

# RS-LM Parts List

## 1. GEAR DIFFERENTIAL/SOLID FRONT AXLE

The car can use either 2 differentials, front and rear or Solid Axle in the front.

Other differentials may work with the car. I used 3Racing differentials from the Sakura XI Touring car kit.

### **PARTS NEEDED**

#### **Differential**

**Differential: 3Racing (SAK-XS110) (2 if not using solid front axle)**

#### **for solid front axle**

**Solid Axle: 3Racing (SAK-D134)**

**38T Pulley: 3Racing (SAK-D135)**

#### **Bearing Holder**

(4 total) 3Racing Bearing Housing for Sakura D4 XI Ultimate CS Sport Advance 2016 (SAK-X07)

**Differential manual comes with the differential that you buy. I will include a link to the Sakura XI touring car kit if you do not have the manual for how to assemble your differential.**

**[http://www.tqrcracing.com/forum/files/manual/xisport\\_manual.pdf](http://www.tqrcracing.com/forum/files/manual/xisport_manual.pdf)**

## 2. ASSEMBLE CHASSIS DECK

### **Printed Parts:**

Front deck  
Center deck (part 2)

Center deck (part 1)  
Rear deck  
Chassis deck motor brace

## Metal Parts:

M3 x 5 flat screws  
M3 x 1.0 x .5 flat nuts  
(4) M3 x 8 flat screws

## 3. SUSPENSION ARMS

### Printed Parts:

#### Front

suspension front mount (+10mm)  
suspension rear mount (left)  
suspension rear mount (right)  
front suspension arm (left)  
front suspension arm (right)  
C-hub (left)  
C-hub (right)  
Front Knuckle (2)

#### Rear

suspension rear mount  
suspension rear mount (+8.4)(right)  
suspension rear mount (+8.4)(left)  
rear suspension arm (left)  
rear suspension arm (right)  
Rear Knuckle (left)  
Rear Knuckle (right)

**\*\*\* Print Rear Knuckles at 100% infill (the Upper Control Arm mount needs to be solid) \*\*\***

### Metal parts:

outer pin m3 x 22.9 pin      3Racing SAK-28  
inner pin m3 x 46 pin (4)    3Racing SAK-27  
m3 x 6 x 1.0 spacer (4)    3RAC-WF305/PK  
m3 x 6 x 2.0 spacer (4)    3RAC-WF320/PK  
m3 x 8 flat screw (8)  
m3 x10 set screw (10)  
(2) 3Racing FGX F1 4mm ball stud M3 x 5 4 pcs (FGX-123)

(2) Yokomo 39.1mm Front Double Joint Universal Driveshaft [YOKBD-010RW] \*any 39.1mm double joint shaft can work

(2) Kokomo 40.6mm Front Double Joint Universal Driveshaft [YOKB7-010FW] \*any 40.6mm double joint shaft can work

(4) M2 x 10 pin (M2 x 10 shaft B-02-VBC-0020)

King Pin Post for 3racing Sakura Zero (3Racing SAK-42)

Aluminum M3 Countersink Washers (3Racing 3RAC-WC3/PK)

### **Plastic parts:**

Hex adaptor SAK-D123

### **Bearings:**

(4) 5x8x2.5 bearings

(4) 10x5x4 bearings

### **Shocks:**

(2) Associated FT Front Aluminum Shock Kit Blue RC18R / FGX 2pcs  
with

(2) Rear Damper Spring Set for Sakura FGX 3Racing FGX-303  
Shock oil 30 weight (Team associated 5422)

other shocks can work as long as they have a 2mm shaft.

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## Upper Suspension Arms

### **Plastic / Metal Parts:**

m3 x 16 set screw

(4) ball sockets

(8) 4.8mm ball studs (3Racing 3RAC-BS48H5/PK)

\*rear upper arms can use 4.8mm ball studs or ball nuts... front could use 4-4.8mm ball studs.

## 4. DRIVETRAIN

### Printed Parts:

(4 total) Bulk heads (Left and Right)  
Base Plate (Front)  
Base Plate (Rear)  
Rear shock tower  
(2) Bearing Holder  
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### Plastic Parts:

Bearing Holder  
Assembled Differential(s) or One Way Axle

### Metal parts:

(8) M3 x 8 flat screw  
(4) m1.6 x 5 Socket Screw

Bearing:

(4) M10 x 15 x 4

### Belt:

Small belt :

3 Racing Low Friction Rear Belt 177 (Bando Belt) [SAK-X09]

Long belt:

3mm pitch (GT2), 210 teeth, 6mm wide Single Sided Neoprene Belt with Fiberglass Cords.

(A 6R53M21060 from [sdp-si.com](http://sdp-si.com))

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## Steering System

### Printed Parts:

Steering Arm (right)  
Steering Arm (Left)  
Steering link holder  
Steering link

### Plastic / Metal Parts:

(m8 x 10.5) Steering Post for Sakura XI Sport [3Racing (SAK-XS111)  
m3 x 0.2 shim spacer  
m5 x 0.2 shim spacer  
m3 x 6 x 1.0 spacer (3Racing-WF310/PK)  
(3) 4.8mm ball stud  
m3 x 8 Flat Screw  
m3 x 6 button screw

***The steering system can be purchased if you want a metal or plastic alternative.***

7075 Aluminum Steering System for 3Racing Sakura Ultimate/ XI Sport (SAK-U113/PK)

or

Aluminum Steering System for 3Racing Sakura Ultimate/ XI Sport (SAK-U113/P\_V2)

or

Plastic Motor Mount and Steering System for Sakura XI Sport (SAK-XS101)

### Bearings:

(4) m5 x 8 x 2.5  
(2) m3 x 6 x 2.5

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## Center Gear Adaptor

### **Plastic or Metal Parts:**

Spur Gear 48 Pitch - 85T

(2) M5 x 8 x 2.5

19T / Plastic Gear Adaptor (3Racing SAK-XS103)

or

7075 Aluminum Gear Adaptor With 19T Aluminum Pulley and Shaft (3Racing SAK-XS304)

(4) M2 x 5 Flat Screw

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## Motor Mount

### **Printed Parts:**

Motor Mount

Motor Mount Arm

Gear Mount (Right)

Gear Mount (Left)

(2) Spur Gear Holder

### **Plastic / Metal Parts:**

(2) M3 x 6 Button Screw

M5 x 25 Post

(2) M5 x 0.2 Shim Spacer

(2) M1.6 x 5 Socket Screw

Alternative parts:

Plastic Motor Mount and Steering System for Sakura XI Sport (SAK-XS101)

Aluminum Motor Plate For Sakura XI Sport (SAK-XS109 / PK)

or

7075 Aluminum Motor Mount (SAK-XS303 / PK)

## Battery Holder Plastic Replacement (for Spur Gear Holders) [SAK-U106]

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### Upper Deck

#### **Printed Parts:**

Upper Deck (front)  
Upper Deck (rear)

#### **Metal Parts:**

(10) M3 x 8 Flat Screw  
(2) M3 flat nuts  
3Racing FGX F1 4mm ball stud M3 x 5 4 pcs (FGX-123)

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### Belt Tensioner

Parts:

Belt Tensioner 3Racing SAK-58/BL

there are many different Belt Tensioners that can work.

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### Servo and Servo Mount

#### **Printed Parts:**

Servo Mount  
Servo Mount Top

## Plastic / Metal Parts:

Hitec HS-77BB Low Profile Servo

Servo Arm (you can use a long servo 1.5-2" arm I used a servo arm and then made an extension with a piece of carbon)

(2) M3 x 16 flat screws

(10) M3 x 8 flat screw

(2) 2.0mm Aluminum M3 Flat Washer

[3RAC-WF320/PK]

(4) 4.8mm ball stud (3RAC-SD48H5/pk)

(1) m3 x 12 bolt

(1) m3 x 3 aluminum washer [3RAC-WF330/PK]

(2) 4.8mm plastic ball cups

(1) m3 x 16 set screw

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Rims and Tires

## Printed Parts:

(4) Rims

## Plastic or Metal Parts:

This car uses Tamiya F104 Front Rubber Tires. There are many compounds from different makers. I used Tamiya 51399 Rubber Tires.

CA Tire glue (smells just like super glue... I believe it is just that—high priced super glue.)

(2)M2 x 10 shaft Pin (VBC Racing B-02-VBC-0020)

(4) Wheel adaptor ( 3Racing 3RAC-WX124/PK)

(4) 4mm Aluminum Locknut (Tuning Haus TUH1066)



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## Motor and Electronics

### Battery:

This chassis has a lot of room for a variety of batteries types. I use two 2000mah batteries that are run in parallel with an adaptor. It can run batteries up to 158mm long.

### Motor and ESC:

Any size can be used.

48 Pitch Pinion Gear 23T