























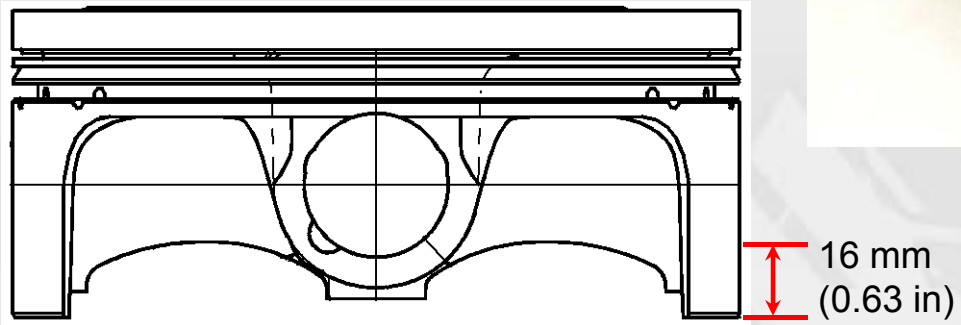






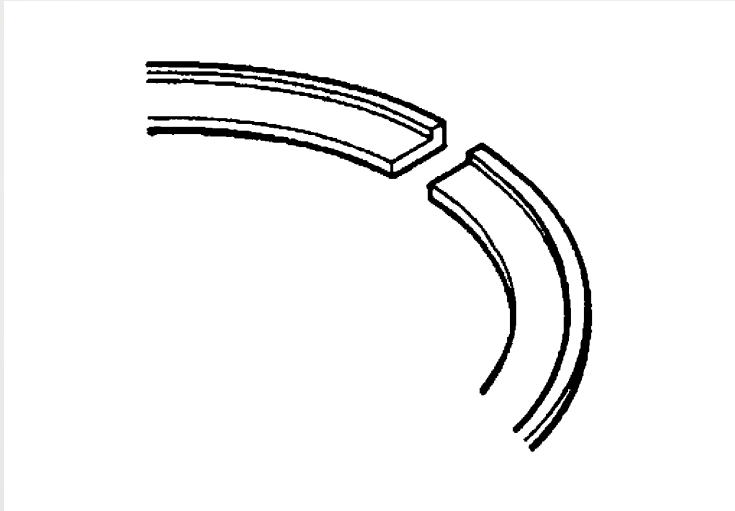
# Piston

- Forged aluminum piston  
( $\phi 96$  mm)

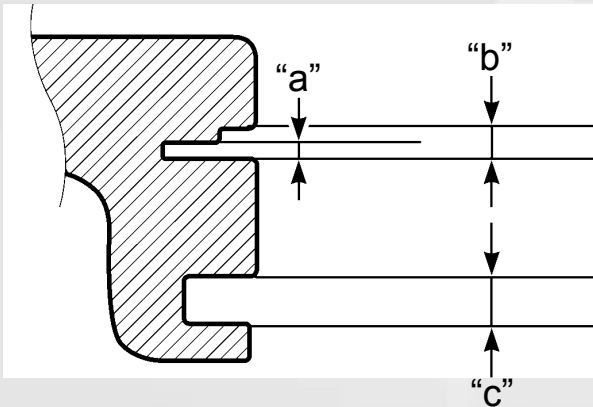


Piston OD measuring point: 16 mm (0.63 in)  
from the skirt end

# Piston Ring



1st ring: L-shape type  
Oil ring: Combination type



1st ring groove width "a": 0.78 — 0.80 mm

"b": 1.30 — 1.32 mm

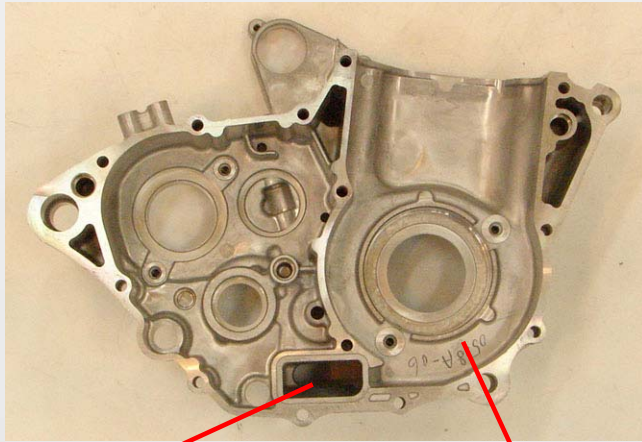
Oil ring groove width "c": 2.01 — 2.03 mm

# Crankcase

LH

RH

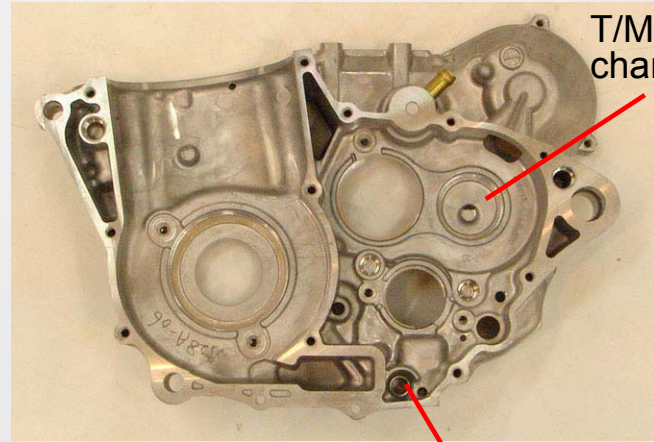
Inside



Oil reed valve

Crank chamber

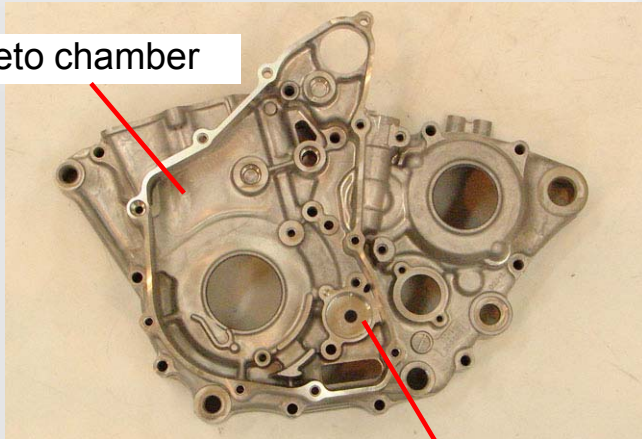
T/M chamber



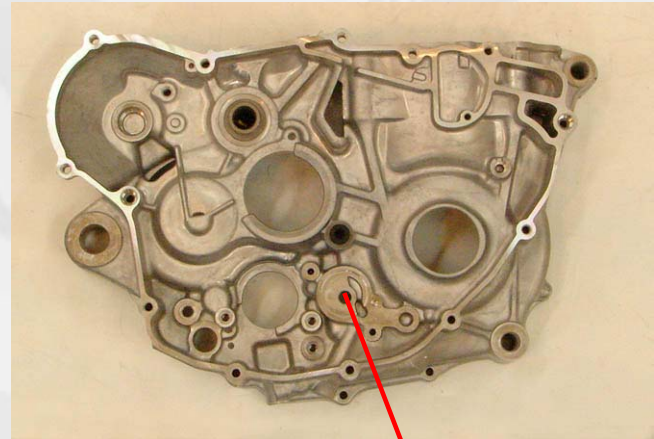
Oil strainer No. 1

Magneto chamber

Outside

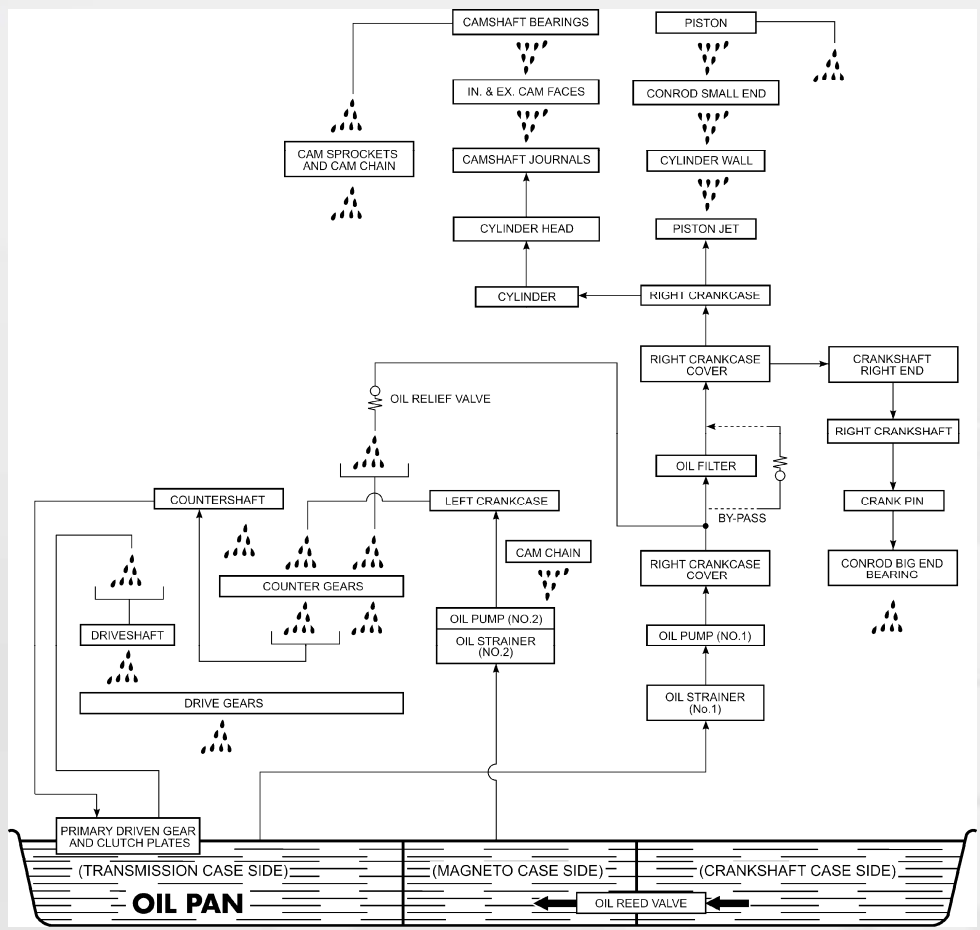


Oil pump No. 2, (Oil strainer No. 2)



Oil pump No. 1

# Lubrication System



Same as RM-Z450

# Transmission

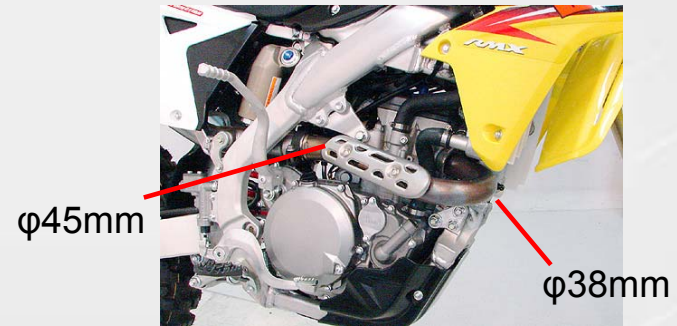
- Wider ratio gear box designed to wide variety of riding from technical trail to high speed

	<b>2010 RM-Z450</b>	<b>2010 RMX450Z</b>
Gear ratios 1st	1.800 (27/15)	2.153 (28/13)
2nd	1.471 (25/17)	1.611 (29/18)
3rd	1.235 (21/17)	1.250 (25/20)
4th	1.050 (21/20)	1.000 (19/19)
5th	0.909 (20/22)	0.826 (19/23)



# Exhaust System

- Titanium exhaust pipe  
 $\phi 38.1 \text{ mm}$  —  $\phi 45 \text{ mm}$
- Muffler with glasswool  
and spark arrester
- Glasswool density:  
130 — 150 kg/m<sup>3</sup>



Spark arrester

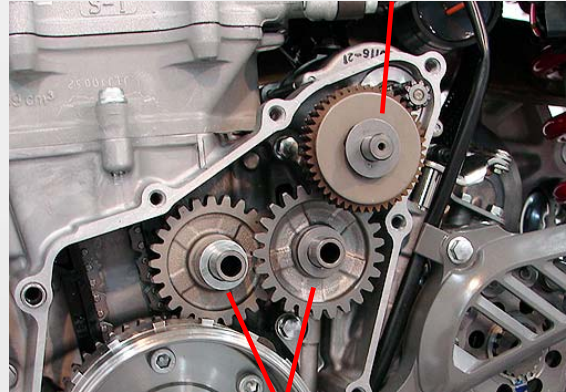


# Electric Starting System

Starter motor

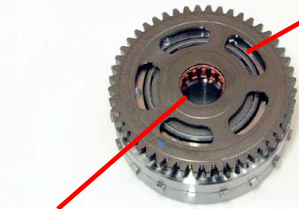


Starter torque limiter



Starter idle gear

Starter clutch

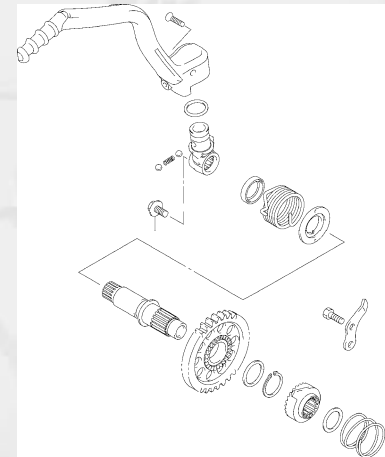


Starter drive gear



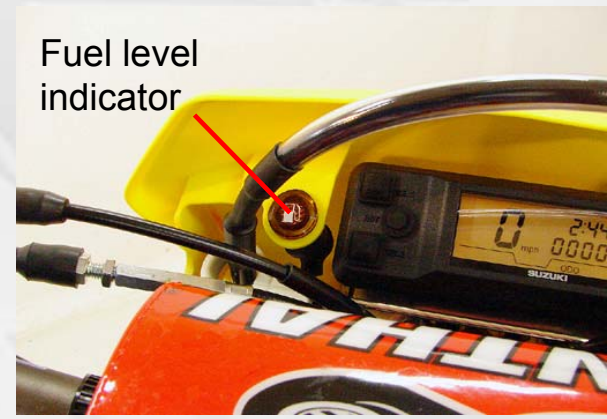
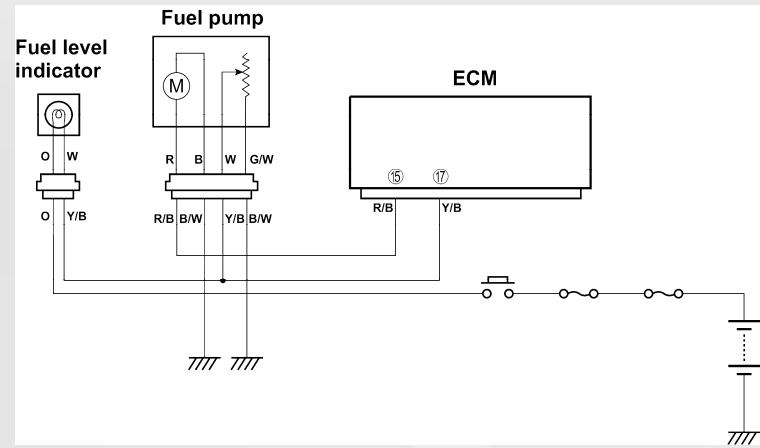
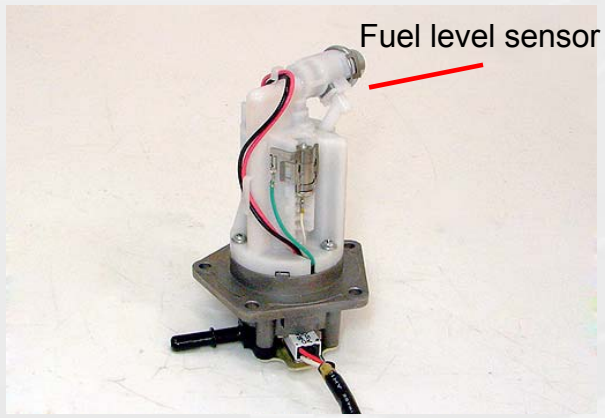
Starter button

- RMX also has same kick starter as RM-Z450



# Fuel System

- Fuel tank capacity: 1.6 G / 6.2 L
- Low fuel level indicator light indicates when tank is down to a ¼ full.
- Fuel pump discharge amount: 88 mL and more/10 sec.



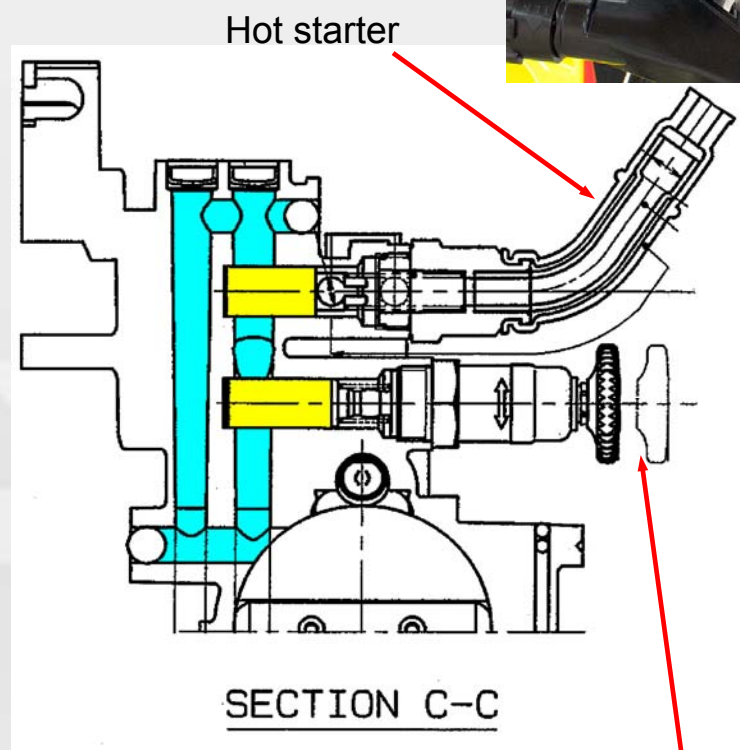
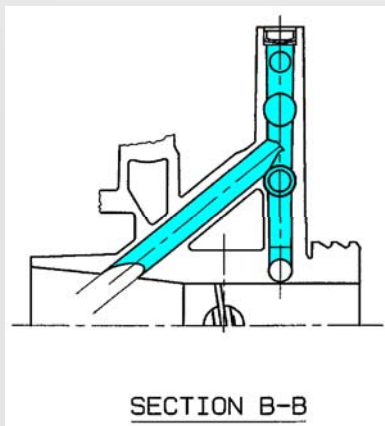
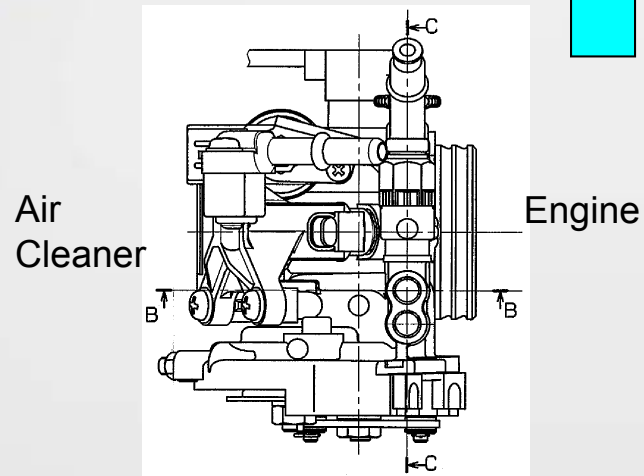
# Throttle Body

- Bore size: 41 mm



# Throttle Body

 Bypass air



Colder starter & Idle  
adjusting knob



# MX Based Chassis



# Chassis

- Frame and ergos designed to maintain slim narrow “MX” platform for maximum rider movement.
- RMX450Z frame is based upon the 2009 RM-Z450. This frame provides the right amount of flex better for off-road conditions.
- Front spring rates are set for a plusher suspension to handle off-road conditions.
- Rear spring rate and internal specifications provide plusher settings than the RM-Z450.

## Slim MX Ergos

- Slim MX ergos provide maximum movement vital for tackling unpredictable off-road terrain.



# Frame and Suspension

- Fully adjustable rear shock and similar rear linkage as the 2009 RM-Z450.
- Frame is based on the 2009 RM-Z450



## New Swingarm

- Combination cast front section and extruded aluminum rear provide combination of flex and rigidity.
- RMX swingarm is design for off-road and based on 2010 RM-Z450 swingarm.



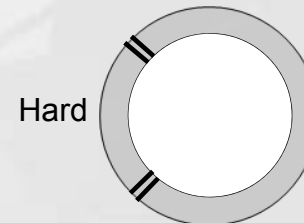
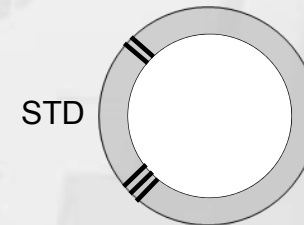
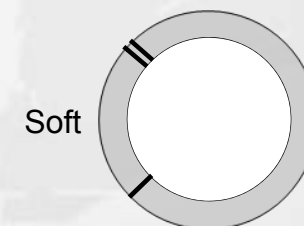
# Front Fork

		2010 RM-Z450Z	2010 RMX450Z
Front fork stroke		310 (12.2)	←
Front fork inner tube O.D.		47 (18.5)	←
Front fork spring free length		494 (19.45)	495 (19.48)
Front fork damping force adjuster	Rebound	MAX — 11 clicks turn back	MAX — 8 clicks turn back
	Compression	MAX — 11 clicks turn back	MAX — 8 clicks turn back
Front fork air pressure		0 kPa (0 kgf/cm <sup>2</sup> , 0 psi)	←
Front fork spring rate		4.8 N/mm (0.48 kgf/mm)	4.61 N/mm (0.47 kgf/mm)
Front fork oil type		SUZUKI FORK OIL SS-05 or equivalent	FORK OIL SS-19 or equivalent
Front fork oil capacity	Outer tube	369 ml	310 ml
	Damper rod	193 ml	←

Unit : mm (in)



## Spring ID slits



## Optional springs

ID slits are located on one side of the spring end face.

	SPRING P/No.	STD OIL QUANTITY	IDENTIFICATION
Soft	51171-28H10	327 ml (11.06 / 11.51 US/lmp oz)	3 slits
STD	51171-28H00	320 ml (10.82 / 11.26 US/lmp oz)	5 Slits
Hard	51171-28H20	303 ml (10.25 / 10.67 US/lmp oz)	4 Slits

# Rear Shock Absorber

		2010 RM-Z450Z	2010 RMX450Z
Rear shock absorber gas pressure		784 kPa (8.0 kgf/cm <sup>2</sup> , 113.8 psi)	←
Rear shock absorber spring set length		3.9 (0.15)	8.5 (0.39)
Rear shock absorber spring rate		58 N/mm (5.8 kgf/mm)	53.9 N/mm (5.5 kgf/mm)
Rear shock damping force adjuster	Rebound	MAX — 14 clicks turn back	MAX — 13 clicks turn back
	Compression (High speed)	MAX — 2 clicks turn back	MAX — 2 clicks turn back
	Compression (Low speed)	MAX — 12 clicks turn back	MAX — 10 clicks turn back
Rear wheel travel		31.0 (12.2)	←
Rear shock absorber oil type		REAR SUSPENSION OIL SS-25 or equivalent	←
Rear shock absorber oil capacity		383 ml	←

Unit : mm (in)



## Optional springs

	SPRING P/No.	SPRING RATE	MARKING PAINT	SET-LENGTH ADJUSTABLE RANGE
<b>Soft</b>	62211-37FJ0	50.0 N (5.1 kgf-m)	Silver	250 — 263 mm (9.84 — 10.35 in) [at spring free length 265 mm (10.43 in)]
<b>Soft</b>	62211-37FK0	52.0 N (5.3 kgf-m)	Orange	
<b>STD</b>	62211-37FL0	53.9 N (5.5 kgf-m)	Red	
<b>Hard</b>	62211-35G30	55.9 N (5.7 kgf-m)	Pink	
<b>Hard</b>	62211-35G40	57.9 N (5.9 kgf-m)	Blue	



**Ready for Off-road**



## Off-road Highlights

- Front headlight integrated into the number plate.
- Trick rear fender lighting tucked up inside to retain RM-Z styling.
- Full digital enduro instrumentation.
- Floating front disc brakes.
- Rear brakes are exact same as RM-Z450.
- Quick access airbox with no tools.
- Air intake is tucked up under the seat which is where you want it in wet conditions.
- Kickstand that tucks up high so it is out of the way in the ruddy stuff.
- Wide footpegs for grip in sloppy wet stuff.
- Renthal handlebars that can withstand the punishment.
- Battery is sealed and tucked away.
- Coolant recovery system prevents boiling over.
- Full cover engine protection.

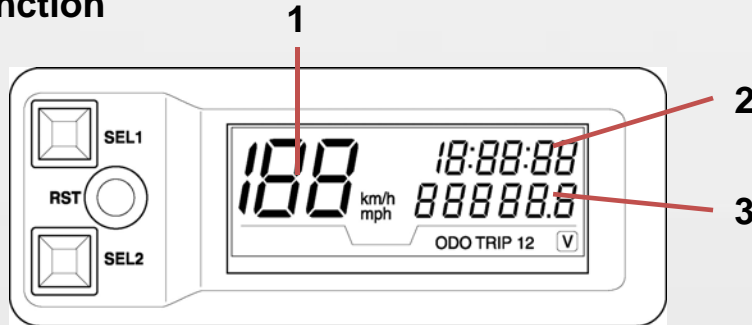
# Headlight and Taillight

- “GSX-R” inspired front headline design provides ample lighting for night rides.
- System runs through a 12 V 35 W Bulb.
- LED taillight is secured under fender and retains RM-Z styling direction.
- LED taillight retains compact look.



# Combination Meter

## Function



	STANDARD MODE	SPORT MODE
1	Speedometer	Average driving speed
2	Clock	Timer
3	Odometer ↓ Trip meter (1 and 2) ↓ Battery voltage meter	Trip meter

## Front Brake

- Master Cylinder:  $\phi 11$  mm
- Caliper:  $\phi 27$  mm x 2
- Disc:  $\phi 250$  mm x t3  
Floating type front disc



## Rear Brake System

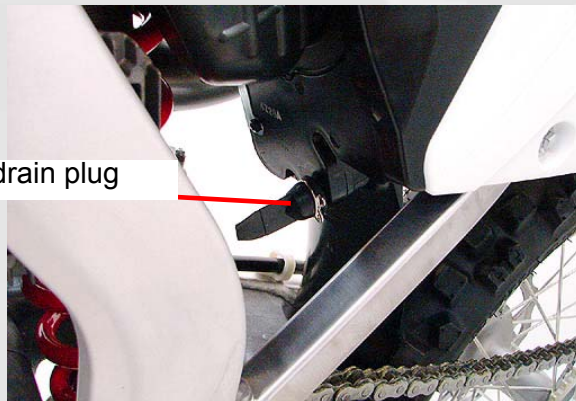
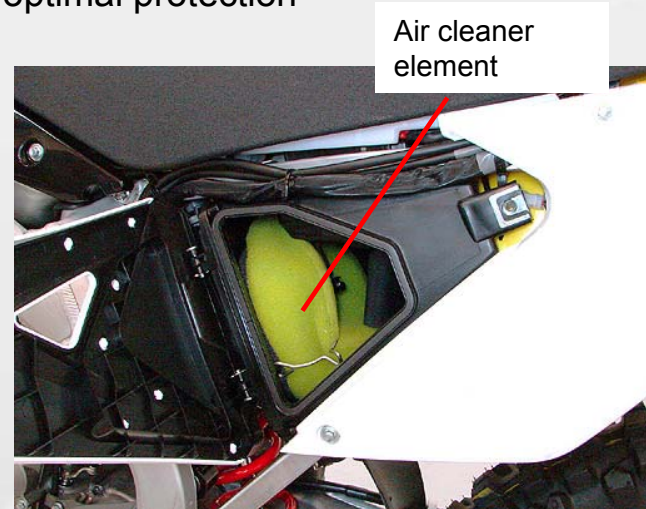
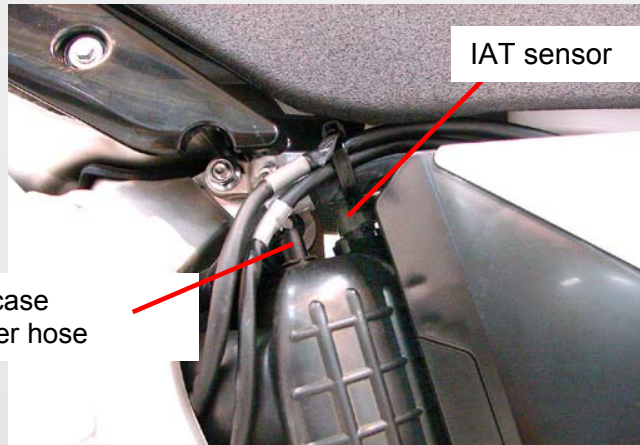
- Master Cylinder:  $\phi 11$  mm
- Caliper:  $\phi 25.4$  mm x 1
- Disc:  $\phi 240$  mm x t4  
same as RM-Z450



# Airbox

## Features

- Airbox is tool free and quick to open for maintenance.
- Air intake duct is positioned under the seat for optimal protection from the wet conditions.



## Additional Features

- Kick stand and wide footpegs



- Rental bars



- On the front is a Dunlop Sports D742FA 80/100-21
- On the rear is a Dunlop Sports D756 110/100-18



# Battery

- Compact 12 V sealed battery is tucked away neatly under the seat for protection and mass centralization.  
12 V 6h / 10 HR
- Battery is smaller than the DR-Z400 version.



# Cooling System

- Radiator same as RM-Z450.
- Reservoir tank equipped inside the engine protector.
- Water pump same as RM-Z450.





# Specifications



# Specifications

<b>DIMENSIONS</b>	<b>2010 RM-Z450</b>	<b>2010 RMX450Z</b>
Overall length	2190 mm (86.2 in)	2185 mm (86.0 in)
Overall width	830 mm (32.7 in)	840 mm (33.1 in)
Overall height	1270 mm (50.0 in)	1265 mm (49.8 in)
Wheelbase	1495 mm (58.9 in)	1485 mm (58.5 in)
Ground clearance	325 mm (12.8 in)	320 mm (12.6 in)
Seat height	955 mm (37.6 in)	950 mm (37.4 in)
Curb mass	112.5 kg (248 lbs)	123.5 kg (272 lbs)
Engine type	4-stroke, liquid-cooled, DOHC	←
Bore	96.0 mm	←
Stroke	62.1 mm	←
Displacement	449 cc	←

# Specifications

<b>ENGINE/TRANSMISSION</b>	<b>2010 RM-Z450</b>	<b>2010 RMX450Z</b>
Compression ratio	12.2 : 1	11.6 : 1
Fuel system	Fuel injection	←
Lubrication system	Suzuki Advanced Sump System	←
Clutch	Wet multi-plate type	←
Transmission	5-speed constant mesh	←
Primary reduction ratio	2.625 (63/24)	2.708 (65/24)
Gear ratios 1st	1.800 (27/15)	2.153 (28/13)
2nd	1.471 (25/17)	1.611 (29/18)
3rd	1.235 (21/17)	1.250 (25/20)
4th	1.050 (21/20)	1.000 (19/19)
5th	0.909 (20/22)	0.826 (19/23)
Final reduction ratio	3.846 (50/13)	3.923 (51/13)

# Specifications

	<b>2010 RM-Z450</b>	<b>2010 RMX450Z</b>
Front suspension	SHOWA 47 mm telescopic forks, pneumatic/coil spring, oil damped	←
Rear suspension	Swingarm, link type, SHOWA piggyback-reservoir shock	←
Caster	29° 40'	28° 10'
Trail	130 mm (5.12 in)	122 mm (4.80 in)
Front brake	Disc	Floating Disc
Rear brake	Disc	←
Front tire size	80/100-21	←
Rear tire size	110/90-19	110/100-18
Fuel tank capacity	6.2 L (1.6 US gal)	←



# Suzuki Contacts

## Suzuki Communications

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