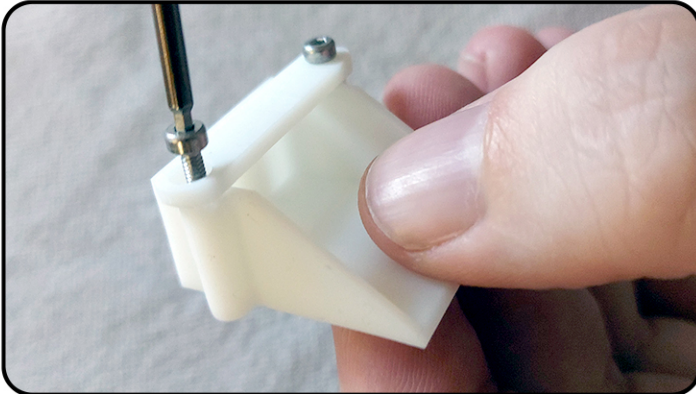
**ATTACH REAR SHOCK TOWER (FROM
PARTS BAG 4) TO REAR BULKHEAD
USING MX6MM SCREWS**



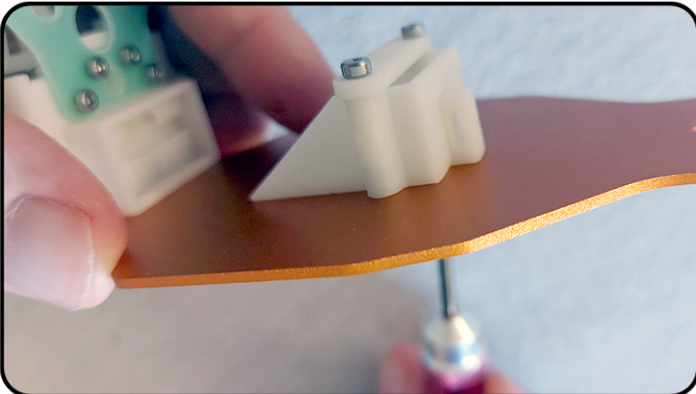
**ATTACH REAR BULKHEAD TO MAIN
CHASSIS PLATE USING M2X6MM
COUNTERSUNK SCREWS**



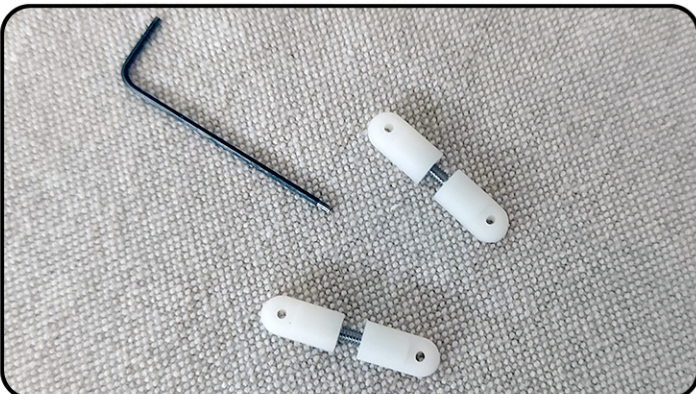
**ATTACH GEARBOX BRACE TO REAR.
*USE MX6MM SCREWS AT FRONT,
AND M2X5MM SCREWS AT REAR OF
GEARBOX BRACE**



**ATTACH BATTERY BRACE TO
BATTERY CUP. DO NOT TIGHTEN
FULLY, YOU NEED TO BE ABLE TO
TURN/ROTATE BATTERY BRACE**



**ATTACH ASSEMBLED BATTERY CUP
TO MAIN CHASSIS USING M2.6MM
COUNTERSUNK SCREWS**



**ASSEMBLE FRONT UPPER LINKS
USING ROD ENDS AND M2X10MM
GRUB SCREWS (USE THE SCREWS
FROM PARTS BAG 4). LEAVE APPROX.
2.8MM GAP BETWEEN ROD ENDS.
*YOU WILL ATTACH THESE LATER
IN THE USER MANUAL**

FRONT SPINDLE

M2 LOCKNUT

M2 LOCKNUT

2X5X2.5MM BEARINGS

3X6X2.5MM BEARINGS

M2X12MM

M2X14MM

REAR HUB

SWING SHAFT AXLE

M2X1MM PLASTIC WASHERS

FRONT C-HUB

M2X14MM GRUB SCREW

M2 WASHER

M2X14MM BUTTON HEAD SCREWS

FRONT ARM

REAR ARM

M1.4X10MM

SHOCK BOTTOMS

M2X22MM

M2 LOCKNUTS

M2X30MM

SHOCK COLLARS

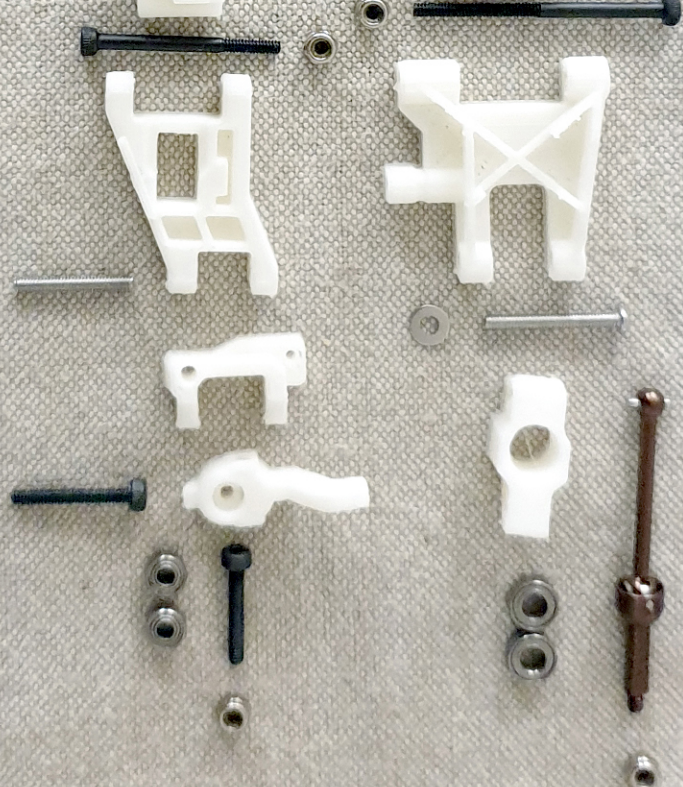
FRONT ARM MOUNTS

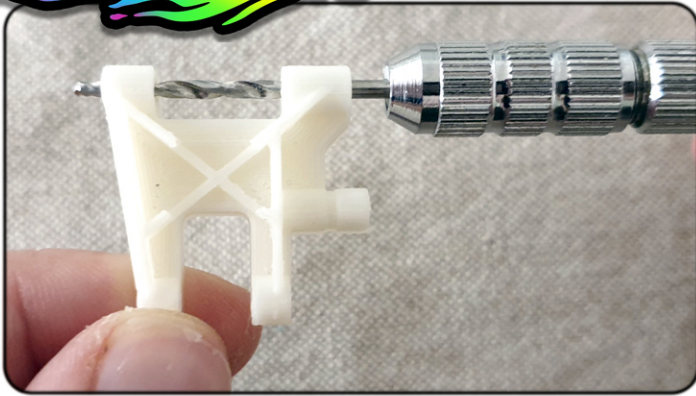
M2X6MM COUNTER-SUNK

REAR ARM MOUNTS

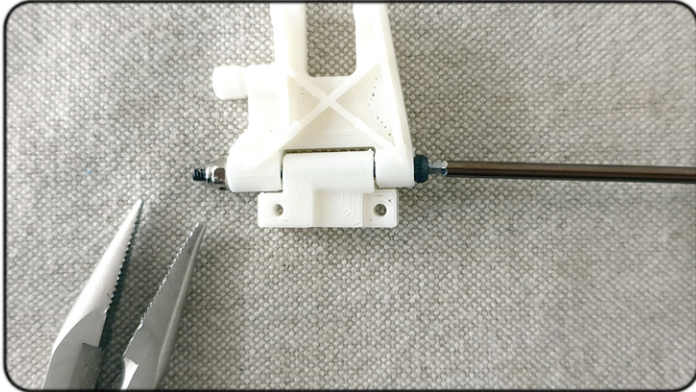
M2X6MM COUNTERSUNK

M2X5MM COUNTERSUNK

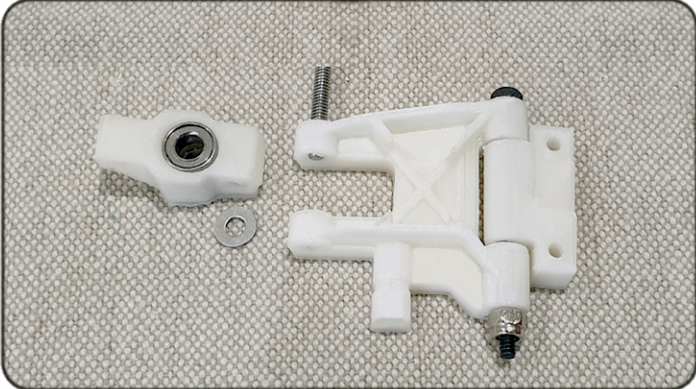




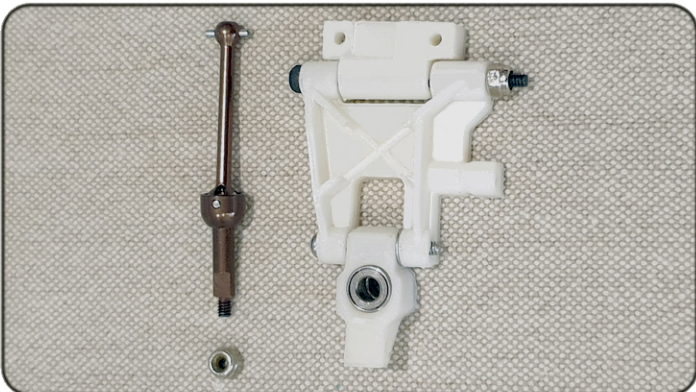
**REAM REAR ARMS INNER HOLE WITH
2MM PIN DRILL BIT**



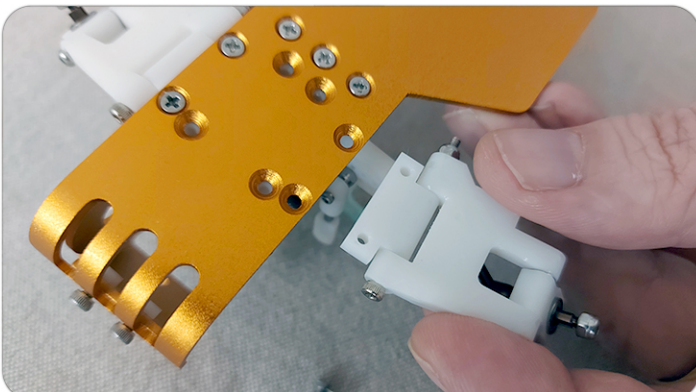
**ATTACH REAR ARM & REAR ARM
MOUNT WITH M2X30 & M2 LOCKNUT.
TIGHTEN LOCKNUTS**



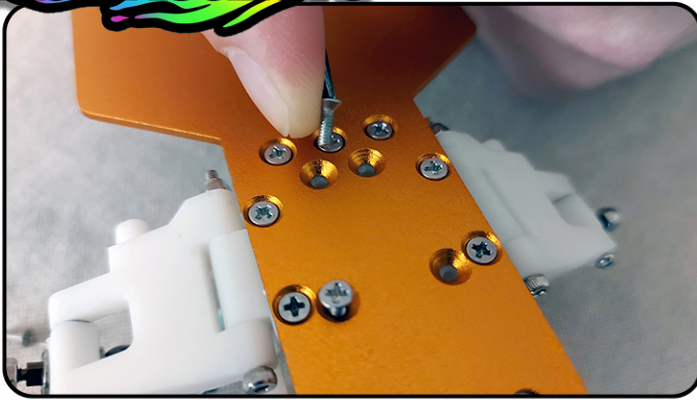
**ATTACH REAR HUB TO REAR
ARM WITH M2X14MM SCREW
& M2 WASHER**



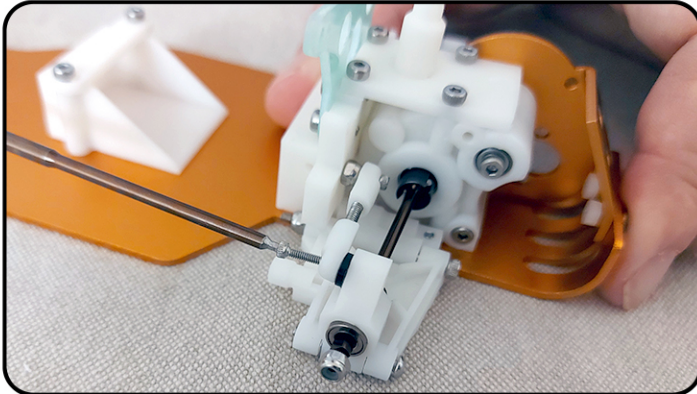
**INSERT SWING SHAFT THROUGH
REAR HUB & ATTACH M2 LOCKNUT**



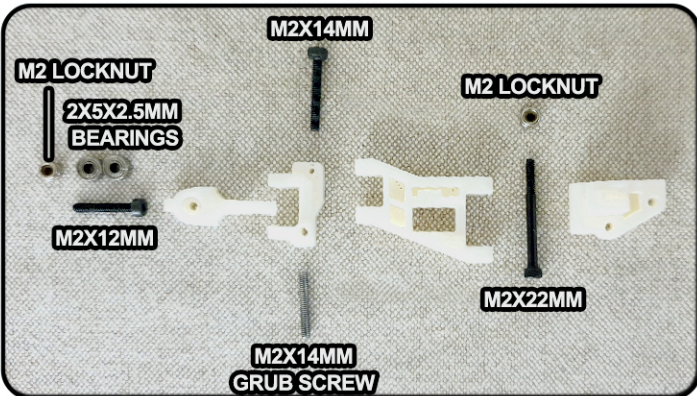
**ATTACH REAR ARM ASSEMBLIES
TO MAIN CHASSIS USING;
*M2X6MM AT FRONT, AND
*M2X5MM AT REAR OF ARM MOUNTS**



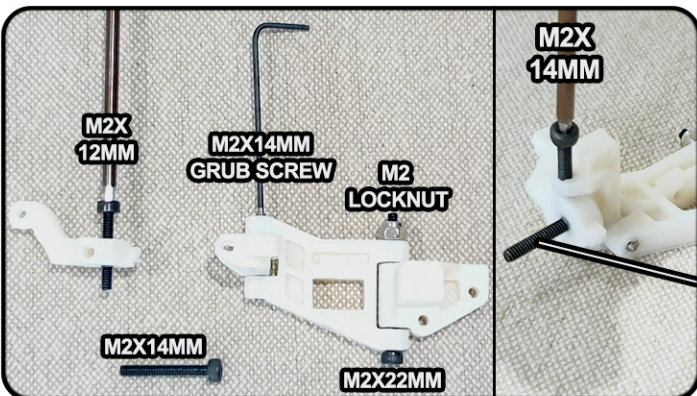
ATTACH GEARBOX TO MAIN CHASSIS PLATE WITH M2X6MM COUNTERSUNK SCREWS



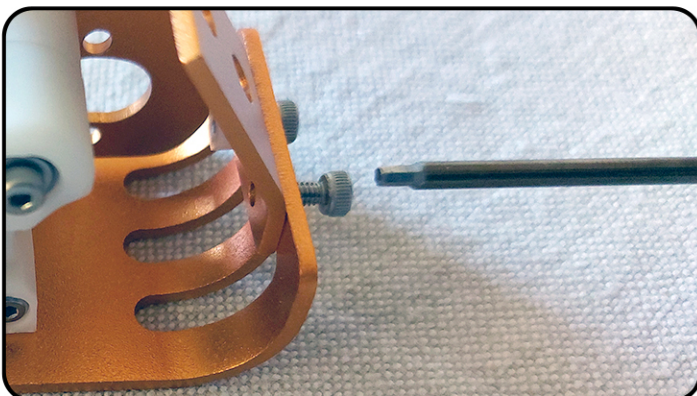
ATTACH OUTER ROD END TO REAR HUB WITH M1.4X10MM SCREWS AND BLACK M2 PLASTIC WASHER



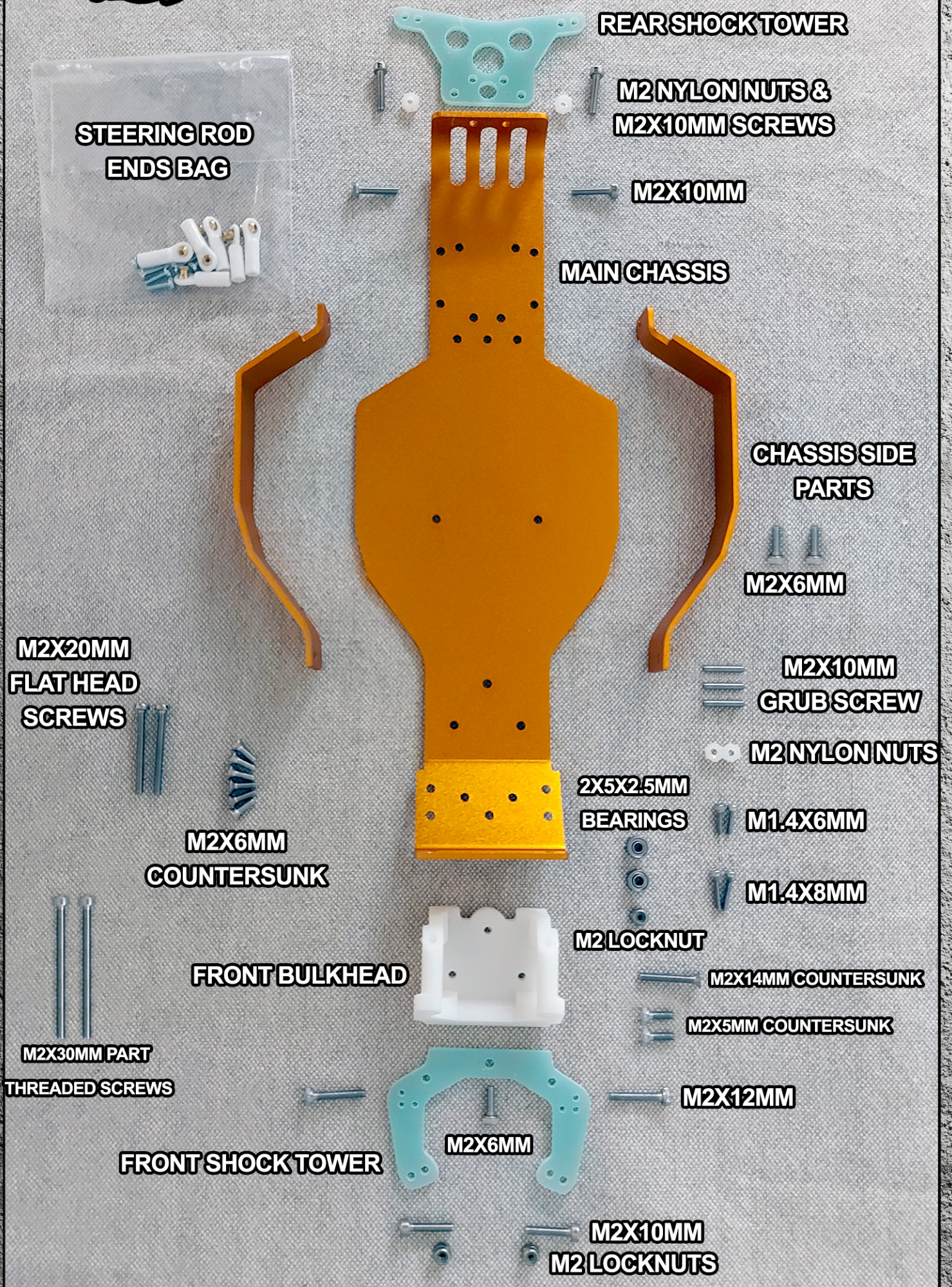
PREPARE FRONT SUSPENSION ASSEMBLY

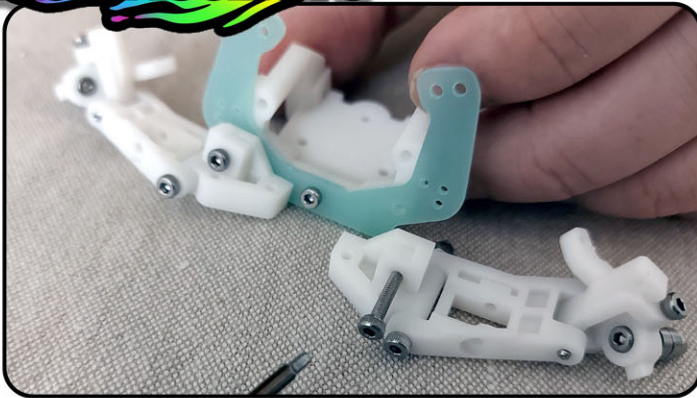


ASSEMBLE FRONT SUSPENSION USING SCREW GUIDE (LEFT), ADD BEARINGS & M2 LOCKNUT TO M2X12MM SCREW - WHEEL AXLE

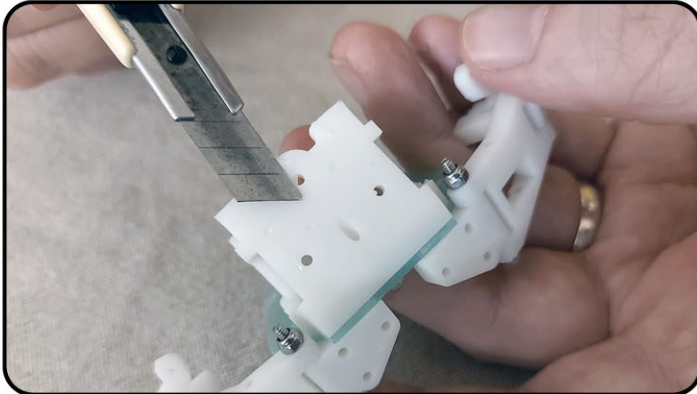


FULLY TIGHTEN REAR CHASSIS-MOTOR PLATE SCREWS & NYLON NUTS. BE CAREFUL NOT TO OVERTIGHTEN NYLON NUTS

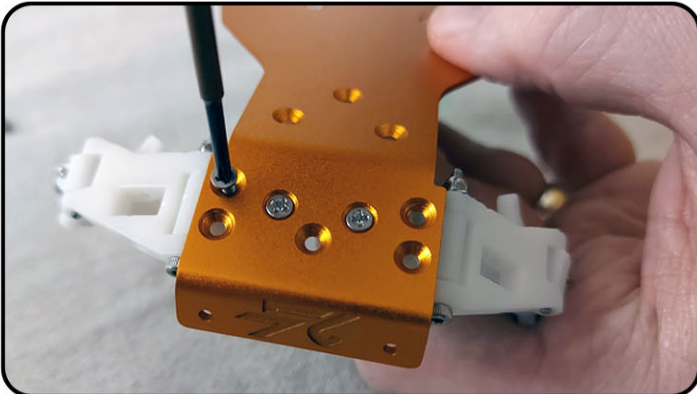




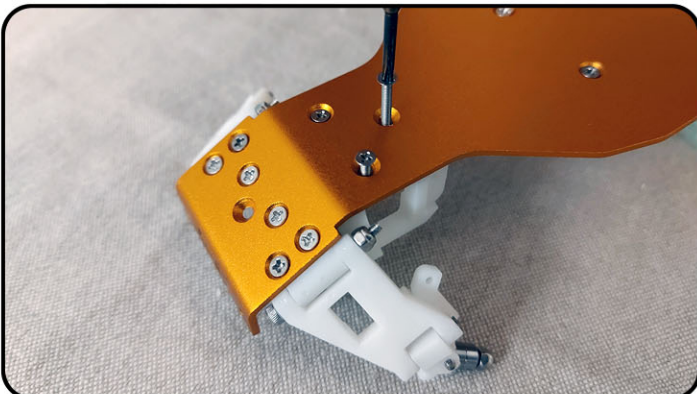
ASSEMBLE FRONT ARMS, SHOCK TOWER AND BULKHEAD TOGETHER USING M2X12MM SCREWS. USE M2X6MM SCREW IN CENTRE OF SHOCK TOWER



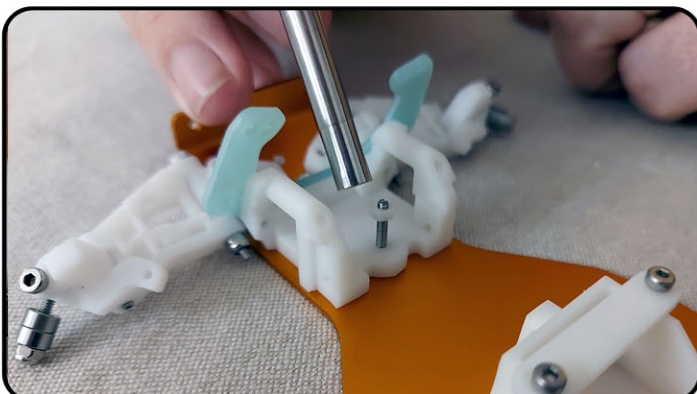
CUT OFF ANY SPRUES/BUMPS FROM BOTTOM OF BULKHEAD



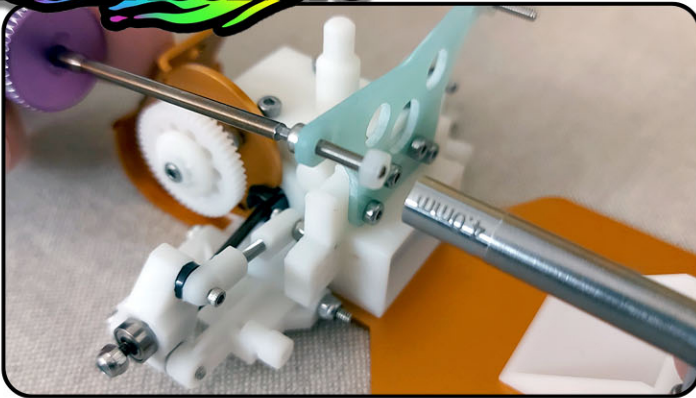
ATTACH ASSEMBLED FRONT END TO MAIN CHASSIS PLATE. USE M2X6MM COUNTERSUNK SCREWS



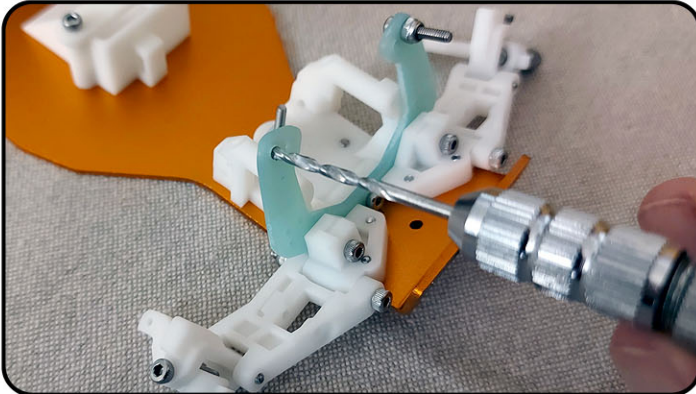
SECURE BULKHEAD TO CHASSIS USING M2X5MM COUNTERSUNK SCREWS AT SIDES AND M2X14MM COUNTERSUNK SCREW IN THE CENTRE



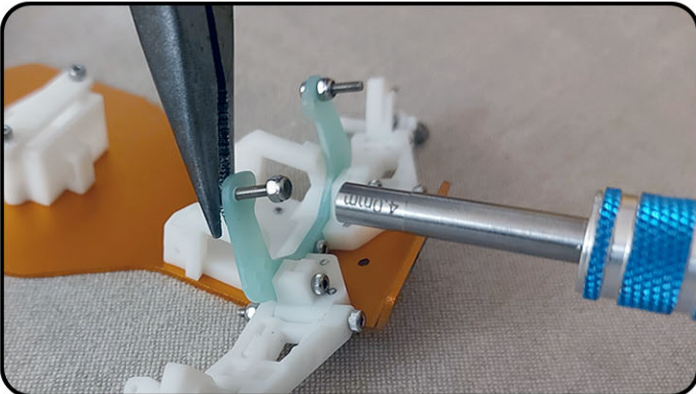
ATTACH M2 NYLON NUT TO M2X14MM COUNTERSUNK SCREW AND TIGHTEN DOWN TO THE BULKHEAD



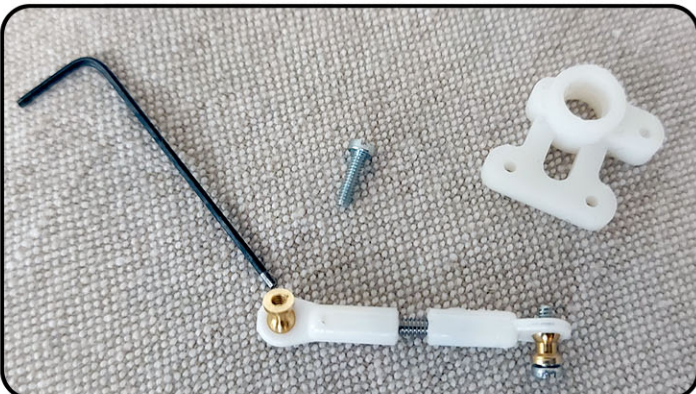
ATTACH M2X10MM & M2 NYLON NUT TO REAR SHOCK TOWER



USE PIN DRILL & M2 DRILL BIT TO ENLARGE TOP HOLES ON FRONT SHOCK TOWER



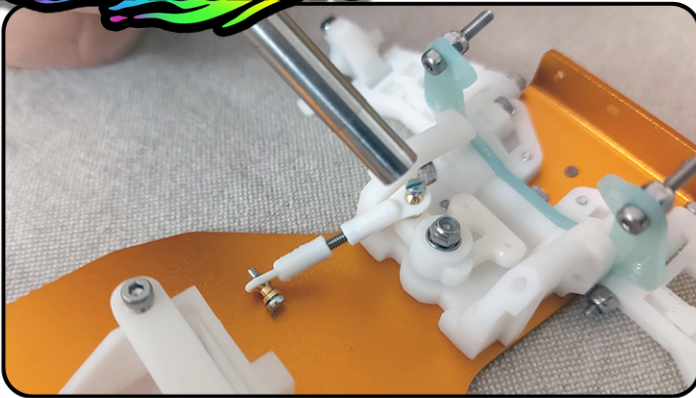
ATTACH M2X10MM SCREWS AND M2 LOCKNUTS TO UPPER SHOCK TOWER HOLES



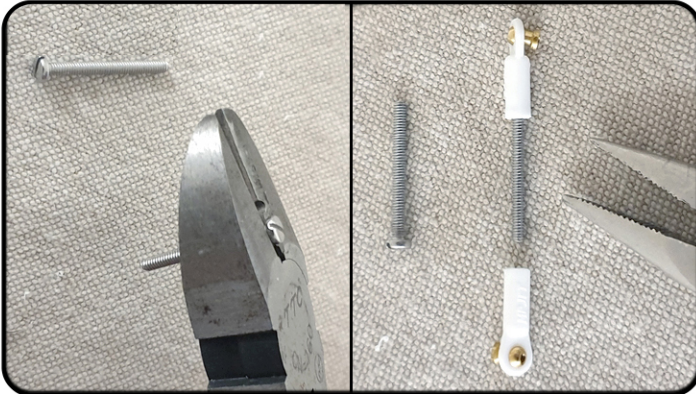
ASSEMBLE STEERING ROD ENDS TO M2X10MM GRUB SCREW. LEAVE APPROX 3MM GAP BETWEEN ROD ENDS



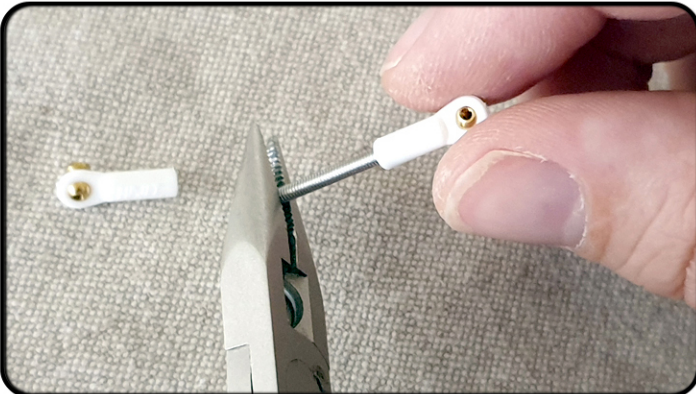
INSERT 2X5X2.5MM BEARINGS INTO STEERING BELLCRANK AND ONTO M2X14MM COUNTERSUNK SCREW. ATTACH TURNBUCKLE TO BELLCRANK USING FLAT HEAD SCREW (INCLUDED IN ROD ENDS BAG)



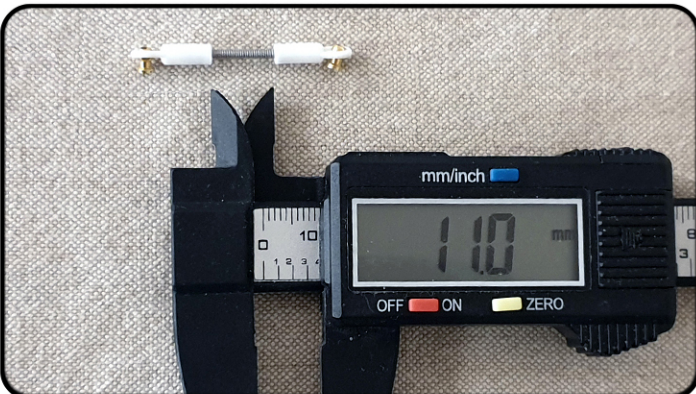
**PUSH BELL CRANK DOWN OVER
M2X14MM COUNTERSUNK SCREW,
ATTACH M2 LOCKNUT TO SECURE**



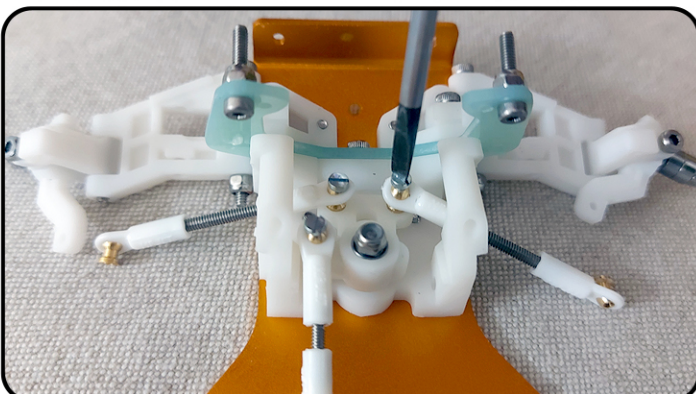
**REMOVE HEAD FROM M2X20MM FLAT
HEAD SCREW AS CLOSE TO THE TOP
AS POSSIBLE. REPEAT ASSEMBLY OF
ROD CONNECTORS (X2)**



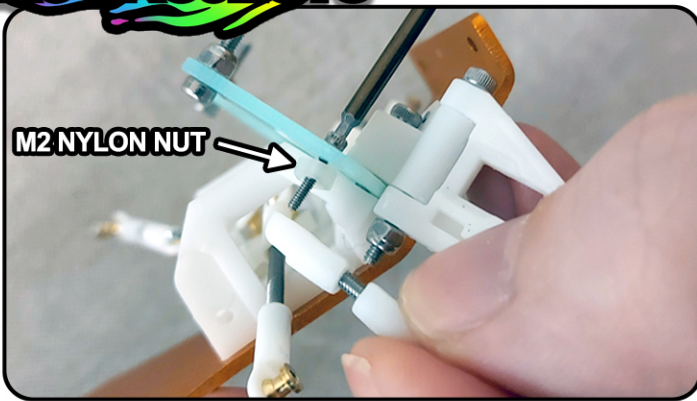
**ATTACH BOTH ROD ENDS TO
LEFT & RIGHT STEERING
CONNECTORS**



**LEAVE APPROX. 11MM BETWEEN
ROD ENDS**



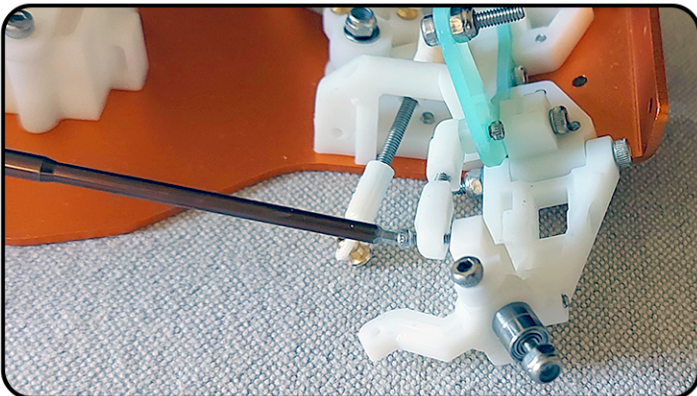
**ATTACH TURNBUCKLES TO
BELL CRANK USING FLAT HEAD
SCREWS (INCLUDED IN ROD
ENDS BAG)**



**ATTACH UPPER TURNBUCKLES
(ASSEMBLED DURING PARTS BAG 2)
USE M1.4X8MM SCREW AND M2
NYLON NUT (AS A SPACER) & SCREW
INTO INNER ROD END.**



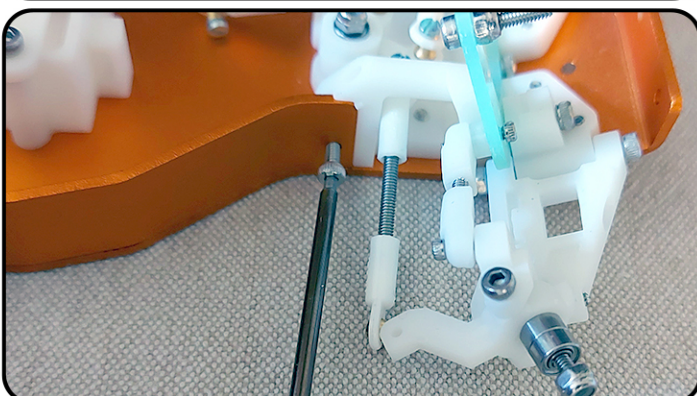
**USE PIN DRILL & M1.5 DRILL BIT TO
ENLARGE HOLE OF OUTER ROD END**



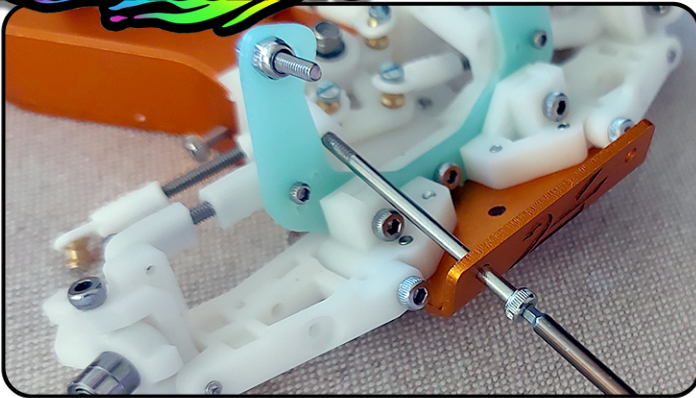
**ATTACH OUTER ROD END TO FRONT
C-HUBS WITH M1.4X6MM SCREWS**



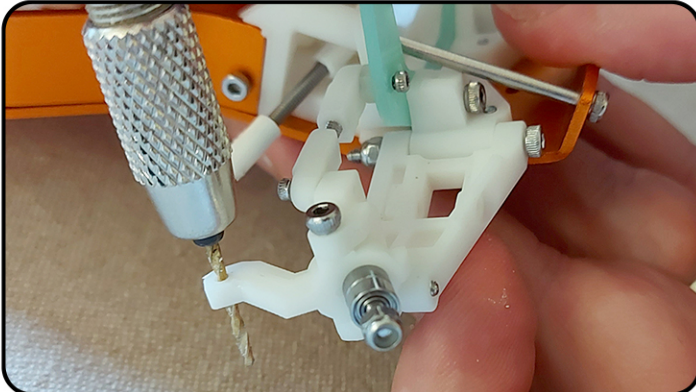
**ATTACH CHASSIS SIDE PARTS TO
REAR BULKHEAD WITH M2X10MM
SCREWS**



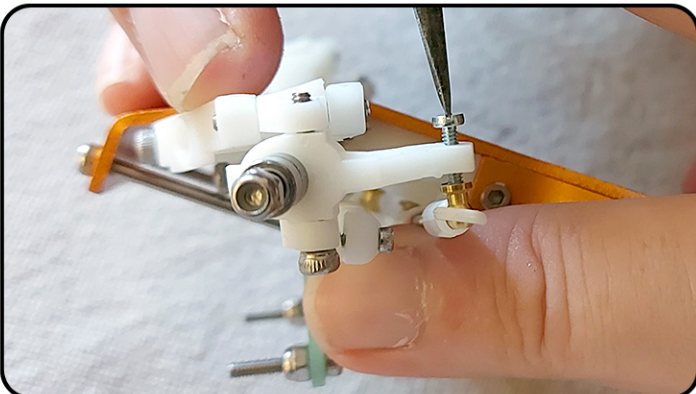
**USE M2X6MM SCREWS TO ATTACH
ATTACH CHASSIS SIDE PARTS TO
FRONT BULKHEAD**



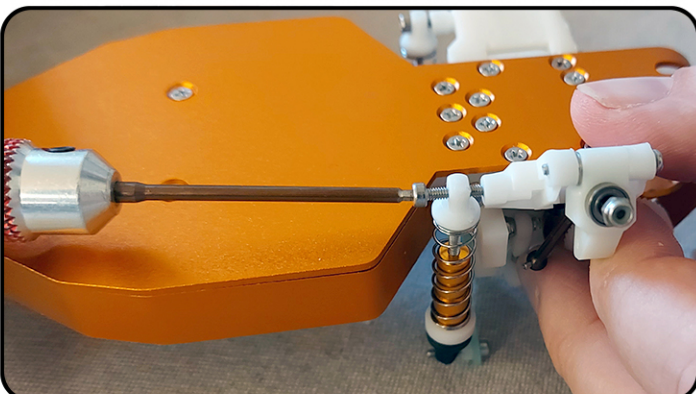
**INSERT AND SCREW IN M2X30MM
PARTIALLY THREADED SCREW**



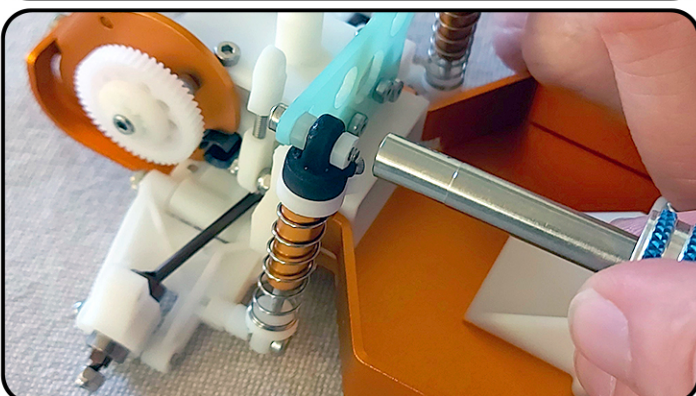
**USE PIN DRILL & M1.5 DRILL BIT TO
ENLARGE HOLE OF SPINDLE OUTER
HOLE**



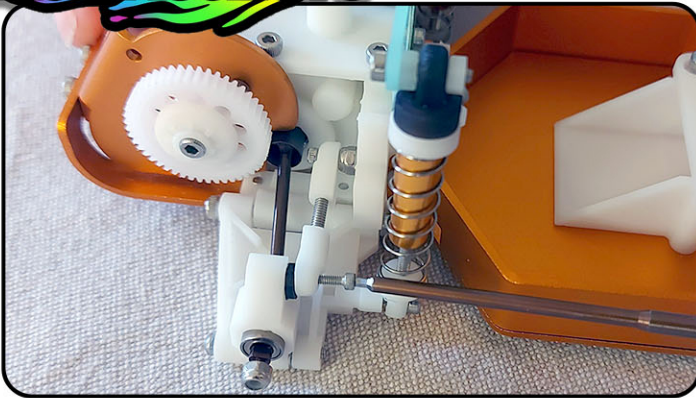
**ATTACH OUTER ROD END TO SPINDLE
OUTER HOLE WITH FLAT HEAD
SCREWS (INCLUDED IN ROD END
BAG)**



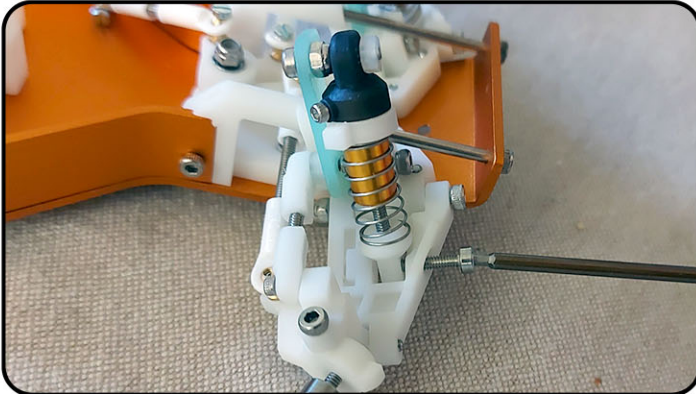
**ATTACH LOWER REAR SHOCKS TO
REAR ARM WITH M1X10MM SCREWS.
*SEE PARTS BAG 5 STAGE FOR
BUILDING SHOCKS**



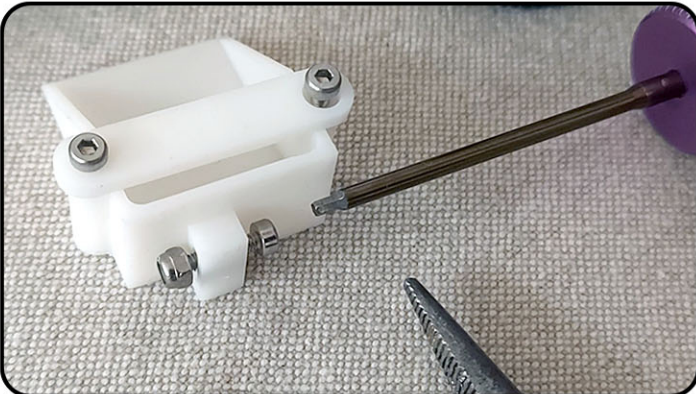
**FIX UPPER REAR SHOCK TO SHOCK
TOWER WITH M2 NYLON NUTS**



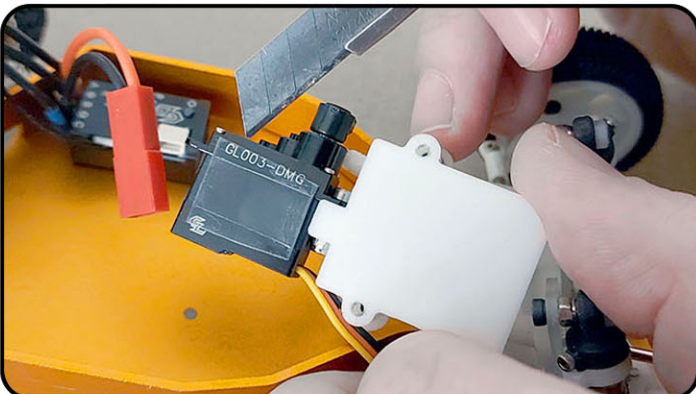
ATTACH REAR LINKS TO REAR HUBS USING M1.4X10MM SCREWS (FROM PARTS BAG 3). USE BLACK M2 BLACK PLASTIC WASHERS AS A SPACER



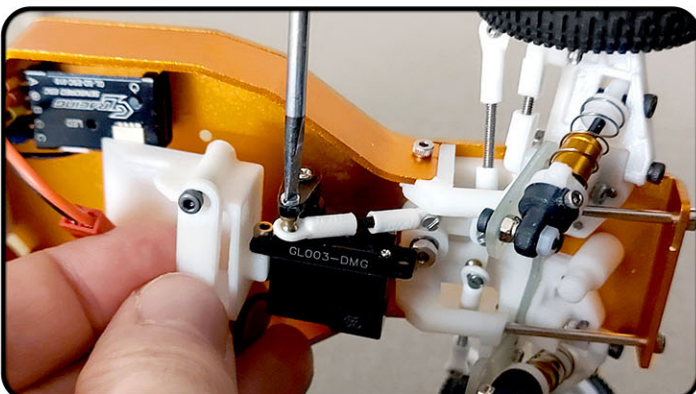
ATTACH FRONT SHOCKS (SEE PARTS BAG 5) TO ARMS USING M2X10MM SCREWS. FIX UPPER SHOCK TO FRONT SHOCK TOWER WITH M2 NYLON NUT



TO ATTACH SERVO, REMOVE BATTERY CUP AND USE M2X10MM SCREW & M2 LOCKNUT TO CONNECT REAR MOUNTING LUG OF SERVO



FIX SERVO TO BATTERY CUP, USE DOUBLE SIDED/SERVO TAPE WHEN ATTACHING TO CHASSIS



RE-ATTACH STEERING ROD & SERVO HORN. USE ORIGINAL M2x6MM COUNTERSUNK SCREWS TO ATTACH BATTERY CUP-SERVO ASSEMBLY TO CHASSIS.

FRONT WHEEL SET



REAR WHEEL SET



M2.5X10MM SPACERS

- M2X 10MM
- M2X 10MM
- M2X 10MM
- M2X 10MM



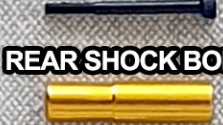
REAR SPRING

FRONT SPRINGS

REAR SPRING

BODY CLIPS

M2X22



REAR SHOCK BODY

FRONT SHOCK BODIES

REAR SHOCK BODY

M2X22

M2 NYLON NUTS

SHOCK TOOL



SHOCK CAPS



M1.4X6MM



M2X 10MM

M2 LOCKNUT

M2X 16MM

BODY-WING BRACKET



GEAR COVER



M2X 12MM



M2X 6MM



M2X 3MM

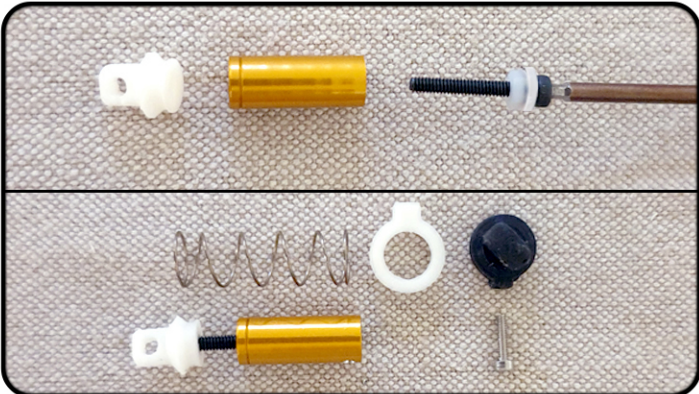




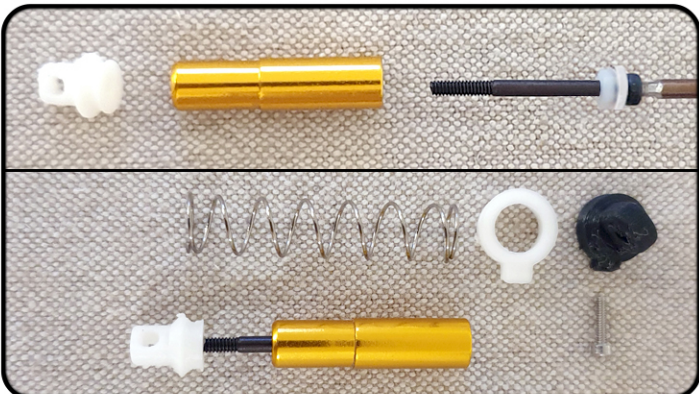
INSERT SHOCK BODY INTO SHOCK TOOL AND USE 1.5MM DRILL BIT & PIN DRILL TO MARK DRILLING POINT



**USE 1.5MM DRILL BIT & PIN DRILL TO MAKE A HOLE IN SHOCK BODY (ON ONE SIDE OF SHOCK BODY)
HOLE MUST BE 1.5MM FROM END OF SHOCK BODY



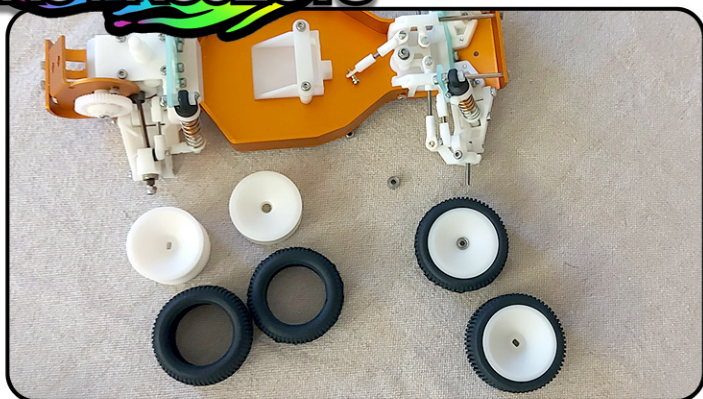
**FRONT SHOCKS-
ATTACH WHITE M2 PLASTIC WASHER & M2 NYLON NUT ONTO M2X14MM SCREW, PUSH THROUGH SHOCK BODY & SCREW INTO SHOCK BOTTOM
M2X14MM SCREWS COULD BE PARTIALLY THREADED



**REAR SHOCKS-
ATTACH WHITE M2 PLASTIC WASHER & M2 NYLON NUT ONTO M2X22MM SCREW, PUSH THROUGH SHOCK BODY & SCREW INTO SHOCK BOTTOM
M2X22MM SCREWS COULD BE PARTIALLY THREADED



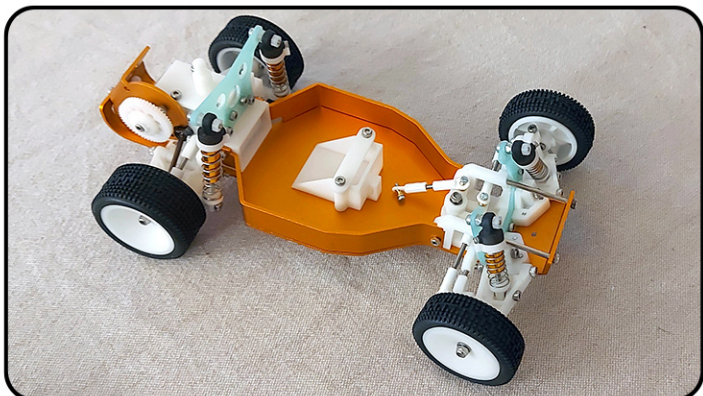
COMPLETE SHOCK ASSEMBLIES USING M1.4MMX6 SCREW. SCREW THROUGH SHOCK GAP HOLE & DRILLED HOLE IN SHOCK BODY



**ASSEMBLE WHEELS AND TYRES,
USING BEARINGS ON FRONT WHEELS.
FIX ON TO AXLES WITH M2 LOCKNUTS**



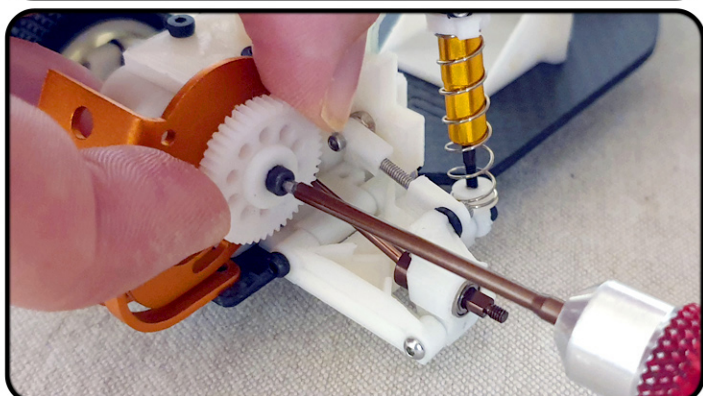
****PLEASE NOTE!
IF REAR WHEELS ARE RUBBING ON
OUTER ROD ENDS, - REMOVE M2
BLACK WASHER AND RE-ASSEMBLE**



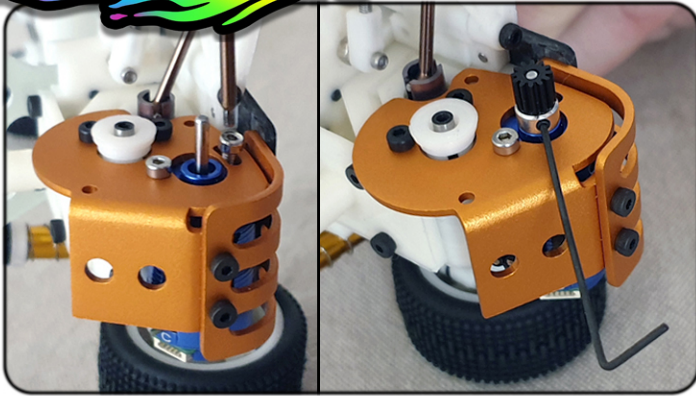
**CONGRATULATIONS!
THE MAIN ROLLING CHASSIS IS
COMPLETE!
THE NEXT FEW STEPS SHOW MOTOR
AND BODY FITTING. THE CAR SHOWN
IS THE CARBON CHASSIS CAR, BUT
THE STEPS ARE THE SAME**



**NEXT - FITTING MOTOR AND SETTING
GEAR MESH. USE ONLY 64DP PINIONS
RECOMMENDATION IS 12T OR 13T**



**HOLD SPUR GEAR FIRMLY AGAINST
INNER SPUR ADAPTOR AND REMOVE
M2X6MM SCREW**

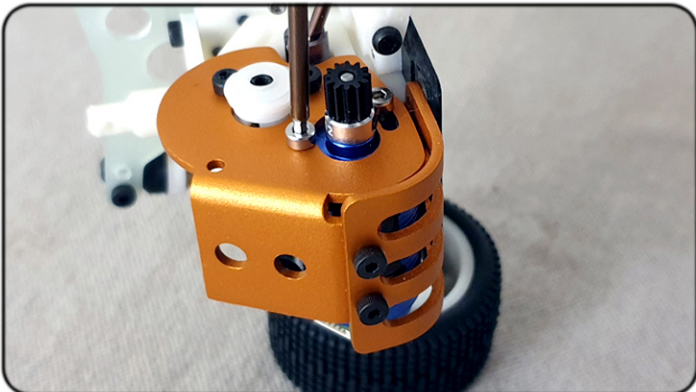


LOOSLY FIX MOTOR TO MOTOR PLATE WITH M2X3MM SCREWS. THEN ATTACH PINION TO MOTOR SHAFT. LEAVE A MINIMAL GAP BETWEEN MOTOR AND PINION

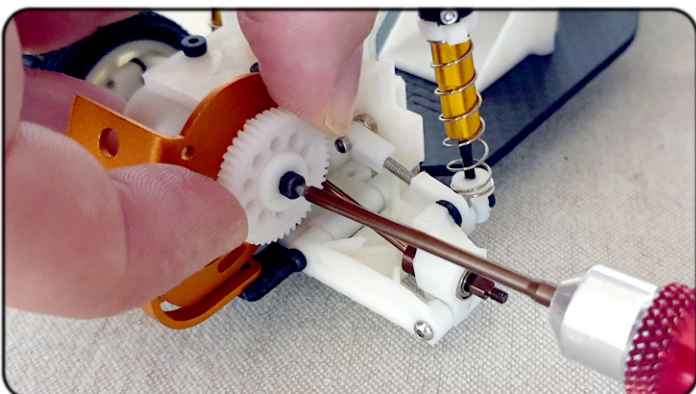
****SPUR GEAR WILL BE REMOVED/ REATTACHED TOGETHER WITH INNER SPUR GEAR ADAPTOR**



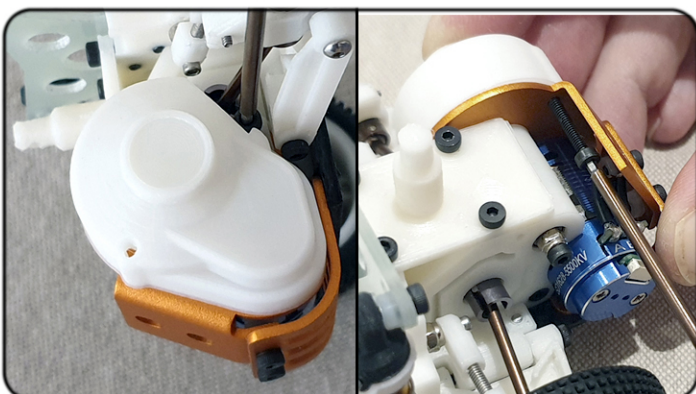
LOOSLY RE-FIT SPUR GEAR AND SET GEAR MESH WITH A SMALL AMOUNT OF MOVEMENT BETWEEN SPUR & PINION. THEN TIGHTEN BOTTOM SCREW



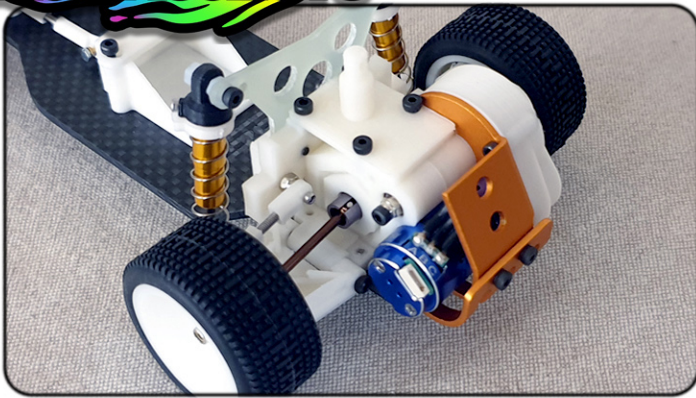
REMOVE SPUR GEAR AGAIN AND TIGHTEN UPPER SCREW.



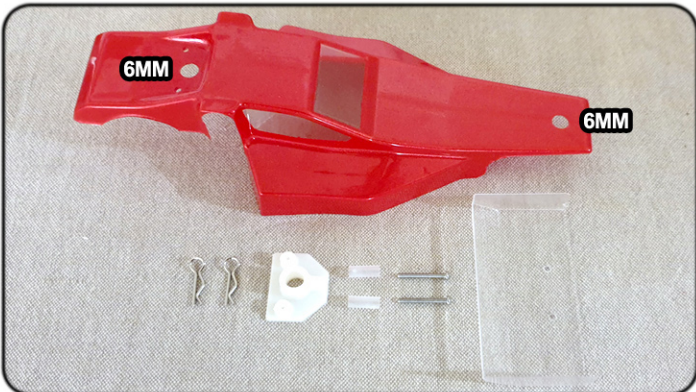
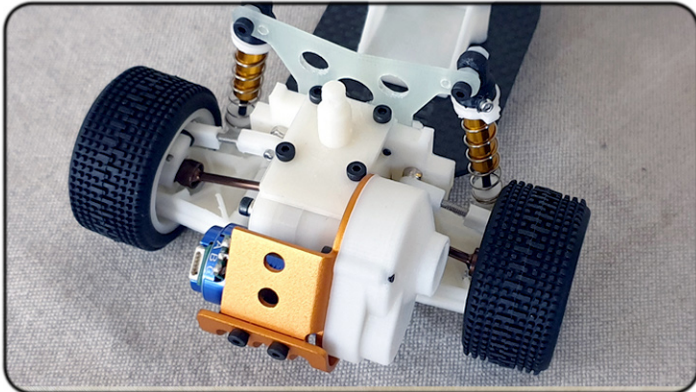
RE-ATTACH SPUR GEAR (& M3 WHITE WASHER) AND FULLY TIGHTEN M2X6MM SCREW WHILST FIRMLY HOLDING THE SPUR GEAR AGAINST INNER SPUR ADAPTOR



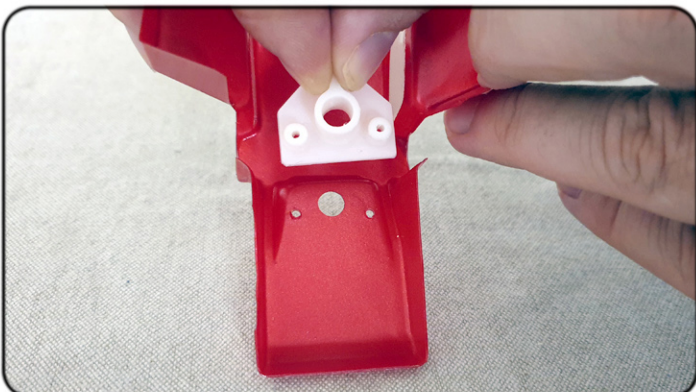
ATTACH GEAR COVER WITH M2X6MM SCREW (LEFT PHOTO) AND M2X12MM SCREW (RIGHT PHOTO)



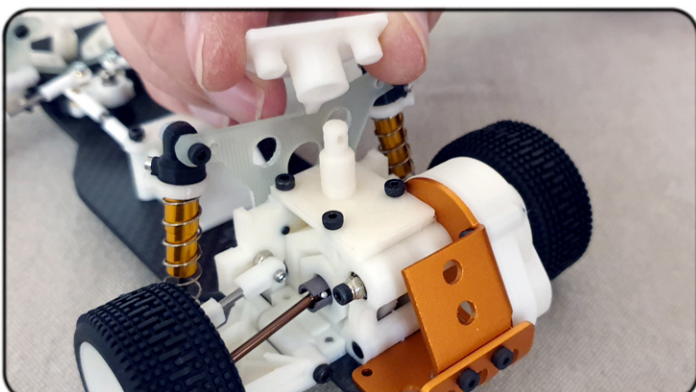
**FINISHED MOTOR MOUNTING,
SETTING GEAR MESH & FITTING
GEAR COVER.
NEXT - BODY SHELL FITTING!**



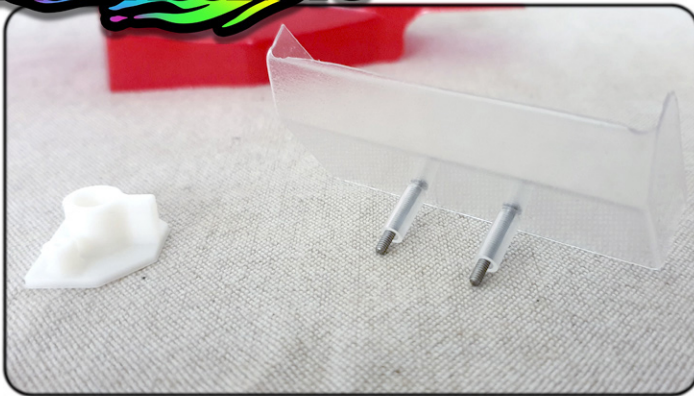
**USING WINDOW MASKS, PAINT BODY,
TRIM BODY AND WING. SEE NEXT
STEP FOR MOUNTING HOLES**



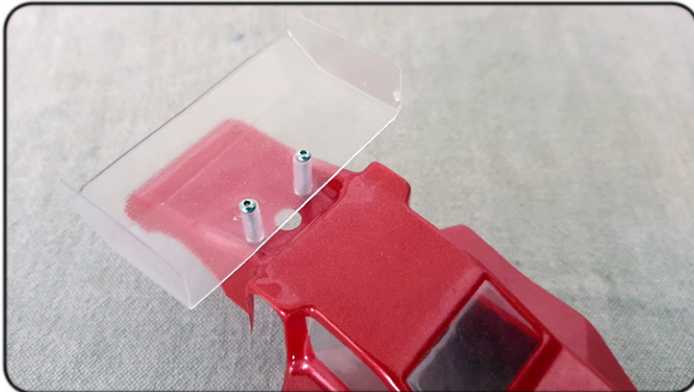
**USE BODY-WING MOUNT AND
DIMPLES IN BODY SHELL AS A GUIDE
WHEN MAKING 6MM & 2MM HOLES**



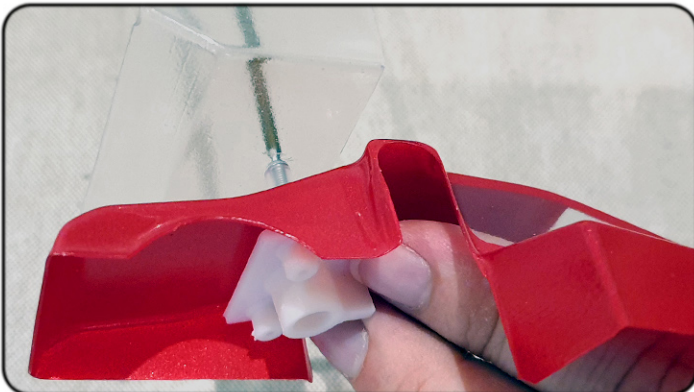
**TEST FIT BODY-WING MOUNT ONTO
REAR BODY POST. IF IT'S TOO TIGHT,
USE BODY SHELL REAMER TO MAKE
HOLE LARGER**



SCREW M2X16MM SCREWS THROUGH WING & M2.5X10MM PLASTIC SPACERS



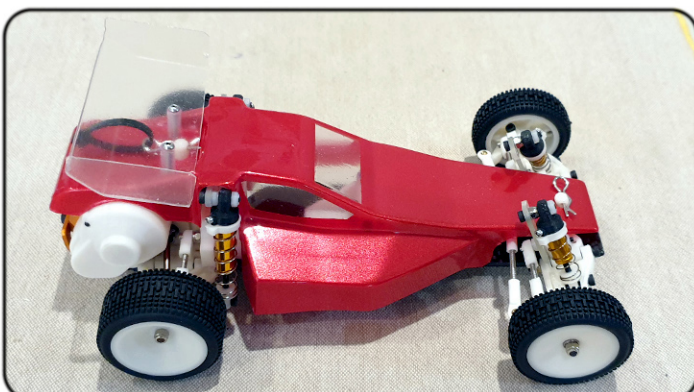
PUSH WING ASSEMBLY THROUGH 2MM HOLES IN BODY SHELL



ATTACH WING ASSEMBLY TO BODY & BODY-WING MOUNT. YOU MAY NEED TO MAKE 2MM HOLES LARGER FOR ALIGNMENT



SCREW WING-BODY ASSEMBLY FULLY TOGETHER



***2 SIZES OF FRONT BODY POST ARE INCLUDED. HOWEVER USING VELCRO (HOOK AND LOOP FASTENER) ON THE SIDES OF CHASSIS IS RECOMMENDED**

24

**CONGRATULATIONS ON YOUR BUILD
AND THANK YOU FOR YOUR PURCHASE !
WE HOPE YOU ENJOYED THE BUILD.**

**PLEASE SEE OUR WEBSITE AND FACEBOOK
PAGE FOR ELECTRONICS GUIDE
WWW.NRCPROJECTS.COM**