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Cobra MOTO, LLC 240 Uran Road Hillsdale, MI 49242

DISCLAIMER OF WARRANTY

This motorcycle is sold "as is" with all faults, obvious or not. There are no warranties expressed or implied, including any warranty of merchantability and warranty of fitness for any particular purpose.

"WARNING"

THE COBRA CX65 IS A COMPETITION MODEL ONLY AND IS <u>NOT</u> MANUFACTURED FOR, NOR SHOULD IT BE USED ON PUBLIC STREETS, ROADS OR HIGHWAYS.

THE USE OF THIS BIKE SHOULD BE LIMITED TO PARTICIPATION IN SANCTIONED COMPETITION EVENTS UPON A CLOSED COURSE BY A SUFFICIENTLY SKILLED RIDER AND SHOULD NOT BE USED FOR GENERAL OFF-ROAD RECREATIONAL RIDING.

IMPROPER USE OF THIS MOTORCYCLE CAN CAUSE INJURY OR DEATH.

THIS BIKE IS INTENDED FOR EXPERIENCED RACERS ONLY AND NOT FOR BEGINNERS.

IT IS <u>YOUR RESPONSIBILITY</u> AS THE OWNER OF THIS COBRA MOTORCYCLE OR AS THE PARENT, OR LEGAL GUARDIAN OF THE OPERATOR, TO KEEP THIS COBRA MOTORCYCLE IN PROPER OPERATING CONDITION.

THIS BIKE WAS DESIGNED FOR RIDERS THAT WEIGH LESS THAN 110 LBS WITH FULL RIDING GEAR AND SHOULD NOT BE OPERATED BY RIDERS THAT WEIGH MORE THAN THAT.

BE SURE THAT THE RIDER ALWAYS WEARS ADEQUATE SAFETY GEAR EVERYTIME HE OR SHE RIDES THEIR COBRA MOTORCYCLE.

IMPORTANT SAFETY NOTICE

A WARNING

Failure to follow WARNING instructions <u>could result in severe injury or death</u> to the machine operator, a bystander, or a person inspecting or repairing the machine.

CAUTION:

A CAUTION indicates special precautions that must be taken to avoid damage to the machine.

NOTE:

A NOTE provides key information to make procedures easier or clearer.

MCC62021.2

Table of Contents

GENERAL INFORMATION	6
SPECIFICATIONS - GENERAL	6
OPTIONAL COMPONENTS	7
SPECIFICATIONS - TORQUE VALUES	8
Break-In Procedure	9
STARTING PROCEDURE	10
MAINTENANCE	11
TIPS	11
SCHEDULE	11
REPLACING TRANSMISSION / CLUTCH LUBRICANT	12
CHAIN ADJUSTMENT	13
LEVER ADJUSTMENT	14
REAR BRAKE MAINTENANCE	14
AIR FILTER CLEANING	16
FORK MAINTENANCE	16
FORK AIR BLEEDING	17
FORK OIL REPLACEMENT	17
IGNITION TIMING	19
Cable Ties	20
PARTS	21
Parts – Air Box & Inlet System	21
Parts – Bars and Controls	22
Parts - Carburetor	23
Parts – Clutch – Master Cylinder	24
Parts - Coolant System	25
Parts – Electrical System	26
Parts – Engine Clutch	27
Parts – Engine – Clutch / Kick Cover	28
Parts – Engine – Ignition Side	29
Parts – Engine – Kick Mechanism & Water Pump	30
Parts – Engine – Shift Mechanism	31
Parts – Engine – Top End	32
Parts – Engine – Transmission	34
Parts – Engine – Power Valve	36
Parts – Exhaust System	37
Parts – Forks & Triple Clamps	38

	PARTS - FORK - LEG ASSEMBLY - BRAKE SIDE	40
	PARTS - FORK - LEG ASSEMBLY - NON-BRAKE SIDE	41
	PARTS – FRAME	42
	PARTS – FRONT WHEEL	43
	PARTS – FRONT BRAKES – MASTER CYLINDER	44
	PARTS – FRONT BRAKES – CALIPER	45
	PARTS – PLASTIC BODYWORK & SEAT	46
	Parts – Rear Brake	48
	PARTS – REAR WHEEL	49
	PARTS – SHOCK EXTERNAL	50
	PARTS – SHOCK – INTERNAL	51
	PARTS – SWINGARM ASSEMBLY	52
S	ERVICE	53
	Engine Service	53
	Base Gasket Selection	
	Power Valve	
	EXHAUST	57
	FUEL & AIR SYSTEM	57
	CARBURETOR:	57
	REAR SHOCK	58
	Brakes	59
	Rear Brakes	
	Front BrakesFRONT WHEEL	
	Assembly	
	IGNITION	
т	UNING	62
•	GEARING	
	SUSPENSION	
	Adjustment:Front Fork Operation	
	Fork Damping Adjustments	64
	Rear Shock Adjustments	
	CARBURETOR	66
т	ROUBLESHOOTING	68

General Information

Specifications - General

Items	CX65
Dimensions	
Wheelbase	40.9" (1040mm)
Wheel size	12" (305mm) rear, 14" (356mm) front
Seat height	29.9" (760mm)
Engine	
Туре	2-stroke, single cylinder, reed valve
Cooling system	Liquid-cooled
Coolant	Spectro Year - Round Super Coolant
Displacement	64.9 cc
Bore and stroke	44.5 mm x 41.7 mm
Ignition system	Electronic, digital advance
Spark plug	Autolite 4063 or XS4063
Gap	0.024" – 0.026" (0.60 – 0.65 mm)
Ignition timing	Digital advance (set at "0" timing mark)
Fuel type	High octane pump gasoline
Premix Oil type	Spectro Platinum SX ₂
Premix oil ratio after break-in	32:1
Carburetion	26 mm VM Mikuni
Main Jet / Slow (Pilot) Jet	280 / 42.5 51 14 - 4
Needle	51 14 - 4
Needle clip position	4 th slot from top of needle- stock position
Float Height	21.1 ± 1.0
Transmission	6 speed
Final drive ratio	14/45
Chain	112 links 420
Transmission / clutch oil type	Spectro Golden SAE 80 Gear Lube
Quantity	530 ml (18.0oz)
Chassis	
Front tire	60/100 – 14
Rear tire	80/100 – 12
Front fork	CARD 37mm USD, Fully adjustable
Fork oil type	SAE 2.5 WT
Fork oil amount	250 ml (8.5oz)
Adjustments (turns out)	Compression 1 1/2, Rebound 5/8, Bottoming 1
Rear shock (clicks out)	Compression Low 12, High 15, Rebound 16
, ,	Race sag 87mm, Free sag 29mm

Optional Components

Weight of Rider	Fork Spring	Shock Spring
Less than 70 lb	0.24 kg/mm KCC63724	38.5 N/mm (220 lb/in) SCC60220P (red)
70 - 80 lb	0.24 kg/mm KCC63724	42 N/mm (240 lb/in) SCC60240P (white)
80 - 90 lb	0.26 kg/mm KCC63726	45 N/mm (260 lb/in) SCC60260PY stock (yellow)
90 - 100 lb	0.28 kg/mm KCC63728	49 N/mm (280 lb/in) SCC60280PG (gold)
Greater than 100		53 N/mm (300 lb/in) SCC60300 (red)

Specifications - Torque Values

Factoria	Torque Value		Note or	0: 0.0 1	
Fastener	ft-lb	in-lb	Nm	Loctite™	Size & Remarks
Cylinder head nuts	9	110	12		M6 x 1.0
Cylinder nuts	22	265	30		M8 x 1.25**
Crankcase bolts	9	110	12		M6 x 1.0
PV Cap Screws	3	35	4		M5 x 0.8
Exhaust Flange	4.5	53	6		M6 x 1.0
Spark plug	(SP)	(SP)	(SP)		M14 x 1.25
Stator bolts	2.1	25	2.8	243 blue	M5 X 0.8
Stator cover bolts	1.7	20	2.3		M4 X 0.75
Clutch cover bolts	5.8	70	7.9		M6 X 1.0
Clutch nut	40	480	54	243 blue	M10 x 1.25
Crank drive nut	33	400	45	243 blue	M10 x 1.25
Front axle bolt	33	400	45		M20 x 1.0
Front axle pinch bolt	8.8	106	12		M6 X 1.0
Fork guard alum bolts	6	88	8	Moly lube	M6X1, ALUM
Front brake rotor	7.4	88.5	10		M6 x 1.0
Engine mount bolts	22	265	30		M8 X 1.25
Swingarm pivot	21	250	28		M12 X 1.5
Intake manifold bolts	4.6	55	6.2		M6 X 1.0
Rear axle	21	250	28		M14 X 1. 5
Rear sprocket	21	250	28		M7 X 1.0
Rear brake rotor	7.4	88.5	10	243 blue	M6 x 1.0
Rear brake banjo bolts	11	132	15		M8x1.25
Rear brake pad bolts	3	35	4	Retainer clip	M5 x 0.8
Shock bolt	35	420	47	243 blue	M10 x 1.5
Triple clamp bolt (top)	8	90	10		M8 x 1.25
Steering stem pinch bolt	9.5	115	13		M8 x 1.25
Triple clamp bolts	6	72	8		M6 x 1.0
Lever pivot bolts	2.1	25	2.8	243 blue	M5 x .8
Fork cap	15	177	20		
Fork Damper Nut	11	133	15		
Ignition rotor nut	33	400	45	243 blue	M10 x 1.25
Spoke nipple – front	3.7	44	5		
Spoke nipple - rear	4.5	53	6		

^{**} Use a 'crows foot' attachment oriented 90° to the torque wrench

⁽SP) To apply the proper torque to the spark plug when inserting, one must first screw the spark plug in until the metal gasket ring causes resistance and then turn another 1/8 to ½ turn.

Break-In Procedure

Your Cobra CX65 is a close-tolerance high performance machine and break-in time is very important for maximum life and performance. The CX65 can be ridden hard after the first ½ hour break-in time.

Cobra recommends Spectro Platinum SX₂ premix oil with high octane pump gas mixed at 40:1.

CAUTION:

Failure to use proper fuel, oil, or fuel/oil mixture may result in premature engine wear or damage to the machine.

Adhering to the following break-in schedule will result in long lasting high performance machine.

- Start bike on stand
- First 5-minute period, operate the bike on the stand with a combination of idle and high RPM operation. (avoid prolonged high RPM but spin the rear wheel good at least once or twice per minute)
- Allow bike to cool
- Ride for 15 minutes, maximum (avoid prolonged high RPM operation and avoid abusing the clutch).
- Cool and inspect bike for loose fasteners.
- Check & retighten wheel spokes
- Next ½ hour of operation, avoid prolonged operation at Wide Open Throttle.
- After 1 hour of operation
 - Check for loose bolts and nuts on the bike and retighten as necessary (proper toque values are listed under Specifications).
 - Clean the carburetor bowl.
 - Change the transmission / clutch lubricant.
- After 8 hours of operation
 - Change the fork oil.
 - Have a Certified Cobra Mechanic change the shock oil.
- Your bike is now ready for the highest level of competition!

Starting Procedure

Before starting the machine inspect the following:

- Check for proper tire pressure in both tires.
- Observe the chain tension and adjust if necessary.
- Observe the coolant level and fill if necessary.
- Verify that the chain rollers and sliders do not have improper wear.
- Verify that the handlebars are tight.
- Check the throttle for smooth operation and sound closing.
- Check for loose bolts and nuts, and re-torque as necessary.
- Verify that the air filter is clean and properly saturated with oil.
- Insure that the fuel tank contains an adequate volume of fuel / oil mixture to complete the distance required.
- Turn the fuel on by rotating the fuel petcock lever to the vertically downward position.

CAUTION:

For best results from your Cobra Motorcycle use only the recommended fuels. 'Race' fuels can be used, however, they are not required with the stock engine, and the engine will require addition attention to maintain proper jetting as weather condition change throughout the day.

WARNING

Always wear a helmet and other protective riding gear.

When your pre-ride inspection is complete the bike may be started. For a cold engine follow this procedure.

- Place the motorcycle on a stand of sufficient strength that positions the motorcycle in a level upright position with the rear wheel off the ground.
- 2. Engage the choke by pulling out on the choke button until it stops.
- 3. Kick start the engine.
- 4. Rev the engine in short spurts, turning the throttle no more than 1/4 open until the engine will run without the choke.
- 5. Verify a functional engine shut-off switch by shutting off the engine.
- 6. Restart the engine and proceed with riding when the engine is sufficiently warm (i.e. the side of the cylinder is warm to touch).

CAUTION:

Never rev an engine full throttle when it's cold or slightly warmed up. This may lead to premature wear of engine components or complete cold seizure of the engine.

CAUTION:

Cobra recommends that you tell your child to take it easy the first couple of minutes in practice until the engine comes up to full operating temperature.

Maintenance

It is important that you adhere to this maintenance schedule so as to promote the longevity of your Cobra Motorcycle.

Tips

- 1. Cobra lubricants:
 - a. Spectro Golden SAE 80 Gear Lube is the recommended transmission & clutch case lubricant.
 - b. Spectro Platinum SX₂ oil is the recommended **premix oil**:
- 2. Fill your transmission only with the recommended amount of oil. Overfilling may lead to premature seal failure.
- The cylinder base gasket has been 'fitted' for your engine. See the service section of this manual for instructions how to properly size a base gasket during an engine rebuild.
- 4. Evaluate the bikes jetting only after it has been warmed up to race temperatures.
- 5. A properly maintained machine is safer, faster, and more fun to ride.
- 6. New chains will stretch on first use. Never install a new chain prior to a race. Always 'break' them in during practice.
- Your Cobra Motorcycle has a 10-digit VIN (Vehicle Identification Number).
 The first three digits indicate the model while the sixth and seventh indicates the model year.
 - a. Example, CCXxx17xxx is a 2017 CX65.

Schedule

- Prior to each ride
 - Check the air filter (clean and re-oil as necessary).
 - Insure the smooth operation of the throttle cable (throttle soundly 'clacks' shut).
 - Check for frayed strands of the throttle cable inside the throttle housing and replace if necessary.
 - Check for adequate tire pressures and adjust if necessary.
 - Check all nuts and bolts for proper torque and re-torque if necessary.
 - Check drive chain for
 - Proper tension and adjust if necessary.
 - Adequate lubrication and lubricate if necessary.
 - o Insure that the ignition stator and rotor are clean and dry.
 - Check the frame for cracks in the metal or cracks in the paint that might indicate that the metal has been stressed beyond its safe limits. Replace or get properly re-welded as necessary.
 - Check the spokes for tightness and adjust if necessary.
 - Check the rims and hubs for signs of stress, like cracks around the rim, spokes and hub.
 - Equalize the pressure in the forks with atmosphere.
 - Check for adequate brake operation and pad thickness

- Every 2 hours of operation
 - Replace the transmission oil.
 - Check spoke tension
- Every 10 hours of operation
 - Replace the fork oil.
 - Have the shock oil replaced by a Certified Cobra Mechanic
- Every 15 hours
 - Replace piston rings
 - Inspect piston for wear and cracks.
 - Clean the power valve (no adjustment necessary)
 - Inspect the power valve cable.

CAUTION:

If you ever need to weld anything on the bike, disconnect the spark plug cap, unplug the ignition, disconnect the kill switch, scrape the paint bare near the area to be welded and put the ground clamp as close to the area to be welded as possible.

A WARNING

Be sure the fuel tank and carburetor have been removed and safely located away from the welding process.

The frame is a combination of HSLA steel and 4130 Chrome Moly and it is important to weld it with the proper rod and heat settings set as light as possible. Cobra recommends replacing the frame with a new one if the old one becomes damaged. Use ER70S6 filler if welding on the frame.

Replacing Transmission / Clutch Lubricant

Tools needed:

- 18 oz, of Spectro Golden SAE 80 Gear Lube
- 8 mm Allen wrench

CAUTION:

General automotive motor oil has frictional modifiers which will cause premature wear and failure of the clutch.

Procedure:

1. Begin this procedure with a bike that has been ridden more than 5 minutes but less than 10 minutes. It is desired to have the engine warm enough so that the oil is 'runny' but not so hot that there is risk of being burned by the engine or the oil.



A WARNING

Hot oil and hot components on the motorcycle may cause burns.

- 2. Lean the bike against something or set on stand with oil drain hole.
- 3. Using an 8mm Allen wrench, remove the oil drain bolt located on the right side of the engine, on the clutch cover, near the brake lever (See Figure 1).

NOTE: You may need to adjust the brake pedal (up or down) to gain access to the drain bolt.

- 4. After it has drained, reinstall the bolt being sure that the rubber gasket is in place. Torque to 11 Nm (8 ft-lb).
- 5. Remove oil fill plug with an 8mm Allen wrench.
- 6. Carefully pour 16 oz (470 ml) of transmission oil into the oil fill opening.
- 7. Reinstall the oil fill plug making sure the rubber gasket is in place.

NOTE: Filling after an engine rebuild required additional transmission fluid. If the engine is completely flushed of oil, refill with 18 oz (530ml).

A WARNING

Always capture and dispose of used oil properly (all auto parts stores accept used oil). Dumping oil on the ground is illegal, inconsiderate, and can get you disqualified from a race weekend quicker than cutting the track.

Chain adjustment

Tools required for chain adjustment

- 22 mm wrench or socket
- 2 11 mm open-end wrenches
- Make sure that the rear wheel is aligned properly.
- 2. For proper adjustment, the chain should have 35 mm free movement just behind the chain block with no load on the bike (Figure 2)



Figure 2

CAUTION: Sit on the bike and verify that the chain has a minimum of 12mm (1/2") free movement when the chain is at its tightest point.

- If the chain requires adjusting, loosen the axle with a 22mm wrench, and loosen the jam nut with an 11mm wrench. Tighten the chain by rotating the adjustor bolts clockwise (CW) or loosen the chain by rotating the adjustor bolts (CCW).
- 4. Put a rag between the sprocket and chain, and roll the wheel backward to pull the chain adjustor blocks tightly against the adjustor bolts (Figure 3).



Figure 3

- 5. Retighten the axle bolt to 25 ft-lb (34 Nm).
- 6. Retighten the adjustor jam nuts.

CAUTION:

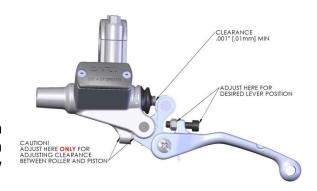
Always check rear brake adjustment and free-play after adjusting the chain.

Lever Adjustment

Tools required for chain adjustment

- 4mm Hex Wrench
- 8mm Open End Wrench

For lever position adjustment use a 4mm hex wrench and an 8mm open end wrench to adjust the socket head cap screw between the lever and the bars.



CAUTION:

The small set screw in the master cylinder housing controls freeplay/clearance between the piston and the roller. Improper adjustment of this screw will promote brake or clutch failure. This scew is preset at the factory. If it requires asjustment over time (as the screw tip makes an indentation in the aluminum) set it so that there is a minimal .001" (.001mm) clearance between the roller and the head of the piston (see figure).

Rear Brake Maintenance

CAUTION:

Too little brake pedal free-play will allow the brake pads to drag causing the pads to wear prematurely and possible engine component failures. Too much free-play will not allow the rider to apply the brakes quickly.

- 1. Set pedal height/position first, then
- 2. Set pedal free play.

Brake pedal height can be adjusted with the bolt and eccentric located under the rear of the brake pedal. The free-play is adjusted with the adjustable plunger on the end of the brake pedal.

CAUTION:

Use only DOT 4 compatible brake fluid

Setting rear brake pedal position:

- 1. Loosen the Cap Screw in the Eccentric (5mm Allen wrench).
- 2. Rotate the eccentric so that the lever is comfortably reachable in both:
 - a. Standing riding position, and
 - b. Sitting riding position.
- 3. Tighten Cap Screw (5 mm Allen wrench).

CAUTION:

Adequate pedal free play is required so that the brake pads do not drag on the rotor.

A WARNING

Make sure that the free play locking clip is installed such that one must push forward, toward the front of the bike, to remove. Otherwise the clip is apt to come undone while riding.

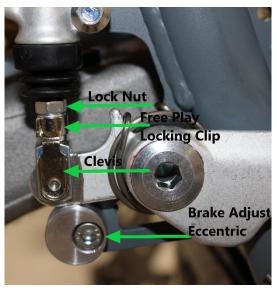


Figure 2b

To adjust freeplay (see figure 2b):

- 1. Loosen the lock nut (10mm).
- 2. Undo the free play locking clip from around the brake adjustor (plunger), with your hand by pushing it forward.
- 3. Slide the pin of the locking free play locking clip from the brake lever
- 4. Adjust as needed by rotating the clevis on the end of the adjustor (plunger).

NOTE: Turning the clevis Clockwise will lengthen the adjustor (plunger), removing free play from the system, and turning the clevis Counter-Clockwise will shorten the adjustor (plunger) adding free play to the system.

Air Filter Cleaning

Tools recommended for air filter maintenance:

- 5 mm hex key (Allen)
- Foam filter oil
- 1. Removed seat with the 5mm hex key.
- 2. Unhook the air filter wire from its perch
- Carefully remove the air filter and frame out the top of the airbox making sure not to dislodge any dirt into the intake tract.
- 4. Clean the filter in a nonflammable solvent to remove the filter oil.



A WARNING

Do not clean the air filter with gasoline or other highly volatile petroleum product. Diesel fuel, mineral spirits, or kerosene would be preferred but caution should still be taken.

- 5. Clean the filter in hot soapy water to remove all dirt particles.
- 6. Allow it to dry thoroughly.
- 7. Saturate with filter oil and remove excess.

NOTE: It is very important to keep the air filter clean and properly oiled with high quality water-resistant foam filter oil. Apply oil consistently because varied amounts of oil will affect carburetor jetting.

8. **Reinstall** the filter assembly by pushing it down and forward into the airbox making sure the lip of the filter cage is properly seated into its receptacle (figure 5). Reinstall the air filter cap and holding wire.



Figure 5

CAUTION:

Double check to insure that the filter is pushed in tight at the bottom

NOTE: Make sure you change or clean your filter after each moto. We recommend carrying multiple filters in your toolbox, one for each practice session and moto.

Fork Maintenance

Cobra strongly recommends that a professional service technician conduct all internal maintenance other than changing springs and oil. This will help to ensure safe and consistent operation.

For routine maintenance, the chart below provides suggested service intervals for common procedures:

	Each Ride	<u>10 hours</u>	20 hours	As Needed
Bleed excess air	<u>X</u>			
Change Oil		<u>X</u>		
<u>Change</u>			v	
Seal/Swiper			_	
Change Bushings				X

Fork Air Bleeding

Tools required

• 3mm hex key (Allen wrench)

During normal operation, both fork legs will build up air pressure. This pressure acts as an additional spring so it must be bled on a regular basis to maintain consistent suspension operation. Before each ride, loosen the socket head cap screw located at the front of each fork cap far enough so that any excess pressure in the leg is relieved. After excess air is bled off, retighten the screw to 5 in-lb. Be careful not to lose or damage the sealing ring that is located under the head of each bleed screw.

Fork Oil Replacement

Tools required

- 37mm Fork Cap Tool (MCMUTL37)
- 22mm closed-end wrench or socket
- 14mm open-end wrench
- Drift punch (12mm OD x 300mm long (1/2" x 12"))
- 5 & 6 mm hex key (Allen wrench)
- Mallet
- 5 wt. Spectro fork oil

Disassembly procedure

- 1. Remove the front wheel.
 - a. Loosen the brake-side axle pinch bolts (5mm hex key)
 - b. Carefully remove the brake side axle cap using a closed-end wrench to protect the cap from damage. (22mm wrench)
 - c. Loosen the non-brake side axle pinch bolts (5mm hex key)



- d. Using the drift punch (a long 3/8 socket extension will also work), remove the axle from the fork lugs by placing the punch inside the hollow axle and tapping lightly on the exposed end with the mallet.
- e. Carefully slide with wheel downward out of the brake caliper.
- 2. Remove the brake caliper from the fork leg (6mm hex key).
- 3. Loosen the fork caps (Cobra 37mm Fork Cap Tool).
- 4. Remove the fork legs from the triple clamps (5mm hex key).
- 5. One leg at a time:
 - a. Remove the fork cap from the fork tube.
 - b. Lower the fork tube to expose the fork spring.
 - c. Pull the fork spring down from the fork cap to expose the damper rod lock nut. Secure this nut using a 14mm wrench.
 - d. With the 14mm wrench on the damper rod nut, use the 37mm fork cap wrench to free the fork cap from the damper rod.
 - e. Remove the 14mm wrench and allow the damper rod to fall into the cartridge tube.
 - f. Remove the fork spring.
 - g. Invert the fork to allow the oil to drain. Pump the damper rod assembly several times to help any excess oil trapped in the cartridge to drain.

Assembly procedure

- 1. Completely collapse the outer fork tube onto the stanchion tube.
- 2. Pump the damper rod up and down slowly to help the assembly fill with oil.
- 3. Install the fork spring.
- 4. Use a flexible retrieving tool to pull the damper rod up through the fork spring and thread the damper rod into the fork cap.

CAUTION:

Ensure that the fork cap is completely threaded onto the damper rod before it makes contact with the lock nut.

5. Pull the fork spring down from the cap and torque the damper rod lock nut to 15 N-m (11ft-lb) with a 14mm wrench.

CAUTION:

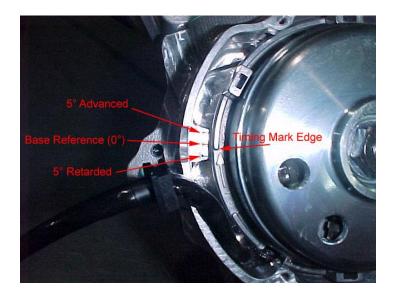
The damper rod is hollow and will break if the nut is over tightened.

- 6. Ensure that the fork cap O-ring is in good condition, Use the 37mm fork cap wrench to secure the fork cap to the fork outer tube. Torque the fork cap to 20 Nm (15 ft-lb).
- 7. Pump the fork leg several times to verify that it operates smoothly.
- 8. Install each leg back into the triple clamp. Torque each pinch bolt to 11N-m (8 ft-lb) making sure both legs are set to the same height in the clamps.
- 9. Reinstall the brake caliper.
- 10. Reinstall the front wheel.
 - 1. Install axle through non-brake side fork lug and wheel hub

- 2. Slide wheel spacer over axle taking care to ensure that the internal O-ring is in place.
- 3. Continue sliding axle through brake-side lug and reinstall axle cap (6 ft-lb, 8 Nm)
- 4. Lightly torque all four axle pinch bolts
- 5. Drop the bike onto the ground, engage the front brake, and push up and down on the handlebars several times to ensure that the front forks and the front wheel are properly aligned with each other.
- 6. Apply final torque to all four axle pinch bolts (7.4 ft-lb, 10 Nm)

Ignition Timing

The ignition timing value for the CX65 is 0° retarded from the standard base reference (0°). This can be verified by removing the ignition cover and looking as shown in the figure below.



The center mark on the cases is the standard base reference timing mark (0°), and the other two large marks are 5° advanced and retarded. The small timing marks between 0 & 5° is 2.5°.

To change the timing, one must remove the flywheel with Cobra 65 flywheel puller # MCMUTL05. After the flywheel has been removed, the timing can be adjusted by loosening the stator bolts and rotating the stator to the desired position.

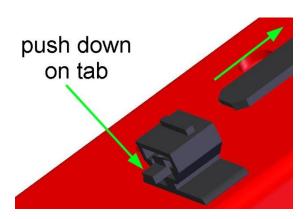
Cable Ties

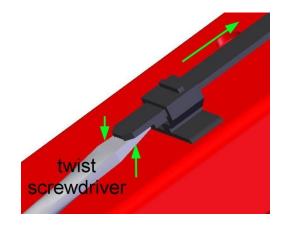
There is one location where we have used reusable frame mount cable ties this

year on the CX65.



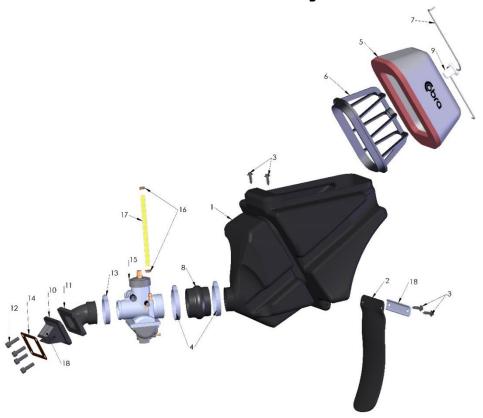
To disconnect these cable ties, use a screw driver as shown and push down on the short tab. The tab will be hidden from view by the cable tie strap.





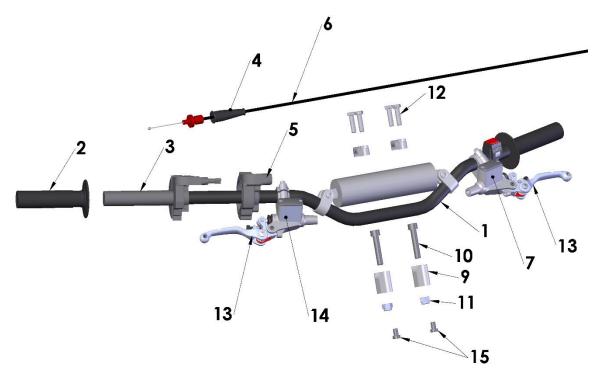
Parts

Parts – Air Box & Inlet System



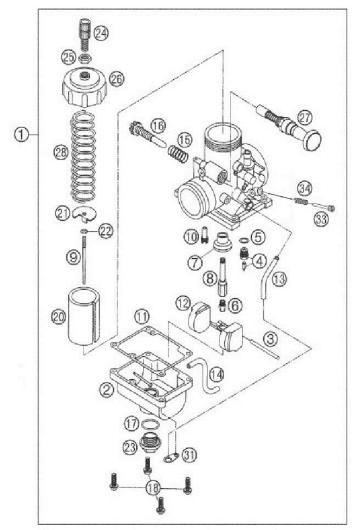
Air Box & Inlet				
REF#	PART #	DESCRIPTION		
1	RCC60007	AIRBOX		
2	TCC60008	MUD FLAP		
	TCC60125	BRACKET - MUDFLAP		
3	HCSP0004	SCREW – PLASCREW		
4	MCKGHO03	CLAMP, AIR BOOT TO AIR BOX		
5	RCC60002	AIR FILTER		
6	RCC60003	AIR FILTER CAGE		
7	RCC60004	AIR FILTER WIRE		
8 RCC60014		AIR BOOT, CARB TO AIRBOX		
9	RCC60006	AIR FILTER CAP		
10 ECC60006		REED ASSEMBLY		
11 ECC60007		INLET MANIFOLD		
12 HCBC0625		M6x25mm SOCKET HEAD CAP SCREW		
	HCWF0601	M6 FLAT WASHER		
13	MCC60003	CLAMP, MANIFOLD TO CARB		
14	ZCC60021	GASKET REED		
15	RCR60026	CARBURETOR 26mm MIKUNI		
16	MCMUCL04	HOSE CLAMP 8mm		
17	FCMU0026	FUEL LINE		
18	TCC60125	MUD FLAP BRACKET		
18	ECC60014	REED PETALS – REPLACEMENT		

Parts – Bars and Controls



Bars and Controls				
REF #	PART # DESCRIPTION			
1	FAC60023	HANDLEBARS – PROTAPER CX65		
2	TCC60035	GRIPS – PROTAPER (SET OF TWO)		
3	FCMU0066	THROTTLE ASSEMBLY		
	FCMU0042	TUBE – THROTTLE		
4	FCPW0004	CABLE COVER		
5	FCMU0021	THROTTLE COVER		
6	RAC60001	THROTTLE CABLE		
7	CCC60022	MASTER CYLINDER ASSEMBLY – MAGURA – W LEVER		
8	FCMU0033	KILL SWITCH ASSEMBLY		
9	TKMU0404	BAR MOUNT KIT, SHORT (1 REQ'D) STANDARD		
9A	TKMU0403	BAR MOUNT KIT, TALL (1 REQ'D)		
10	HCBC1035	M10X35mm SOCKET HEAD CAP SCREW (2 REQ'D)		
11	HCNL1001	M10 LOCK NUT		
12	HCBC0806	M8 X 30 SCOCKET HEAD CAP SCREW (4 REQ'D)		
13A	CCC60034	LEVER – CLUTCH – MAGURA		
13B	CKC60004	LEVER ASSY – BRAKE - CARD		
14	BAC60010	MASTER CYLINDER ASSEMBLY - BRAKE - WITH LEVER		
15	HCBC0812	M8 X 12 SHCS - LOW PROFILE (2 REQ'D)		
	MCMU0001	PAD – CROSS BAR		
ACCESSORY	BKC60015	REBUILD KIT – MASTER CYLINDER - BRAKE - ZL		
ACCESSORY	CCC60038	REBUILD KIT – CLUTCH MASTER CYLINDER - MAGURA		

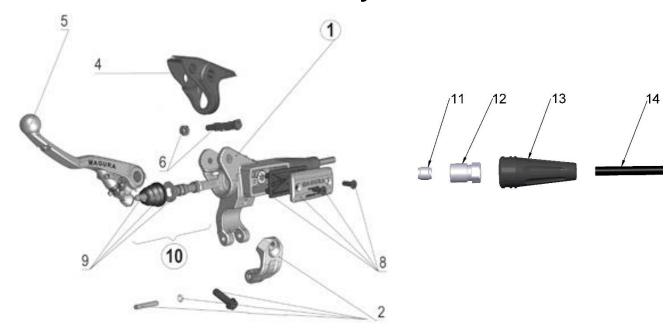
Parts - Carburetor



		Carburetor
REF.#	PART#	DESCRIPTION
1	RCR60026	CARBURETOR 26MM MIKUNI
2	RCC60017	FLOAT BOWL CHAMBER
4	RCMU0271	NEEDLE VALVE & SEAT ASSY
6	SEE BELOW	MAIN JET
9	RCEX0026	NEEDLE JET STOCK 5L14
10	SEE BELOW	PILOT JET
11	RCC60013	GASKET, FLOAT BOWL
15	RCEX0016	SPRING IDLE ADJUST SCREW
16	RCEX0015	IDLE ADJUST SCREW
17	ZCDCOR01	O'RING BOWL PLUG
18	RCEX0012	FLOAT BOWL SCREW
20	RCC60025	SLIDE
21	RCC60016	SLIDE STUFFER
22	RCMU0277	CLIP – NEEDLE
24	RCEX0005	ADJUSTER
25	RCEX0006	LOCK NUT
27	RCC60026	CHOKE ASSY
33	RCEX0013	AIR ADJUSTING SCREW
34	RCEX0014	SPRING – AIR ADJUST SCREW
NOT	RCMU0415	CABLE ADJUSTER CAP (RUBBER)
SHOWN	RCC60021	AIR SCREW O-RING
SHOWIN	RCC60020	AIR SCREW WASHER

PILO	T JET	MAI	N JET
30 RCEX0030		190	RCMU0190
32.5	RCEX0032	195	RCMU0195
35	RCEX0035	200	RCMU0200
37.5	RCEX0037	205	RCMU0205
40	RCEX0040	210	RCMU0210
42.5	RCEX0042	215	RCMU0215
45	RCEX0045	220	RCMU0220
47.5 RCEX0047		230	RCMU0230
50	50 RCEX0050		RCMU0240
52.5	52.5 RCEX0052		RCMU1250
55	RCEX0055	260	RCMU1260
57.5	57.5 RCEX0057		RCMU1270
60	60 RCEX0060		RCMU1280
		290	RCMU1290
		300	RCMU1300
		310	RCMU1310

Parts – Clutch – Master Cylinder



	Clutch – Master Cylinder				
REF#	PART#	DESCRIPTION			
1	CCC60022	MASTER CYLINDER – CLUTCH – MAGURA			
2	CCC60033	CLAMP W/PIN – CLUTCH MASTER CYLINDER			
4	CCC60039	COVER – CLUTCH LEVER PIVOT - MAGURA			
5	CCC60034	LEVER – MAGURA CLUTCH			
6	CCC60035	SCREW & NUT – CLUTCH LEVER – MAGURA			
8	CCC60037	COVER – CLUTCH RESERVOIR – MAGURA MINERAL OIL			
9	CCC60036	PUSH ROD & BELLOWS - CLUTCH LEVER - MAGURA			
10	CCC60038	REBUILD KIT – CLUTCH MASTER CYLINDER 9.5			
11	BCMU0017	FERRULE – COMPRESSION FITTING			
12	BCMU0020	FITTING – THREADED CLUTCH LINE END			
13	BCMU0021	COVER – FOR SLEEVE NUT			
14	CCC60041	LINE – CLUTCH - REPLACEMENT KIT – FORGED COVER			
		(LINE & 2 FERRULES)			

Parts – Coolant System

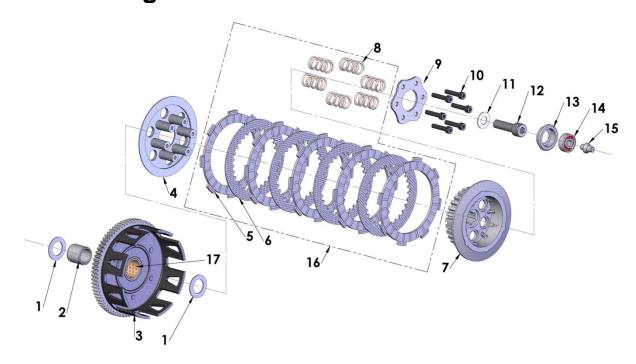


Coolant System				
REF#	PART#	DESCRIPTION		
1	FCC60060	RADIATOR W/CAP - CX65		
2	FCMU0052	CAP – 1.3 BAR		
3	MCMUCL05	HOSE CLAMP 11-20 UNIVERSAL		
4	FCKG0214	HOSE – OVERFLOW		
5	FCDC0009	RADIATOR LOUVER-CX65		
6	HCPP0001	PUSH PIN – REMOVABLE		
7	HCCN0000	5mm EXTRUDED "U" NUT		
8	ECC60034	HOSE RADIATOR UPPER		
9	MCMUCL07	CLAMP – HOSE - RADIATOR MEDIUM (4 REQ'D)		
10	ECC60192	HOSE – RADIATOR BOTTOM		
12	MCMUGR03	GROMMET RADIATOR (2 REQ'D)		
13	HCWF1478	6mm WASHER 22mm OD BLK ZINC (2 REQ'D)		
14	HCBF0620	M6X20mm FLANGED HEX - 8mm HEAD (2 REQ'D)		
15	HCBH0805	M8 X 12mm HEX HEAD BOLT		
16	HCWC0000	WASHER – COPPER		
ACCESSORY	ECR60020	HOSE SET SILICONE - RED		
ACCESSORY	ECR60021	HOSE SET SILICONE - BLUE		
TOOL	MCMUTL16	TOOL – RAD CAP REMOVAL		

Parts – Electrical System

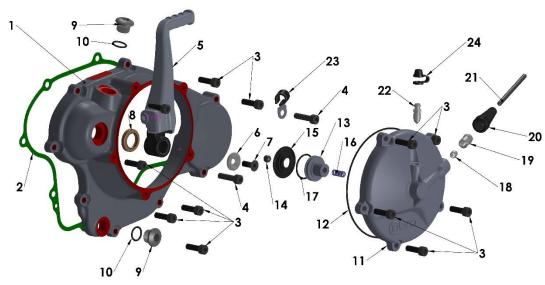
Floatrical Cyatam			
Electrical System			
REF#	PART#	DESCRIPTION	
1	ICC60014	STATOR – POWER VALVE CX65	
2	HCBT0516	M5X16mm TORX HEAD SCREW (3 REQ'D)	
3	HCWF0501	5mm FLAT WASHER (3 REQ'D)	
4	ICC60007	ROTOR OUTER STYLE CX65	
5	ICMU0012	WOODRUFF KEY (NOT SHOWN)	
6	HCWF0010	10mm FLAT WASHER	
7	HCNS1001	M10 NUT	
8	ICC60017	CDI UNIT – POWER VALVE CX65	
9	ICMU0035	MOUNT – CDI	
10	ICC60005	COIL DIGITAL 65	
11	HCBC0516	M5X16mm SOCKET HEAD CAP SCREW – COIL MOUNTING (2 REQ'D)	
12	HCWF0501	5mm WASHER – COIL MOUNTING (2 REQ'D)	
13	HCCN0000	5mm EXTRUDED "U" NUT – COIL MOUNTING (2 REQ'D)	
14	ECMU0033I	SPARK PLUG	
15	FCMU0033	KILL SWITCH ASSEMBLY	
16	ECC60166	COVER – IGNITION	
17	HCBC0402	M4X35mm SOCKET HEAD CAP SCREW – COVER MOUNTING (3 REQ'D)	
		, , ,	
NOT SHOWN	FCMU0030	COVER – KILL SWITCH SCREW	
ACCESSORY	ICMU0016	SPARK PLUG CAP 5K Ω	
ACCESSORY	MCKGGR00	GROMMET WIRE PROTECTION (2 PLACES)	
TOOLS	MCMUTL05	PULLER – FLYWHEEL	
TOOLS	MCMUTL19	HARNESS – DIAGNOSTIC BREAKOUT	

Parts – Engine Clutch



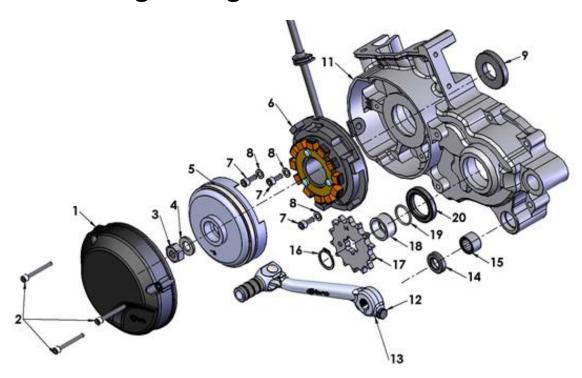
Clutch Components		
REF.#	PART#	DESCRIPTION
1	ECDC0063	CLUTCH WASHER (2 REQ'D)
2	ECDC0064	CLUTCH BUSHING – INNER / STEEL
3	EAEX0003	CLUTCH BASKET ASSEMBLY (INCLUDES ECDC0167)
4	ECDC0066	CLUTCH PRESSURE PLATE
5	ECDC0068	CLUTCH DISC-FRICTION – (5 REQ'D)
6	ECDC0067	CLUTCH DISC-STEEL – (4 REQ'D)
7	ECDC0069	CLUTCH HUB
8	ECDC0070	SPRING, CLUTCH – (6 REQ'D)
9	ECDC0071	PLATE, CLUTCH SPRING
10	HCBC0525	M5X25mm SOCKET HEAD CAP SCREW (6 REQ'D)
11	ECDC0030	SPRING WASHER – CLUTCH
12	HCBF1030	M10X30mm FLANGE HEAD BOLT
13	ECDC0019	CLUTCH BEARING SEAT
14	ECDC0018	BEARING, CLUTCH THROW OUT
15	ECC60190	PUSH ROD – CLUTCH 2015
16	CKMU0001	CLUTCH KIT INCLUDING – SPRINGS, STEELS AND FIBERS
17	ECDC0167	CLUTCH BUSHING – OUTER / BRONZE (REPLACEMENT)
ACCESSORY	CKC60002	CLUTCH BASKET REPLACEMENT KIT

Parts – Engine – Clutch / Kick Cover



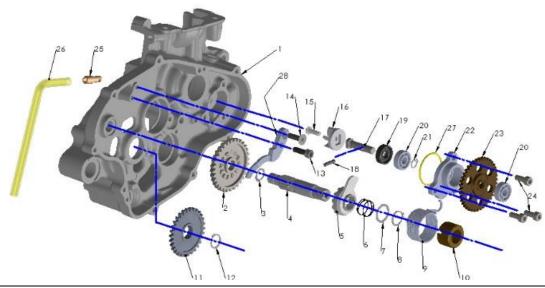
	Clutch / Kick Cover Components			
REF.#	PART#	DESCRIPTION		
1	ECC60178	COVER – CLUTCH		
2	ZCC60016	GASKET – CLUTCHCOVER		
3	HCBC0602	M6X20mm SOCKET HEAD CAP SCREW (12 TOTAL REQ'D)		
		(7 REQ'D FOR CLUTCH COVER, 5 REQ'D FOR CLUTCH CAP)		
4	HCBC0625	M6X25mm SOCKET HEAD CAP SCREW (2 REQ'D)		
5	EAMU0011	LEVER ASSEMBLY – KICKSTARTER		
6	ECMU0250	WASHER – KICK LEVER		
7	HCFH0616	M6X16mm FLAT HEAD CAP SCREW		
8	ECDC0078	SEAL – KICKSTARTER		
9	ECMU0168	OIL FILL PLUG, ALUMINUM		
10	ZCMUB014	O-RING – OIL FILL PLUG		
11	ECC60179	CAP – CLUTCH - W/SLAVE CYLINDER		
12	ZCC60013	O-RING – CLUTCH CAP		
13	CCC60005	PISTON – CLUTCH SLAVE CYLINDER		
14	CCEX0009	BALL – CLUTCH ENGAGEMENT		
15	CCC60007	BELLOWS – CLUTCH SLAVE		
16	CCC60006	SPRING – SLAVE RETURN		
17	ZCMUOR35	O-RING – SLAVE PISTON – MINERAL OIL		
18	BCMU0017	FERRULE – COMPRESSION FITTING		
19	BCMU0020	FITTING – THREADED CLUTCH LINE END		
20	BCMU0021	COVER – RUBBER CLUTCH LINE END		
21	CCC60040	LINE – CLUTCH REPLACEMENT		
22	BCMU0018	FITTING – BLEED, CLUTCH LINE		
23	CCC60030	CLAMP – CLUTCH LINE		
24	BCC60034	CAP - BLEED SCREW		
ACCESSORY	EKMU0002	PIVOT SPRING, BALL AND SET SCREW KIT – KICK STARTER		

Parts – Engine – Ignition Side



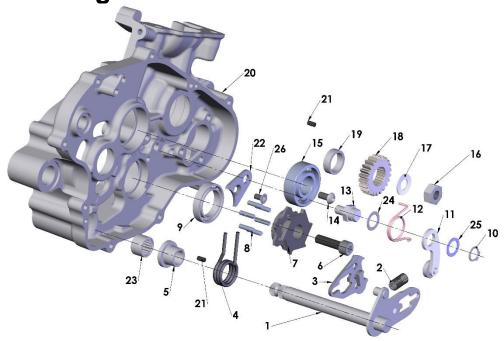
	Ignition Side Engine Components		
REF.#	PART #	DESCRIPTION	
1	ECC60166	IGNITION COVER	
2	HCBC0402	M4X35mm SOCKET HEAD CAP SCREW (3 REQ'D)	
3	HCNS1001	M10 NUT	
4	HCWF0010	10mm FLAT WASHER	
5	ICC60007	ROTOR PVL OUTER STYLE	
6	ICC60014	STATOR PVL DIGITAL – POWER VALVE CX65	
7	HCBT0516	M5X16mm BUTTON HEAD TORX (3 REQ'D)	
8	HCWF0501	5mm WASHER FLAT (3 REQ'D)	
9	ECDC0024	SEAL, CRANKSHAFT	
11	EKC62015	ENGINE CASE SET W/B&S CX65 – 2015 AND NEWER	
12	HCBH0602	M6X25mm HEX HEAD BOLT	
13	ECR60015	SHIFTER LEVER – ALUMINUM	
14	ECDC0026	SEAL, SHIFTER	
15	ECMU0020	BEARING, SHIFTER SHAFT	
16	ECKGSR03	SNAP RING – OUTPUT - COBRA	
17	PCKG00xx	xx DENOTES TEETH – RANGE OF TEETH (13-16)	
18	ECDC0009	SPACER, SPROCKET	
19	ZCMUOR21	O-RING, SPROCKET SPACER	
20	ECDC0025	SEAL, OUTPUT	

Parts – Engine – Kick Mechanism & Water Pump



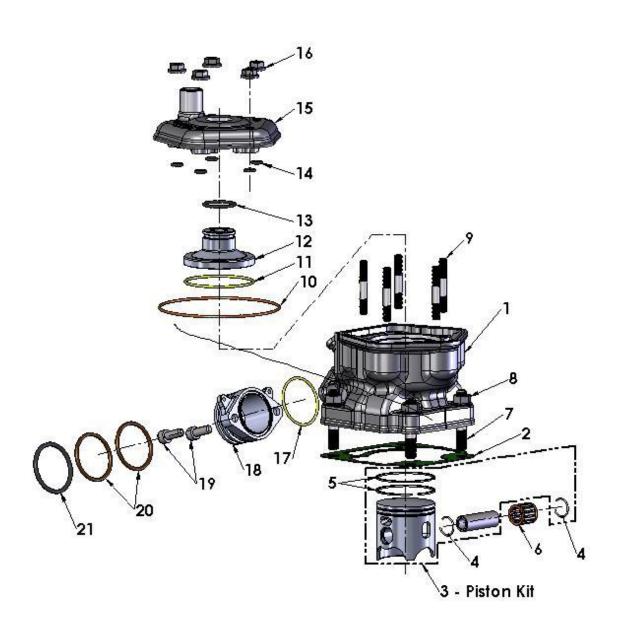
	Viels Marshautieus			
	Kick Mechanism			
REF.#	PART#	DESCRIPTION		
1	EKC62015	CRANKCASE – SET WITH BEARINGS & SEALS		
2	ECDC0033	GEAR, KICKSTART		
3	ECDC0035	SNAP RING, EXTERNAL 12mm		
4	ECC60203	SHAFT, KICK STARTER – THREADED		
5	ECC60201	GEAR – KICK RAMP - NO ARM		
6	ECDC0042	SPRING, KICKSTART RAMP		
7	ECDC0043	WASHER, KICKSTART BACKUP		
8	ECDC0036	SNAP RING, EXTERNAL 16mm - SPRING RET.		
9	ECC60067	SPRING – KICK RETURN CX65		
10	ECC60202	SPACER – KICK SPRING CENTERING - 2015		
11	ECDC0032	GEAR, KICK START IDLE		
12	ECDC0037	SNAP RING, EXTERNAL 15mm		
13	ECMU0174	HOLDER – SPRING 20MM		
14	HCFH0616	M6 X 16 FLAT HEAD SCREW		
15	HCBB0403	M4 X 8 BUTTON HEAD		
16	ECKG0073	IMPELLER – WATERPUMP		
17	ECC60173	SHAFT – WATERPUMP		
18	ECDC0051	PIN – DOWEL		
19	ECC60175	SEAL – WATERPUMP		
20	ECC60174	BEARING – WATERPUMP		
21	ECC60176	SNAP RING – 8MM SHAFT		
22	ECC60177	HOUSING – WATERPUMP		
23	ECC60172	GEAR – WATERPMP DRIVE		
24	HCBC0601	M6 X 16 SOCKET HEAD CAP SCREW (3 REQ'D)		
25	ECMU0233	FITTING, VENT HOSE		
26	ECMU0534	VENT HOSE		
27	ZCMUOR07	O'RING – WATER PUMP		
28	ECC60200	RAMP W STOP - KICK MECHANISM		

Parts – Engine – Shift Mechanism



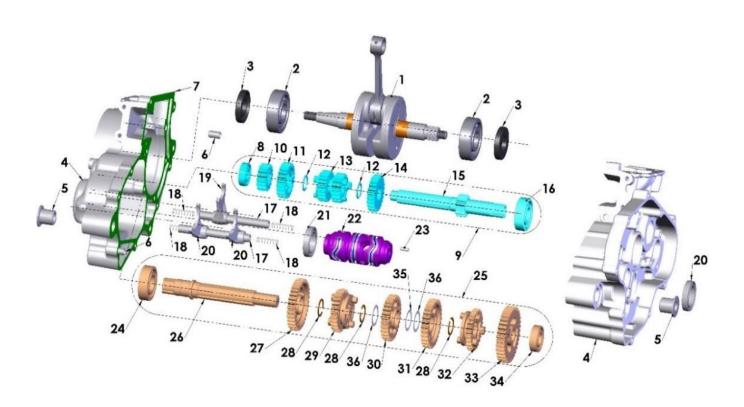
	Shifting Components		
REF#	PART#	DESCRIPTION	
1	EAC60017	SHAFT – SHIFTER W/ PIVOT PLATE	
2	ECDC0055	SPRING – SHIFTER PLATES	
3	EAC60018	PLATE – SHIFT SLIDING	
4	ECC60124	SPRING – SHIFTER SHAFT CENTERING	
5	ECC60146	BUSHING – SPRING CENTERING	
6	HCBC0806	M8X30mm SOCKET HEAD CAP SCREW (BLACK OXIDE)	
7	ECC60189	CASSETTE – SHIFT (W/O PINS)	
8	ECDC0051	DOWEL - SHIFT CASSETTE (6 & 1 REQ'D)	
9	ECDC0022	BEARING – SHIFT DRUM	
10	ECDC0035	CLIP – ARM RETAINER	
11	ECMU0545	ARM ASSY – SHIFT FOLLOWER	
12	ECMU0546	SPRING – SHIFT FOLLOWER ARM	
13	ECC60096	PIVOT – SHIFT ARM	
14	HCBB1612	M6X12mm BUTTON HEAD BLACK OXIDE	
15	ECMU0016	BEARING – PRIMARY SHAFT CLUTCH SIDE	
16	HCNS1001	NUT – M10 X 1.25	
17	ECDC0030	BELLEVILLE – LOCK WASHER - 10MM	
18	ECDC0073	GEAR – CRANK DRIVE	
19	ECC60198	SPACER – CRANK DRIVE GEAR	
20	EKC62015	CRANKCASE – SET WITH BEARINGS & SEALS	
21	ECDC0053	DOWEL - CLUTCH COVER POSITION (2 REQ'D)	
22	ECC60095	PLATE – BEARING RETAINER	
23	ECMU0020	BEARING – SHIFTER SHAFT	
24	ECC60119	SHIM WASHER	
		(NOTE MEASURE SHIM TO ORDER CORRECT SIZE)	
25	ECC60152	SHIM 0.2mm THICK	
25	ECC60153	SHIM 0.3mm THICK	
26	HCFH0512	M5 X 12mm FLAT HEAD SCREW	
NOT SHOWN	ECC60028	COLLAR – SWINGARM PIVOT	

Parts – Engine – Top End



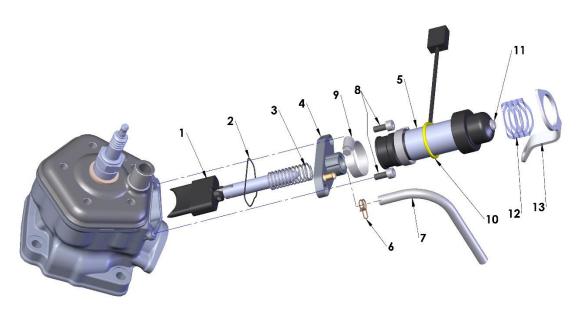
	Engine – Top End		
REF#	PART #	DESCRIPTION	
1	ECC60457	CYLINDER KIT PV CX65 (INCLUDES PISTON KIT & CYLINDER)	
2	ZCC60302	BASE GASKET 0.2mm THICK	
2	ZCC60303	BASE GASKET 0.3mm THICK	
2	ZCC60304	BASE GASKET 0.4mm THICK	
2	ZCC60305	BASE GASKET 0.5mm THICK	
2	ZCC60306	BASE GASKET 0.6mm THICK	
2	ZCC60307	BASE GASKET 0.7mm THICK	
2	ZCC60308	BASE GASKET 0.8mm THICK	
3	ECC60208x	PISTON KIT (x DENOTES PISTON SIZE A,B, or C)	
	ECC60208WP	WRIST PIN – PISTON – 44.5MM CAST	
4	ECC60222	SNAP RING FOR PISTON (2 REQ'D)	
5	ECC60221	PISTON RINGS 44.5mm (2 PER SET)	
6	ECDC0061	BEARING, WRIST PIN	
7	ECC60109	STUD, CYLINDER 8mm (4 REQ'D)	
8	HCNF0801	M8 FLANGE NUT (4 REQ'D)	
9	ECC60107	STUD, CYLINDER 6mm (5 REQ'D)	
10	ZCC60009	O-RING – GASKET LARGE PV HEAD OUTER	
11	ZCMUOR05	O-RING CYLINDER HEAD MEDIUM - YELLOW	
12	ECC60207	CYLINDER HEAD INSERT	
13	ZCMUOR23	O-RING CYLINDER HEAD SMALL	
14	ZCMUOR03	O-RING CYLINDER STUD - YELLOW (5 REQ'D)	
15	ECC60149	CYLINDER HEAD OUTER	
16	HCNF0601	M6 FLANGE NUT (5 REQ'D)	
17	ZCMUOR07	O-RING, EXHAUST FLANGE TO CYLINDER	
18	ECMU0262	FLANGE – EXHAUST	
19	HCBC0601	M6X16mm SOCKET HEAD CAP SCREW (2 REQ'D)	
20	ZCMOTE11	O-RINGS – PIPE TO FLANGE (2 REQ'D)	
21	ZCMUOR11	O-RING – PIPE to FLANGE (1 REQ'D)	
NOT	ZKMUOR13	O-RING KIT – TOP END – CX65 PV	
SHOWN	EAC62017	COMPLETE ENGINE	

Parts – Engine – Transmission



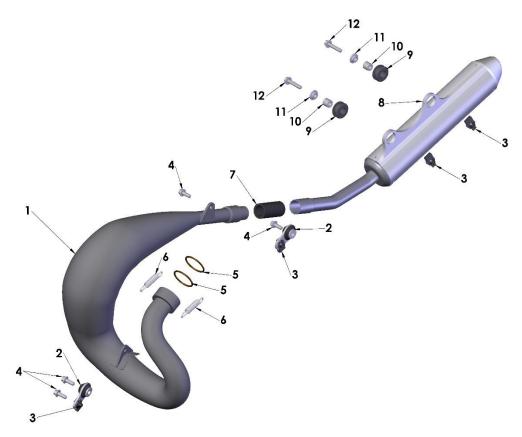
		Transmission
REF#	PART#	DESCRIPTION
1	ECC60219	CRANKSHAFT CX65
2	ECR60007	BEARING - CRANKSHAFT - IGNITION SIDE
3	ECDC0024	SEAL – CRANKSHAFT (2 REQ'D)
ACCESSORY	EKEX0001	ROD KIT
4	EKC62015	CASE SET – ENGINE W/B&S CX65
5	ECC60028	BUSHING - ENGINE / SWINGARM PIVOT CX65
6	ECWX0025	HOLLOW DOWEL - 8.4 x 14 x 7
Case Screws - Short	HCBC0603	M6X30mm SOCKET HEAD CAP SCREW (11 REQ'D)
Case Screws - Long	HCBC0604	M6X35mm SHCS (2 REQ'D) - thru the 2 hollow dowels
7	ZCC60014	GASKET – CENTER CASE
8	ECKG0031	BEARING – PRIMARY SHAFT IGNITION SIDE
9	EAC60041	PRIMARY SHAFT SUB-ASSY
10	ECC60306	GEAR – 2 ND PRIMARY, 16T- INVOLUTE 3 DOG ROUND
11	ECDC0005	GEAR – 5 TH PRIMARY, 23T-3 DOG ROUND
12	ECDC0003	SNAP RING - EXTERNAL 17mm (2 REQ'D)
13	ECC60304	GEAR – 3 RD / 4 TH PRIMARY, 18/21T-INVOLUTE 3 DOG ROUND
14	ECDC0002	GEAR – 6 TH PRIMARY 24T – 3 DOG ROUND
14	ECDC0002	SHAFT – TRANSMISSION PRIMARY (1 ST GEAR), 13T -
15	ECC60301	INVOLUTE
16	ECMU0016	BEARING – PRIMARY SHAFT CLUTCH SIDE
17	ECC60070	ROD – SHIFT FORK (2 REQ'D)
18	ECC60071	SPRING - SHIFT ROD CENTERING (4 REQ'D)
19	ECDC0048	FORK – INPUT - SHIFT
20	ECDC0049	FORK – OUTPUT - SHIFT (2 REQ'D)
21	ECDC0022	BEARING - SHIFT DRUM (2 REQ'D)
22	ECC60186	DRUM – SHIFT
23	ECDC0051	PIN – DOWEL - SHIFT DRUM TO CASSETTE
24	ECKGBR01	BEARING - OUTPUT IGNITION SIDE
25	EAC60042	OUTPUT SHAFT SUB-ASSY
26	ECDC0307	SHAFT – TRANSMISSION OUTPUT – INVOLUTE 4 DOG SQUARE
27	ECC60114	GEAR – 2 ND OUTPUT, 34T – 4 DOG SQUARE
28	ECDC0017	SHAP RING - EXTERNAL 18mm (3 REQ'D)
29	ECC60323	GEAR – 5 TH , OUTPUT, 28T – INVOLUTE 4LD
30	ECC60111	GEAR – 4 TH OUTPUT, 30T – 4 DOG SQUARE
31	ECC60110	GEAR – 3 RD OUTPUT, 31T – 4 DOG SQUARE
32	ECC60325	GEAR – 6 TH OUTPUT, 26T – INVOLUTE 4LD
33	ECC60116	GEAR – 1 ST OUTPUT, 37T – 4 DOG SQUARE
34	ECDC0021	BEARING – OUTPUTSHAFT CLUTCH SIDE
35	ECC60160	SHIM - TRANSMISSION .2mm THK
36	ECC60161	SHIM – TRANSMISSION .5mm THK (2 REQ'D)
ACCESSORY	ECMU0040	SHIM – TRANSMISSION 0.030" (0.8mm) THICK
ACCESSORY	ECMU0040T	SHIM – TRANSMISSION 0.015" (0.4 mm) THIN
	EAC62021	COMPLETE ENGINE

Parts – Engine – Power Valve



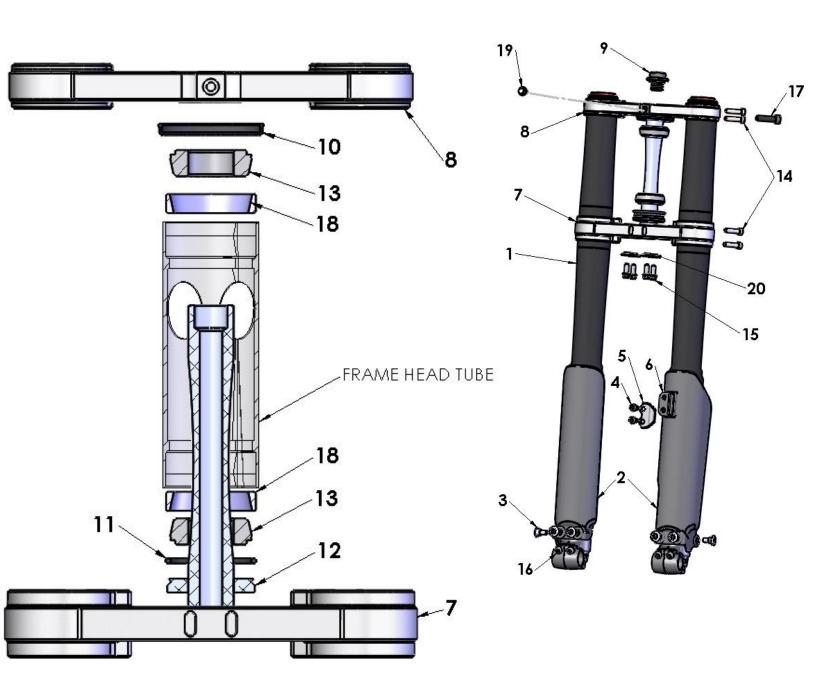
Engine – Power Valve		
REF#	PART#	DESCRIPTION
1	EAC60019	VALVE ASSY – PV - WITH LINK AND PLUNGER
2	ZCC60017	O'RING – PV COVER
3	ECC60217	SPRING – PV RETURN
4	ECC60089	COVER – PV
5	EAC60021	SOLENOID ASSY - PV
6	MCMUCL04	CLAMP – VENT HOSE
7	ECC60133	VENT HOSE
8	HCBC0501	M5X12mm SOCKET HEAD CAP SCREW (2 REQ'D)
9	MCMUCL07	CLAMP – BOOT TO COVER
10	ZCMUOR08	O-RING
11	HCBB0506	M5x 6 BUTTON HEAD CAP SCREW
12	ECC60220	SPRING – PV FACE MOUNT
13	FCC60071	SOLENOID CLAMP - PV
TOOL	MCMUTL19	HARNESS – DIAGNOSTIC BREAKOUT

Parts – Exhaust System



		Exhaust System
REF#	PART#	DESCRIPTION
1	XCC62017	EXPANSION CHAMBER – HGS
2	XCMU0033	ISOLATION MOUNT
3	HCHA0003	6mm CLIP NUT- PLASTIC/PIPE MNT (1 REQ'D FOR PIPE & 2 REQ'D FOR SILENCER)
4	HCBF0616	M6X16mm FLANGE HEAD BOLT (2 REQ'D)
5	ZCMOTE11	O-RING – EXHAUST (2 REQ'D)
6	XCMU0005	SPRING – PIPE – SHORT
7	XCKG0009	SLEEVE – PIPE TO SILENCER
8	XAC62017	SILENCER – COBRA
9	MCMUGR03	GROMMET FOR RADIATOR (2 REQ'D)
10	TCKG0001	SPACER GENERAL ½DIA 13.2 LG (2 REQ'D)
11	TCC60016	SPACER TOP HAT (2 REQ'D)
12	HCBF0635	M6X35mm FLANGE HEX-8mm HEAD
ACCESSORY	XCMU0026	SILENCER PACKING KIT

Parts – Forks & Triple Clamps



Forks & Triple Clamps		
REF#	PART #	DESCRIPTION
1	KAC62013	FORK COMPLETE, BRAKE & NON-BRAKE SIDE
2	KCC60014	FORK GUARDS – PAIR (3 BOLT STYLE)
3	HCSP0610	BOLT - FORK GUARD - 6MM ALUMINUM (6 REQ'D)
4	HCBC0612	M6X12mm SOCKET HEAD CAP SCREW (2 REQ'D)
5	BCC60015	CLAMP – BRAKE LINE
6	HCNS0601	M6 NUT (2 REQ'D)
7	FAC60024	TRIPLE CLAMP BOTTOM ASS'Y (CLAMP & STEERING STEM)
8	FCC60079	TOP TRIPLE CLAMP
9	FCMU0073	BOLT – STEERING STEM
10	FCMU079	DUST COVER (1 REQ'D)
11	FCMU0044	O-RING (1 REQ'D)
12	FCC60081	SEAL RING - ORING - BOTTOM TRIP CLAMP
13	FCMU0004	BEARING – STEERING HEAD (2 REQ'D)
14	HCBC0625	M6X25mm SOCKET HEAD CAP SCREW (8 REQ'D)
15	HCBF0616	M6X16 FLANGE HEAD SCREW (4 REQ'D) FENDER MOUNT
16	HCBC0601	M6X16mm SOCKET HEAD CAP SCREW (4 REQ'D) AXLE
17	HCBC0806	M8X30mm SHCS – STEERING STEM PINCH BOLT
18	FCMU0011	RACE – STEERING HEAD BEARINGS
19	HCBF0612	M6X12 FLANGE HEAD SCREW – NUBER PLATE MOUNT
20	TCC60021	SPACER – FENDER MOUNT
ACCESSORY	FKMU0008	KIT – STEERING STEM BEARINGS, RACES AND SEALS-2019

Parts – Fork – Leg Assembly – Brake Side



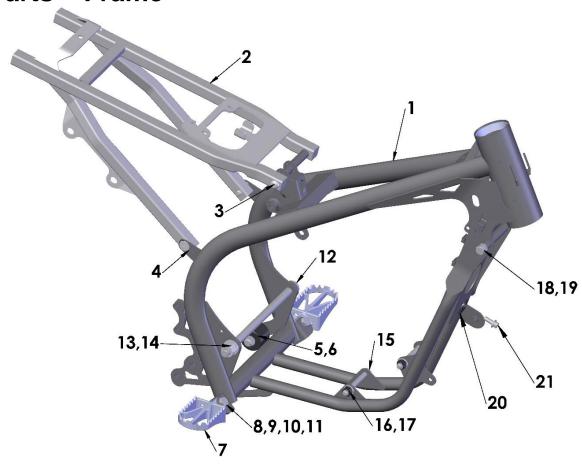
REF# PART # DESCRIPTION 1 HCBC0408 M4X8mm SOCKET HEAD CAP SCREW (BLEED SCREW) 2 ZCKG0001 GASKET BLEED SCREW 3 KCC60044L FORK CAP 4 ZCC60011 O-RING FORK CAP 5 KCC60037 FORK OUTER TUBE 6 KCC60041 FORK GUIDE RING BOTTOM 8 KCC60041 FORK GEAL SPACER 9 KCC60039 FORK SEAL SPACER 9 KCC60039 FORK SEAL RETAINER RING CLIP 11 KCC60066 FORK SEAL RETAINER RING CLIP 11 KCC60067 FORK BUMPER 12 KCC60064 FORK SPRING GUIDE 13 KCC63726 FORK SPRING .26 KG/MM (SINGLE) 13 KCC63724 FORK SPRING .24 KG/MM (SINGLE) 14 HCNJ3824 J8-24 JAM NUT CLASS 8 15 KCC60068 FORK SPRING GUIDE RETAINER RING CLIP 16 KAC60003 FORK DAMPER ROD ASSEMBLY 17 KCC50018 FORK DAMPER ROD ASSEMBLY 17 KCC60049			Fork – Leg Assembly – Brake Side
2 ZCKG0001 GASKET BLEED SCREW 3 KCC60044L FORK CAP 4 ZCC60011 O-RING FORK CAP 5 KCC60037 FORK OUTER WEAR RING CLIP 6 KCC60043 FORK OUTER WEAR RING CLIP 7 KCC60041 FORK GUIDE RING BOTTOM 8 KCC60047 FORK SEAL SPACER 9 KCC60039 FORK SEAL & SWIPER KIT - 37mm - CX65 10 KCC60066 FORK SEAL RETAINER RING CLIP 11 KCC60067 FORK BUMPER 12 KCC60064 FORK SPRING GUIDE 13 KCC63726 FORK SPRING GUIDE 13 KCC63726 FORK SPRING .26 KG/MM (SINGLE) 13 KCC63728 FORK SPRING .28 KG/MM (SINGLE) 14 HCNJ3824 3/8-24 JAM NUT CLASS 8 15 KCC60068 FORK SPRING GUIDE RETAINER RING CLIP 16 KAC60003 FORK MID VALVE SEAL 18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60052 FORK ADJU	REF#	PART#	DESCRIPTION
3	1	HCBC0408	M4X8mm SOCKET HEAD CAP SCREW (BLEED SCREW)
4 ZCC60011 O-RING FORK CAP 5 KCC60037 FORK OUTER TUBE 6 KCC60043 FORK OUTER WEAR RING CLIP 7 KCC60041 FORK GUIDE RING BOTTOM 8 KCC60047 FORK SEAL SPACER 9 KCC60039 FORK SEAL & SWIPER KIT - 37mm - CX65 10 KCC60066 FORK SEAL RETAINER RING CLIP 11 KCC60067 FORK BUMPER 12 KCC60064 FORK SPRING GUIDE 13 KCC63726 FORK SPRING .26 KG/MM (SINGLE) 13 KCC63724 FORK SPRING .28 KG/MM (SINGLE) 13 KCC63728 FORK SPRING .28 KG/MM (SINGLE) 14 HCNJ3824 3/8-24 JAM NUT CLASS 8 15 KCC60068 FORK SPRING GUIDE RETAINER RING CLIP 16 KAC60003 FORK DAMPER ROD ASSEMBLY 17 KCCS0018 FORK MID VALVE SEAL 18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60042 FORK ADJUSTMENT SCREW TOP 21 KCC60042	2	ZCKG0001	GASKET BLEED SCREW
5 KCC60037 FORK OUTER TUBE 6 KCC60043 FORK OUTER WEAR RING CLIP 7 KCC60041 FORK GUIDE RING BOTTOM 8 KCC60047 FORK SEAL SPACER 9 KCC60039 FORK SEAL & SWIPER KIT - 37mm - CX65 10 KCC60066 FORK SEAL RETAINER RING CLIP 11 KCC60067 FORK BUMPER 12 KCC60064 FORK SPRING GUIDE 13 KCC63726 FORK SPRING .26 KG/MM (SINGLE) 13 KCC63724 FORK SPRING .28 KG/MM (SINGLE) 13 KCC63728 FORK SPRING .28 KG/MM (SINGLE) 14 HCNJ3824 3/8-24 JAM NUT CLASS 8 15 KCC60068 FORK SPRING GUIDE RETAINER RING CLIP 16 KAC60003 FORK DAMPER ROD ASSEMBLY 17 KCCS0018 FORK MID VALVE SEAL 18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60042 FORK REBOUND ADJUSTMENT SCREW PIN 21 KCC60049 FORK SPRING PERCH 23 <	3	KCC60044L	FORK CAP
6 KCC60043 FORK OUTER WEAR RING CLIP 7 KCC60041 FORK GUIDE RING BOTTOM 8 KCC60047 FORK SEAL SPACER 9 KCC60039 FORK SEAL & SWIPER KIT - 37mm - CX65 10 KCC60066 FORK SEAL & SWIPER RING CLIP 11 KCC60067 FORK BUMPER 12 KCC60064 FORK SPRING GUIDE 13 KCC63726 FORK SPRING .26 KG/MM (SINGLE) 13 KCC63724 FORK SPRING .24 KG/MM (SINGLE) 13 KCC63728 FORK SPRING .28 KG/MM (SINGLE) 14 HCNJ3824 3/8-24 JAM NUT CLASS 8 15 KCC60068 FORK SPRING GUIDE RETAINER RING CLIP 16 KAC60003 FORK DAMPER ROD ASSEMBLY 17 KCC50018 FORK MID VALVE SEAL 18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60052 FORK ADJUSTMENT SCREW TOP 21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 <td></td> <td>ZCC60011</td> <td>O-RING FORK CAP</td>		ZCC60011	O-RING FORK CAP
7 KCC60041 FORK GUIDE RING BOTTOM 8 KCC60047 FORK SEAL SPACER 9 KCC60039 FORK SEAL & SWIPER KIT - 37mm - CX65 10 KCC60066 FORK SEAL RETAINER RING CLIP 11 KCC60067 FORK BUMPER 12 KCC60064 FORK SPRING GUIDE 13 KCC63726 FORK SPRING .26 KG/MM (SINGLE) 13 KCC63724 FORK SPRING .28 KG/MM (SINGLE) 13 KCC63728 FORK SPRING .28 KG/MM (SINGLE) 14 HCNJ3824 3/8-24 JAM NUT CLASS 8 15 KCC60068 FORK SPRING GUIDE RETAINER RING CLIP 16 KAC60003 FORK DAMPER ROD ASSEMBLY 17 KCC50018 FORK MID VALVE SEAL 18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60052 FORK ABJUSTMENT SCREW TOP 21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24		KCC60037	FORK OUTER TUBE
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9 KCC60039 FORK SEAL & SWIPER KIT - 37mm - CX65 10 KCC60066 FORK SEAL RETAINER RING CLIP 11 KCC60067 FORK BUMPER 12 KCC60064 FORK SPRING GUIDE 13 KCC63726 FORK SPRING .26 KG/MM (SINGLE) 13 KCC63724 FORK SPRING .24 KG/MM (SINGLE) 13 KCC63728 FORK SPRING .28 KG/MM (SINGLE) 14 HCNJ3824 3/8-24 JAM NUT CLASS 8 15 KCC60068 FORK SPRING GUIDE RETAINER RING CLIP 16 KAC60003 FORK DAMPER ROD ASSEMBLY 17 KCCS0018 FORK MID VALVE SEAL 18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60052 FORK ADJUSTMENT SCREW TOP 21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE		KCC60041	FORK GUIDE RING BOTTOM
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11 KCC60067 FORK BUMPER 12 KCC60064 FORK SPRING GUIDE 13 KCC63726 FORK SPRING .26 KG/MM (SINGLE) 13 KCC63724 FORK SPRING .24 KG/MM (SINGLE) 13 KCC63728 FORK SPRING .28 KG/MM (SINGLE) 14 HCNJ3824 3/8-24 JAM NUT CLASS 8 15 KCC60068 FORK SPRING GUIDE RETAINER RING CLIP 16 KAC60003 FORK DAMPER ROD ASSEMBLY 17 KCCS0018 FORK MID VALVE SEAL 18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60052 FORK ADJUSTMENT SCREW TOP 21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE	9	KCC60039	FORK SEAL & SWIPER KIT - 37mm - CX65
12 KCC60064 FORK SPRING GUIDE 13 KCC63726 FORK SPRING .26 KG/MM (SINGLE) 13 KCC63724 FORK SPRING .24 KG/MM (SINGLE) 13 KCC63728 FORK SPRING .28 KG/MM (SINGLE) 14 HCNJ3824 3/8-24 JAM NUT CLASS 8 15 KCC60068 FORK SPRING GUIDE RETAINER RING CLIP 16 KAC60003 FORK DAMPER ROD ASSEMBLY 17 KCCS0018 FORK MID VALVE SEAL 18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60052 FORK ADJUSTMENT SCREW TOP 21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE	10	KCC60066	FORK SEAL RETAINER RING CLIP
13 KCC63726 FORK SPRING .26 KG/MM (SINGLE) 13 KCC63724 FORK SPRING .24 KG/MM (SINGLE) 13 KCC63728 FORK SPRING .28 KG/MM (SINGLE) 14 HCNJ3824 3/8-24 JAM NUT CLASS 8 15 KCC60068 FORK SPRING GUIDE RETAINER RING CLIP 16 KAC60003 FORK DAMPER ROD ASSEMBLY 17 KCCS0018 FORK MID VALVE SEAL 18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60052 FORK ADJUSTMENT SCREW TOP 21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE	11	KCC60067	FORK BUMPER
13 KCC63724 FORK SPRING .24 KG/MM (SINGLE) 13 KCC63728 FORK SPRING .28 KG/MM (SINGLE) 14 HCNJ3824 3/8-24 JAM NUT CLASS 8 15 KCC60068 FORK SPRING GUIDE RETAINER RING CLIP 16 KAC60003 FORK DAMPER ROD ASSEMBLY 17 KCCS0018 FORK MID VALVE SEAL 18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60052 FORK ADJUSTMENT SCREW TOP 21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE	12	KCC60064	FORK SPRING GUIDE
13 KCC63728 FORK SPRING .28 KG/MM (SINGLE) 14 HCNJ3824 3/8-24 JAM NUT CLASS 8 15 KCC60068 FORK SPRING GUIDE RETAINER RING CLIP 16 KAC60003 FORK DAMPER ROD ASSEMBLY 17 KCCS0018 FORK MID VALVE SEAL 18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60052 FORK ADJUSTMENT SCREW TOP 21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE	13	KCC63726	FORK SPRING .26 KG/MM (SINGLE)
14 HCNJ3824 3/8-24 JAM NUT CLASS 8 15 KCC60068 FORK SPRING GUIDE RETAINER RING CLIP 16 KAC60003 FORK DAMPER ROD ASSEMBLY 17 KCCS0018 FORK MID VALVE SEAL 18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60052 FORK ADJUSTMENT SCREW TOP 21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE		KCC63724	
15 KCC60068 FORK SPRING GUIDE RETAINER RING CLIP 16 KAC60003 FORK DAMPER ROD ASSEMBLY 17 KCCS0018 FORK MID VALVE SEAL 18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60052 FORK ADJUSTMENT SCREW TOP 21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE		KCC63728	
16 KAC60003 FORK DAMPER ROD ASSEMBLY 17 KCCS0018 FORK MID VALVE SEAL 18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60052 FORK ADJUSTMENT SCREW TOP 21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE		HCNJ3824	
17 KCCS0018 FORK MID VALVE SEAL 18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60052 FORK ADJUSTMENT SCREW TOP 21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE		KCC60068	FORK SPRING GUIDE RETAINER RING CLIP
18 HCNJ0601 M6 JAM NUT 19 BCKG0033 O-RING 2mm ID 20 KCC60052 FORK ADJUSTMENT SCREW TOP 21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE	16	KAC60003	FORK DAMPER ROD ASSEMBLY
19 BCKG0033 O-RING 2mm ID 20 KCC60052 FORK ADJUSTMENT SCREW TOP 21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE		KCCS0018	FORK MID VALVE SEAL
20 KCC60052 FORK ADJUSTMENT SCREW TOP 21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE	18		M6 JAM NUT
21 KCC60049 FORK REBOUND ADJUSTMENT SCREW PIN 22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE	19	BCKG0033	
22 KCC60042 FORK SPRING PERCH 23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE	20	KCC60052	
23 KCMU0013 FORK CARTRIDGE CAP W BUSHING 24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE	21	KCC60049	FORK REBOUND ADJUSTMENT SCREW PIN
24 KCKG0050 FORK TOP OUT SPRING 25 KCKG0019 FORK CARTRIDGE TUBE			
25 KCKG0019 FORK CARTRIDGE TUBE		KCMU0013	
		KCKG0050	
		KCKG0019	
26 KCMU0021 O-RING FORK BASE VALVE PISTON		KCMU0021	O-RING FORK BASE VALVE PISTON
27 ZCKGB017 O-RING FORK BOTTOM PLUG		ZCKGB017	O-RING FORK BOTTOM PLUG
28 KCC60069 FORK BOTTOM PLUG			
29 KCC60048 FORK ADJUSTMENT SCREW BOTTOM		KCC60048	FORK ADJUSTMENT SCREW BOTTOM
30 ZCMUOR03 O-RING			
31 KCC60065 FORK ADJUSTMENT SCREW BOTTOM RING CLIP			
32 KCC60036 FORK GUIDE RING TOP		KCC60036	
33 KAC60001 FORK LOWER BRAKE SIDE (NOT SOLD SEPARATELY)			
34 KCC60053 FORK SPRING PAD 37MM	34	KCC60053	FORK SPRING PAD 37MM

Parts - Fork - Leg Assembly - Non-Brake Side



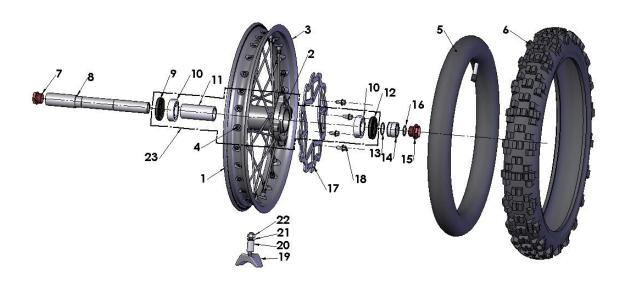
5== "		ork – Leg Assembly – Non-Brake Side
REF#	PART #	DESCRIPTION
1	HCBC0408	M4X8mm SOCKET HEAD CAP SCREW (BLEED SCREW)
2	ZCKG0001	GASKET BLEED SCREW
3	KCC60044R	FORK CAP
4	ZCC60011	O-RING FORK CAP
5	KCC60037	FORK OUTER TUBE
6	KCC60043	FORK OUTER WEAR RING CLIP
7	KCC60041	FORK GUIDE RING BOTTOM
8	KCC60047	FORK SEAL SPACER
9	KKC60039	FORK SEAL & SWIPER KIT – 37mm - CX65
10	KCC60066	FORK SEAL RETAINER RING CLIP
11	KCC60067	FORK BUMPER
12	KCC60064	FORK SPRING GUIDE
13	KCC63726	FORK SPRING .26 KG/MM (SINGLE)
13	KCC63724	FORK SPRING .24 KG/MM (SINGLE)
13	KCC63728	FORK SPRING .28 KG/MM (SINGLE)
14	HCNL3824	3/8-24 JAM NUT CLASS 8
15	KCC60068	FORK SPRING GUIDE RETAINER RING CLIP
16	KAC60003	FORK DAMPER ROD ASSEMBLY
17	KCCS0018	FORK MID VALVE SEAL
18	HCNJ0006	M6 JAM NUT
19	BCKG0033	O-RING 2mm ID
20	KCC60052	FORK ADJUSTMENT SCREW TOP
21	KCC60049	FORK REBOUND ADJUSTMENT SCREW PIN
22	KCC60042	FORK SPRING PERCH
23	KCMU0013	FORK CARTRIDGE CAP W BUSHING
24	KCKG0050	FORK TOP OUT SPRING
25	KCC60056	FORK CARTRIDGE TUBE – SMART
26	ZCKGB017	O-RING FORK BOTTOM PLUG
27	KCC60057	FORK BOTTOM PLUG – SHORT
28	KCC60036	FORK GUIDE RING TOP
29	KAC60002	FORK LOWER NON-BRAKE SIDE (NOT SOLD SEPARATELY)
30	KCC60053	FORK SPRING PAD 37MM

Parts – Frame



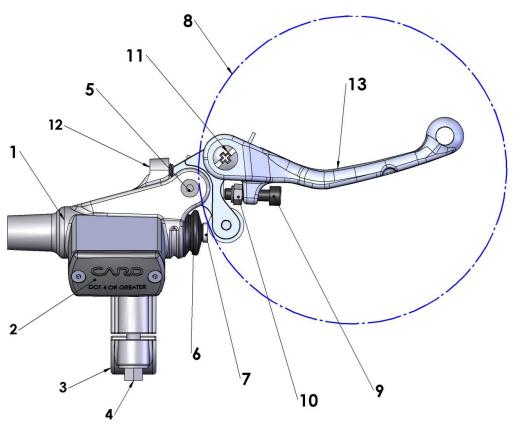
		Frame
REF#	PART#	DESCRIPTION
1	FAC62019G	FRAME WELDED ASSEMBLY
2	FAC60016	SUBFRAME CX65
3	HCBB0835	8X35MM BUTTON HEAD SCREW (2 REQ'D) – TOP MOUNT
4	HCFH0825	8X25MM FLAT HEAD CAP SCREW – (2 REQ'D) – BOTTOM MOUNT
5	FCC60020	CHAIN ROLLER WITH BOLT, BEARINGS & SEALS
6	BCDC0153	WASHER
7	TCMU0139	FOOTPEG SET ULTRA WIDE CX65 WITH SPRINGS
8	TCC60012	SPRING – FOOTPEG - ULTRA WIDE 07 (2 REQ'D)
9	FCMU0031	CLEVIS PIN - FOOTPEG
10	HCWF0801	8mm FLAT WASHER
11	HCCP0008	COTTER PIN 1/8 X 3/4
12	GCC60020	SWINGARM PIVOT BOLT - TI
13	HCWF1202	12MM FLAT WASHER
14	HCNL1201	12MM LOCKNUT
15	HCBH0865	8X65MM HEX HEAD – FRONT ENGINE MOUNTS (2 REQ'D)
16	HCWF0801	8MM FLAT WASHER – FRONT ENGINE MOUNTS (4 REQ'D)
17	HCNL0801	8MM LOCKNUT – FRONT ENGINE MOUNTS (2 REQ'D)
18	HCBH0807	8X20MM HEX HEAD – STEERING STOP (2 REQ'D)
19	HCNS0801	8MM NUT – STEERING STOP (2 REQ'D)
20	HCHA0003	6mm CLIP NUT
21	HCBF0616	M6 x 16 FLANGE HEAD BOLT
NOT SHOWN	MCMUZT28	ZIP TIE – REUSABLE

Parts – Front Wheel



		Front Wheel
REF#	PART#	DESCRIPTION
1	WAC6F018	WHEEL 14" FRONT WITH BEARINGS & SEALS (NO TIRE, OR TUBE), BLACK
2	WCC60122	HUB FOR CX65 – FRONT
3	WCMU1418BLK	14" RIM, BLACK
4	WKC6F018	SPOKE W ALUMINUM NIPPLE-FRONT WHEEL-65 (28 REQ'D)
5	WCDCTU14	TUBE – 60/100-14 FRONT
6	WCC6F014D32	TIRE - FRONT- 60/100-14 - DUNLOP MX3S
7	WCC60024	PLUG – AXLE - NON BRAKE SIDE (SMALER ONE)
8	WCC60021	AXLE FRONT STEEL
9	WCC60029	SEAL BEARING NON-BRAKE SIDE FRONT HUB
10	WCC60027	BEARING, WHEEL-SEALED (2 REQ'D)
11	WCC60030	SPACER WHEEL BEARING FRONT
12	WCC60026	SEAL BEARING BRAKE SIDE FRONT HUB
13	ZCMUOR22	O'RING – SPACER - FRONT AXLE
14	WCC60025	WHEEL SPACER FRONT LEFT
15	WCC60023	PLUG – AXLE - BRAKE SIDE (LARGER ONE)
16	ZCKGB017	O'RING – AXLE CAP
17	BCC60100	BRAKE ROTOR - FRONT
18	HCBF1612	M6X12mm FLANGE HEAD – LOW PROFILE (4 REQ'D)
19	WCMU0110	RIM LOCK – 1.4/1.6
20	WCDC0008	RIM LOCK SPACER
21	HCWF0801	8mm FLAT WASHER
22	HCNS0801	M8 NUT
23	WAC6F118	FRONT HUB ASSEMBLY WITH BEARINGS, SEALS, AND SPACER
TOOL	MCMUTL17	WRENCH – SPOKE

Parts – Front Brakes – Master Cylinder



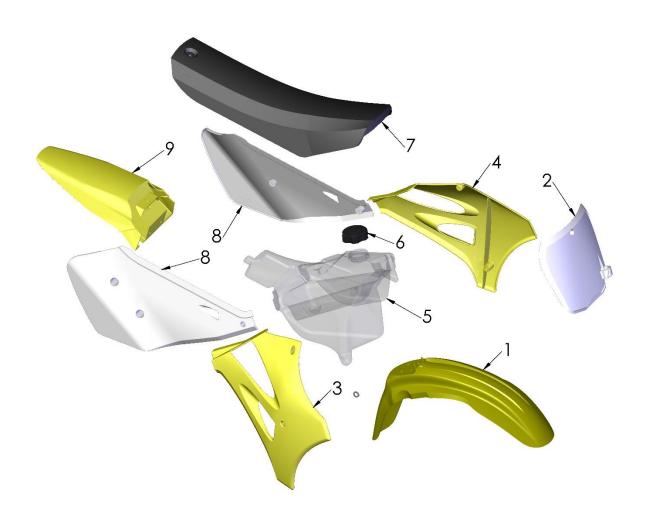
		Front Brakes
REF#	PART#	DESCRIPTION
	BAC60017	ASSY – FRONT BRAKE SYSTEM COMPLETE - FRONT CX65
1	BAC60016	ASSEMBLY - BRAKE MASTER CYLINDER (M/C) W LEVER ASSY
2	BKC60008	CAP & BLADDER KIT ZL150
		(CAP, BLADDER & (2) M3-0.5 X 6mm LONG PHILLIPS SCREW)
3	BCC60058	CLAMP – M/C ZL150
4	HCBF1625	M6-1.0 X 25mm LONG FLANGE HEAD BOLT
5	BCMU0060	PIVOT BOLT – PIVOT BLOCK TO MASTER CYLINDER HOUSING
		(BOLT & CLIP)
6	BCC60017	BOOT – PISTON END COVER
7	BKC60015	REBUILD KIT – MASTER CYLINDER ZL150
		(PISTON, SEALS, SPRING, CLIIP & RETAINING WASHER)
8	CKC60004	LEVER ASSEMBLY - CLUTCH / BRAKE - BRAKEAWAY ROLLER
		(LEVER ON PIVOT BLOCK W ROLLER & ADJUSTMENT SCREW W
		NUT)
9	HCBC0502	M5 X 20 SOCKET HEAD CAP SCREW - LEVER POSITION ADJUSTMENT
10	HCNL0501	5MM LOCKNUT
11	CKC60005	PIVOT BOLT KIT – LEVER TO PIVOT BLOCK
		(MALE AND FEMALE BOLTS)
12	HCSS0601	SET SCREW – PRESET
13	CCC60015	LEVER ONLY – CLUTCH OR BRAKE
ACCESSORY	BAMU0005	LEVER ASSEMBLY - SHORTY
NOT SHOWN	BCMU0116	BOOT – PIVOT COVER
NOT SHOWN	CCC60026	SPRING – LEVER RETURN
NOT SHOWN	CCC60025	SPACER – SPRING CENTERING
NOT SHOWN	BCC60054	LINE – FRONT CX65 ZL150

Parts – Front Brakes – Caliper



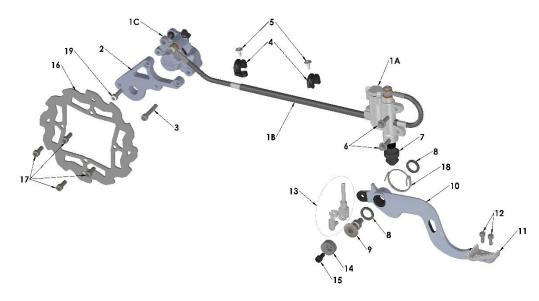
		Front Brakes
REF#	PART #	DESCRIPTION
1	BAC60008	ASSY COMPLETE – FRONT CX65 (M/C-LINE-CALIPER) ZL150
2	BAC60009	CALIPER ASSY – CX65 ZL150
3	BKC60003	CALIPER FASTENER KIT ZL150
		PAD PIN - ZL150
		CLIP - PIN ZL150
		2 - M6X32mm LONG ZL150
4	BKC60002	SEAL KIT – CALIPER ZL150
		1 - CALIPER CENTER SEAL ZL150
		4 - SEAL BRAKE PISTON ZL150
5	BCC60068	PISTON – CALIPER ZL150 (4 REQUIRED)
6	BCC60050	PAD SET ZL150
7	BCC60051	SPRING – PAD ZL150
8	BCC60033	BLEED SCREW & CAP KIT
NOT SHOWN	BCC60054	LINE FRONT CX65 ZL150

Parts – Plastic Bodywork & Seat



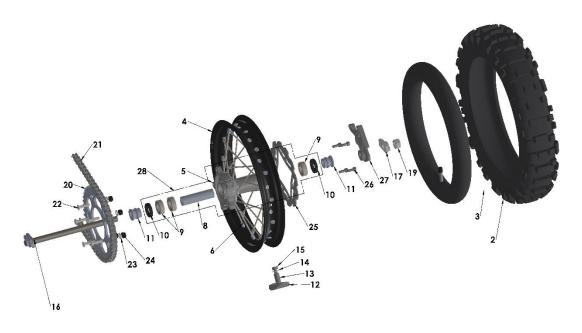
	T	Plastic Bodywork & Seat
REF#	PART#	DESCRIPTION
1	TCC60020FXX	FRONT FENDER – MEGA FLO YELLOW
1	TCC60020BLK	FRONT FENDER – BLACK
11	TCC60020WHT	FRONT FENDER – WHITE
1A	HCBF0616	FENDER BOLT, M6X16 FLANGE HEAD (4 REQ'D)
1B	TCC60021	SPACER – FRONT FENDER BOLT (4 REQ'D)
2	TCC60002W	NUMBER PLATE FRONT - WHITE - STANDARD
2	TCC60002B	NUMBER PLATE FRONT - BLACK
2	TCC60002	NUMBER PLATE FRONT - YELLOW
2A	HCBF0616	M6X16mm FLANGE HEAD BOLT – FRONT NUMBER PLATE MOUNT
3	TCC60023FXX	SHROUD RIGHT – MEGA FLO YELLOW
3A	HCSP0004	PLASCREW – SHROUD TO TANK (2 REQ'D)
4	TCC60022FXX	SHROUD LEFT – MEGA FLO YELLOW
4.0	T0000047	BODY PANEL WASHER 5mm (1 REQ'D) – MT SHROUD TO
4A	TCC60017	RADIATOR
4B	HCBC0516	M5X16mm SHCS (1 REQ'D) – MOUNT SHROUD TO RADIATOR
4C	HCCN0000	5mm EXTRUDED "U" NUT
4D	HCSP0004	PLASCREW – SHROUD TO TANK
5	TCC60024C	FUEL TANK - CLEAR (NO PETCOCK OR CAP)
5A	HCBC0503	M5X30mm SHCS – FRONT TANK MOUNTING
5B	TCC60027	SPACER – FRONT TANK MOUNTING
5C	TCC60029	SPACER – SEAT MOUNT
5D	HCFH0620	M6X20mm FLAT HEAD – FRONT SEAT MOUNT
5E	TCMU0151	PETCOCK
6	TCHA0002	CAP – FUEL TANK
6A	TCHA0003	HOSE – FUEL CAP
7	TAC60002	SEAT – CX65
7A	TCC60028	SEAT COVER REPLACEMENT
7B	HCBC0625	M6X25mm SOCKET HEAD CAP SCREW – SEAT HOLDING
7C	TCC60018	SPECIAL WASHER – SEAT HOLDING
8	TCC60005WHT	SIDE NUMBER PLATE – PAIR – WHITE – STANDARD
8	TCC60005BLK	SIDE NUMBER PLATE – PAIR – BLACK
8	TCC60005	SIDE NUMBER PLATE – PAIR – YELLOW
8A	HCBC0516	M5X16mm SOCKET HEAD CAP SCREW (3 REQ'D)
8B	HCBF0630	M6X30mm FLANGE HEAD BOLT – SILENCER (2 REQ'D)
8C	TCC60017	BODY PANEL WASHER 5mm (3 REQ'D)
8D	TCC60016	BODY PANEL WASHER 6mm (2 REQ'D)
9	TCC60007FXX	FENDER – REAR – WHITE – MEGA FLÓ YELLOW - STANDARD
9	TCC60007BLK	FENDER – REAR – BLACK
9	TCC60007WHT	FENDER – REAR – WHITE
9A	HCSP0004	PLASCREW – FENDER TO AIRBOX (2 REQ'D)
9B	HCBC0516	M5x16mm SOCKET HEAD CAP SCREW (2 REQ'D)
9C	HCWP0002	WASHER - BODY PANEL FLAT (2 REQ'D)
9D	HCHA0003	CLIP NUT – M6
	TCMU2020	GRAPHIC KIT
CCESSORY	TKC62019B	BODYWORK KIT – BLACK
CCESSORY	TKC62019W	BODYWORK KIT – WHITE
CCESSORY	TKC62021FXX	BODYWORK KIT – MEGA FLO YELLOW

Parts – Rear Brake



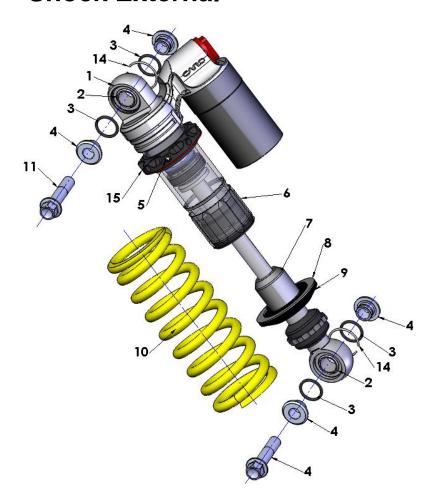
		Rear Brake System
REF#	PART#	DESCRIPTION
1	BAC60014	BRAKE ASSEMBLY REAR (MASTER CYLINER, LINE AND CALIPER)
1A	BAC60015	MASTER CYLINDER CX65 11MM FORMULA
1B	BCC60037	LINE REAR CX65
1C	BAMU0010	CALIPER CX65
2	BCC60093	BRACKET – CALIPER MOUNTING
3	HCBC0604	M6 x 35 SOCKET HEAD CAP SCREW
4	HCCC0005	HOSE GUIDE (2 REQUIRED)
5	HCPP0832	#8X1/2 SELF TAPING SCREW (2 REQUIRED)
6	HCBF0620	M6X20mm FLANGE HEX-8MM HEAD
7	BCMU0022	RUBBER CAP – BOTTOM OF MASTER CYLINDER
8	BCMU0501	SEAL-BRAKE PEDAL (2 REQUIRED)
9	BCMU0027	PIVOT BOLT – ALUMINUM BRAKE PEDAL
10	BCMU0023	BRAKE PEDAL WITH TOE PIECE
11	BCMU0023T	TOE PIECE – BRAKE PEDAL
12	HCBC0501	M5X 12mm SOCKET HEAD CAP SCREW
13	BCDC0004	PUSH ROD ASSEMBLY WITH CLEVIS - CX65
NOT SHOWN	BCDCBU01	BUSHING – BRAKE PEDAL
14	FCEX0018	ECCENTRIC – ADJUST
15	HCBC0612	M6X12mm SOCKET HEAD CAP SCREW
16	BCC60004	ROTOR REAR
17	HCBC0601	M6X16mm SCOCKET HEAD CAP SCREW (4 REQUIRED)
18	BCMUSP02	SPRING – REAR BRAKE PEDAL
19	HCBC0602	M6X20mm SCOCKET HEAD CAP SCREW
ACCESSORY	BKC60011	PAD SET CX65 SINTERED METAL W BOLT AND CLIP
ACCESSORY	BKMU0003	BLEED KIT (MULTIPLE SYRINGES, FITTINGS & HOSE)
ACCESSORY	BCMU0038	SPRING - BRAKE PAD RETURN
ACCESSORY	BKMU0006	PISTON & SEAL KIT – CARD - STAINLESS
ACCESSORY	BKMU0008	BLEED SCREW KIT – CARD
ACCESSORY	BCC60034	CAP ONLY BLEED SCREW CX65
ACCESSORY	BCKG0016	CAP & SEAL KIT – MASTER CYLINDER
ACCESSORY	BCKG0015	REBUILD KIT – MASTER CYLINDER
ACCESSORY	BKMU0007	BANJO BOLT AND WASHER KIT – CARD
ACCESSORY	BCC60045	SHARK FIN
TOOL	BKMU0003	BLEEDING KIT – FORMULA & CARD

Parts – Rear Wheel



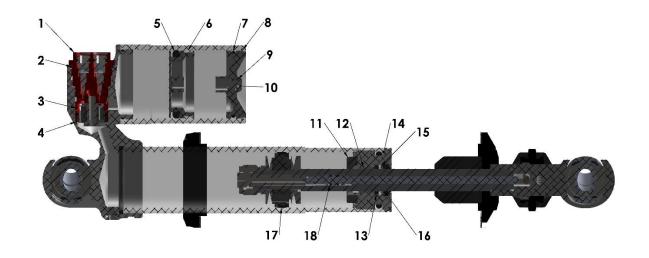
		Rear Wheel
REF#	PART #	DESCRIPTION
1	WAC6R018	WHEEL 12" REAR W BEARINGS, BLACK (NO TIRE, TUBE, ROTOR OR SPROCKET)
2	WCC6R012D32	TIRE - REAR - 80/100-12 - DUNLOP MX3S
3	WCDCTU12	TUBE – 275-80/100-12 REAR
4	WCMU1218BLK	12" RIM, BLACK
5	WCC60134	HUB REAR SEALED - BLACK
6	WKC6R018	SPOKE & ALUMINUM NIPPLE KIT – REAR WHEEL-65 (28 REQ'D)
8	WCC60037	SPACER – REAR WHEEL BEARING
9	WCMU0120	BEARING, WHEEL
10	WCC60035	SEAL – REAR HUB
11	WCC60036	SPACER – L&R REAR WHEEL
12	WCMU0110	RIM LOCK – 1.4/1.6
13	WCDC0008	RIM LOCK SPACER
14	HCWF0801	8mm FLAT WASHER
15	HCNS0801	8mm NUT
16	WCC60010	AXLE REAR CX65 - TI
17	GCC60010	CHAIN ADJUST BLOCK OFFSET
19	WCC60011	NUT – ALUMINUM ACORN
20	PCC618xx	SPROCKET – xx denotes number of teeth (37-53)
21	PCMU0116	CHAIN 420H 116 LINK CX65 14/48
22	HCSP0701	7mm SPROCKET BOLT (5 REQ'D)
23	HCWF0701	7mm FLAT WASHER (5 REQ'D)
24	HCNL0701	7mm LOCK NUT (5 REQ'D)
25	BCC60199	BRAKE ROTOR REAR
26	HCBC0601	M6X16mm SHCS (4 REQ'D)
27	BCC60093	BRACKET – CALIPER MOUNTING
28	WAC6R118	REAR HUB ASSEMBLY WITH BEARINGS, SEALS, AND SPACER
TOOL	MCMUTL17	WRENCH - SPOKE

Parts – Shock External



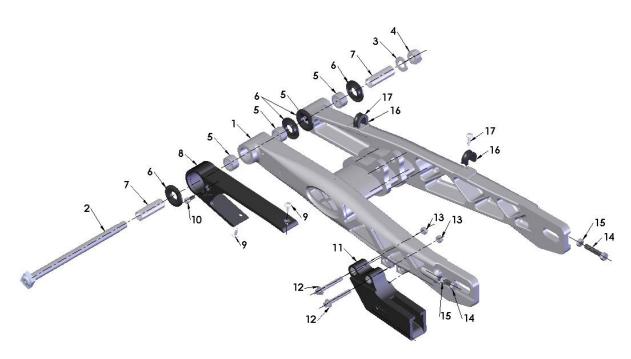
	Shock		
REF#	PART #	DESCRIPTION	
1	SAC62016	SHOCK ABSORBER – CX65	
2	SCMU0043	SHOCK – BEARING SPHERICAL SHOCK MOUNT-CARD (2 REQ'D)	
3	SCMU0039	O-RING – SHOCK - BUSHING – CARD (4 REQ'D)	
4	SCMU0042	SHOCK – MOUNT BUSHING – CARD (4 REQ'D)	
5	SCMU0058	SHOCK – WHITE NYLON TIP SETSCREW M6-1.0 - CARD	
6	SCMU0056	SHOCK – SLEEVE BLACK - CARD	
7	SCMU0100	BUMPER – TAPPERED - SHOCK	
8	SCMU0040	PAD – SPRING - CARD	
9	SCMU0054	PERCH – SPRING - CARD	
10	SCC60220P	SPRING EXTRA EXTRA LIGHT 220 LB/IN (38.5 N/mm) RED	
10	SCC60240P	SPRING EXTRA LIGHT 240 LB/IN (42N/mm) WHITE	
10	SCC60260PY	SPRING STANDARD 260 LB/IN (45.5 N/mm) YELLOW	
10	SCC60280PG	SPRING HEAVY 280 LB/IN (49 N/mm) GOLD	
10	SCC60300	SPRING HEAVY 300 LB/IN (52.5 N/mm) RED	
11	HCBF1040	M10 X 40 HEX HEAD BOLT	
12	HCBH1055	M10 X 55 HEX HEAD BOLT	
13	HCNL1001	10mm LOCKNUT-REGULAR	
14	SCMU0330	RING -SPERICAL BEARING RETAINING -CARD SHOCKS	
15	SCMU0120	PRELOAD ADJUSTER – CARD SHOCK	
ACCESSORY	SKC60002	REBUILD KIT – CARD SHOCK	

Parts - Shock - Internal



Shock				
REF#	PART#	DESCRIPTION		
1	SAMU0001	COMPRESSION ADJUSTER ASSEMBLY – COMPLETE		
2	ZCMUB020	O-RING – COMPRESSION ADJUSTER – OUTSIDE		
3	KCMU0021	O-RING – COMPRESSION ADJUSTER – PISTON SEAL		
4	ZCMUOR37	O-RING – COMPRESSION ADJUSTER – INSIDE		
5	SCMU0051	O-RING – IFP		
6	SCMU0052	IFP SEAL BAND		
7	SCMU0033	O-RING SHOCK BASE		
8	SCMU0050	RESERVOIR CAP RETAINER RING		
9	SCMU0035	O-RING CHARGE CAP		
10	HCBB0506	M5X6mm LONG BUTTON HEAD STAINLESS STEEL		
11	SCMU0044	BUMPER – SEAL HEAD		
12	SCMU0048	SHAFT BUSHING		
13	SCMU0046	X-RING SEAL – SHOCK		
14	SCMU0034	O-RING SEAL HEAD		
15	SCMU0047	SPACER – X-RING		
16	SCMU0045	DUST SEAL – SHOCK SHAFT		
17	SCC60014	PISTON BAND		
18	SCMU0059	O-RING REBOUND PIN		
19	SCC60013	CHECK VALVE NUT		
20	SCC60011	CHECK VALVE SHIM .10 X 17 X 6		
21	SCC60012	CHECK VALVE BOLT		
22	SCMU0029	O'RING - BODY & RESERVOIR SEAL TO BODY CAP		
	SCCM0001	SEAL HEAD – WITHOUT COMPONENTS		
	SKMU0002	SEAL HEAD - COMPLETE		
ACCESSORY	SKC60002	REBUILD KIT – CARD SHOCK		

Parts – Swingarm Assembly



Swingarm			
REF#	PART #	DESCRIPTION	
1	GKC60001	SWINGARM ASSY – (includes items 5 – 18)	
2	GCC60020	BOLT – SWINGARM PIVOT - TI	
3	HCWF1202	12mm WASHER – SWINGARM PIVOT	
4	HCNL1201	M12 LOCK NUT – SWINGARM PIVOT	
5	GCC60017	BEARING – SWINGARM PIVOT (4 REQ'D)	
6	GCC60018	SEAL / THRUST BEARING – SWINGARM PIVOT (4 REQ'D)	
7	GCC60019	TUBE – SWINGARM PIVOT (2 REQ'D)	
8	TCC60004	CHAIN SLIDER TOP FOR SWINGARM	
9	HCFH0516	M5 X 16mm FLAT HEAD SCREW (2 REQ'D FOR CHAIN SLIDER)	
10	HCBC0501	M5X12mm SHCS – CHAIN SLIDER MOUNT	
11	PCC60004	CHAIN GUIDE (BOTTOM) CX65	
12	HCBF0640	M6X40mm FLANGE HEAD BOLT (2 REQ'D)	
13	HCNL0601	M6 LOCK NUT (2 REQ'D)	
14	HCBH0701	M7X35mm HEX HEAD FULL THREAD (2 REQ'D)	
15	HCNS0701	M7 NUT (2 REQ'D)	
16	HCCC0005	GUIDE - BRAKE HOSE (2 REQ'D)	
17	HCPP0834	#8X3/4 SELF TAPING SCREW (2 REQ'D)	
18	GCMU0012	FITTING – GREASE (2 REQ'D)	

Service

Trained technicians with precision gauging and proper assembly fixtures carefully assemble all Cobra engines to specific tolerances. If you feel you have the skills, and the appropriate tools, to perform the following service tasks please follow the instructions closely. The part numbers are listed throughout to help you when ordering parts from your local Cobra dealer.

If you don't feel comfortable with the service work, log on to www.cobramoto.com to find a Cobra dealer or Call 517-437-9100.

Engine Service

One method for determining whether the top end of your engine needs rebuilt is to perform a WOT (Wide Open Throttle) kicking compression test. Before performing the procedure please read the caution notes below.

CAUTION:

- There appears to be a wide range of variability in reading compression gauges across the country.
- The head volume of this Cobra Motorcycle is very small and so requires many kicks, around 20, before you establish the most accurate reading possible.
- Because of the geometry of the spark plug used in this Cobra Motorcycle, the adapter used with your compression tester must have a similar volume protruding into the combustion chamber to establish an accurate value.
- Length of hose on the compression tester will affect the reading. The shorter the hose length the more accurate your reading will be.

Because of these difficulties in measuring an *absolute* compression value, a useful *relative* value can be achieved by testing your bike's compression with your own particular gauge after a new top end or when the bike is new so that you know what your particular gauge reads on a 'fresh' engine. When it has dropped to 90% of its original value the engine will be down on power and would benefit from a rebuild. When it's dropped to 80% it really needs rebuilt! Using the table below will help you determine monitor the condition of your top end.

	Engine is Fresh Measured Value	Engine Down on Power Measured Value * 0.9	Engine NEEDS Rebuilt Measured Value * 0.8
Example	110 psi	110 psi * 0.9 = 99 psi	110 psi * 0.8 = 88 psi
Your Values			

Procedure for Compression Testing

- 1. Shut off the fuel petcock.
- 2. Install the compression gauge into the spark plug hole.
- 3. Hold the throttle to wide open, and kick repeatedly (approximately 20 times) or until the gauge reading does not increase in value with each kick.

Base Gasket Selection

Tools required

- 17mm wrench
- 1mm flexible solder material
- measurement calipers

When rebuilding the 'top end' of your Cobra motorcycle, care must be taken to ensure the proper squish clearance. Squish clearance is defined as the minimum distance between cylinder head and piston at TDC, and there are negative effects of either having too much or too little clearance. Since parts like the crank, connecting rod, cylinder head, piston, and crankcases all have varying

tolerances, Cobra offers several different base gaskets thicknesses to ensure that you can always set the squish clearance of your engine to factory specifications.

For base gasket replacement use the code (see figure 21 for location) along with the table on the following page reorder the correct thickness gasket.

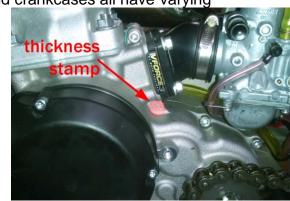


Figure 21

Supplied Base	Gasket Thickness	Cobra #
mm	inch	
0.2	0.010	ZCC60302
0.3	0.0125	ZCC60303
0.4	0.015	ZCC60304
0.5	0.020	ZCC60305
0.6	0.025	ZCC60306
0.8	0.031	ZCC60308

NOTE: Tolerances will affect the actual gasket thicknesses.

If during the course of the maintenance more parts than the base gasket is changed, the squish clearance should be measured, and possibly a different base gasket will be required.

The easiest way to measure squish clearance is with 1mm to 1.5mm thick flexible solder wire (available through most popular electronic stores). The process is as follows:

- Assemble the top end of the engine with either; 1) the crankcase stamp recommended base gasket or, 2) if assembling with a new set of cases assemble with a 0.4mm (0.015") base gasket, and torque the head nuts to the proper torque specifications leaving off the spark plug and ignition cover (piston rings can be left off to ease assembly).
- Carefully insert the solder wire though the spark plug hole, into the cylinder far enough such that the tip of the wire touches the left or right side cylinder wall (not the front or back as the piston will rock more and give incorrect measurement).
- Hold the wire at this position and rotate the crankshaft, by the flywheel nut (or kick lever) three revolutions to 'smush' the solder wire.

CAUTION:

If you rotate the flywheel nut in a counterclockwise direction, there is a risk of loosening the nut.

- Pull out the wire and measure the solder thickness at the thinnest location near its tip accurately with the thin tips of calipers.
- Adjust base gasket thickness as necessary to get the desired value.

Upon completion, your final assembly squish clearance should agree with the chart below



Power Valve

Operation Verification

To verify that the valve operating correctly perform the following steps

- 1. Remove the small button head cap screw from the solenoid cover with a 3mm hex key (allen wrench or ball driver)
- 2. Stick the 3mm hex key or other suitable small diameter tool into the hole and verify that the valve travels outward at approximately 8200 RPM by

starting the bike and revving the engine while lightly holding the tool in the hole.

Disassemble to remove cylinder

Disassembly

- 3. Disconnect the electrical connector.
- 4. Disconnect the vent hose.
- 5. Remove front fender (optional)
- 6. Remove solenoid clamp and retaining spring
- 7. Loosen hose clamp on solenoids rubber boot
- 8. Remove solenoid assembly through frame
- 9. Remove the two socket head cap screws holding the PV cover to the engine.
- 10. Rotate the cover assembly upward and then slide it upward.
- 11. Remove the return spring.
- 12. Remove the valve and plunger assembly

Clean inspect and assembly

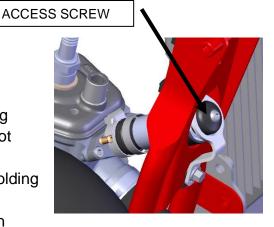
- 1. Clean the components with mineral spirits.
- 2. The inside of the solenoid can also be cleaned with mineral spirits.
- 3. Inspect
 - a. The link for cracks.
 - b. excessive slop in the link joints
 - c. The valve for cracks.
 - d. The boot for cracks.
 - e. O-ring for signs of compromise
 - f. The electrical cable for exposed wires or breaks in the protective covering.

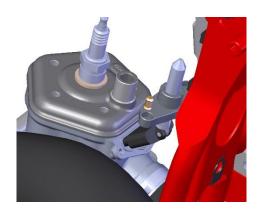
Installation

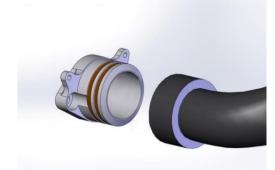
- 1. Apply some premix oil to the outside of the valve and install in the cylinder.
- 2. Hold upward the plunger and slide the valve return spring over it.
- 3. While still holding upward the plunger and spring slide down over them the solenoid assmebly
- 4. Install the cover with the two screws.
- 5. Install the vent hose.

Solenoid Troubleshooting:

- 21 ohm
- 15 volts above ~8200 RPM







Exhaust

The pipe was designed and produced by HGS. The exhaust flange to pipe sealing arrangements is as shown. This seals better and remains in position better during installation. There are two ZCMOTE11 O-rings.

Fuel & Air System

Carburetor:

Tools recommended for carburetor service:

- Small flat head screwdriver
- WD-40
- 6mm socket

Your Cobra is equipped with an adjustable carburetor. Some fine-tuning may be needed according to weather condition and altitude. Proper jetting is *very* important for engine performance and engine life. Serious damage to the engine can occur if not properly adjusted.

IDLE ADJUSTMENT:

On each side of the carburetor, there are two adjustment screws. The right side screw with the knurled head is the idle adjustment screw. To raise the idle, turn the screw in clockwise (in 1/4 turn increments) and rev the engine after each adjustment. To lower the idle, turn the screw counter-clockwise.

TOP END JETTING:

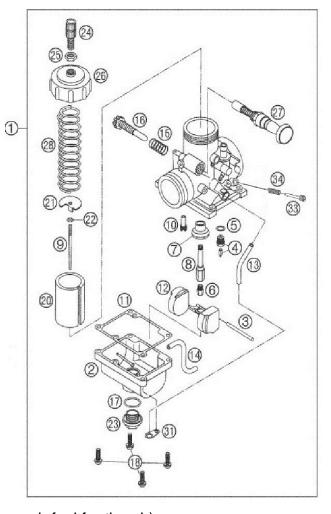
Indications that the engine is running too rich (too much fuel for the air) are:

- Engine not revving out or blubbering at high RPMs.
- Engine will not 'clean out'
- Wet or black spark plug

NOTE: Before changing jetting be sure that the air filter is properly cleaned and has the usual amount of air filter oil. An overly dirty air filter can cause the engine to run rich.

If the engine is running rich on the top end it should be leaned out. Leaning it out can be done by:

- 1. Changing the main jet to a smaller number.
- 2. Raising the needle clip (this lowers the jet needle) one notch at a time on the slide.



Indications that the engine is running too lean are:

- Engine cutting out on top end.
- Engine overheating and ultimately seizure.
- White spark plug

CAUTION:

It is much safer to operate the engine slightly rich as opposed to slightly lean. This is because an overly rich engine will just run poorly while an overly lean engine will seize, potentially causing an expensive top end rebuild and a DNF.

To richen the carburetor:

- 1. Change the main jet one number at a time (larger).
- 2. Lower the needle clip (raising the jet needle) one notch at a time until the engine starts to blubber on the top end, then move the clip back up one notch or until you get the blubber out.

FUEL MIXTURE SCREW

The left side brass screw is a fuel mixture (air) screw. This screw will also richen and lean your engine more on the bottom and mid-range. In warmer conditions, turn the screw out. In colder conditions, turn the screw in. Be sure to keep the carburetor very clean and make sure you don't have water or dirt in the carburetor bowl. Use automotive carburetor cleaner or WD-40 to clean the carburetor inside and out. Turning the screw in richens the mixture at partial throttle openings. Turing the screw out, leans it.

Cleaning the carburetor:

A WARNING

Clean the carburetor in a well-ventilated area, and take care that there is no spark or flame anywhere near the working area; this includes any appliance with a pilot light. Because of the danger of highly flammable liquids, do not use gasoline or low flash-point solvent to clean the carburetor.

- 1. Make sure the fuel is shut off.
- 2. Remove the carburetor.
- 3. Drain the fuel from the carburetor.
- 4. Disassemble the carburetor.
- 5. Immerse all the metal parts in a carburetor cleaning solution.
- 6. After the parts are cleaned, dry them with compressed air.
- 7. Blow out the fuel passages with compressed air.
- 8. Assemble the carburetor
- 9. Install the carburetor onto the motorcycle.

Rear Shock

The rear shock is fully serviceable but it is recommended that only trained professionals should service your shock. Contact Cobra or another qualified specialist for questions and service of your CX65 shock.

Brakes

Proper Brake adjustment must have a slight amount of freeplay from the pedal/lever to the master cylinder piston. Without freeplay, it is difficult to ensure that piston is not blocking the hydraulic return path which allows fluid to return to the master cylinder upon release of the pedal/lever. If the system does not allow sufficient return flow, the brake system will lock up during operation as the master cylinder pumps fluid to the caliper that is unable to return to the master cylinder as the lever is released.

Rear Brakes

Rear brake bleeding is a 5-step process.

- Remove the reservoir cap on the master cylinder and top of with DOT 4 or 5.1 fluid. During all these steps, make sure you monitor the fluid level and 'top off' when necessary.
- 2. Adjust the brake plunger for free play. There must be at least some free play between the adjustable plunger and the master cylinder piston. Push the pedal up and down to feel for free play and adjust if necessary. It may be helpful to remove the rubber boot. Improper adjustment will not allow fluid from the caliper to return to the master cylinder up release of the brake pedal.
- Pressure bleed the system. Push down once on the brake pedal, solidly and completely, and open and close the caliper bleed, before releasing the pedal. Repeat this step at least 5 times looking for bubbles. Typically, bubbles are seen on the 4th or 5th attempt.

If bubbles are seen repeat until no bubbles appear.

4. Minimize the caliper volume. Using channel locking pliers, or similar, squeeze the caliper as shown to push the piston back as far as possible into the caliper. While squeezing, open and close the caliper bleeder looking for bubbles. Repeat at least three times looking for bubbles. If bubbles are seen repeat until not bubbles appear.



5. Overfill the master cylinder to minimize the amount of air in the reservoir before reinstalling the cap. Yes, you will lose some fluid when the cap goes on. Have the rubber in the cap pushed up to minimize its volume.

Front Brakes

Bleeding of the front brakes is similar but step 4 requires the use of a screwdriver to force the pads & pistons back into the caliper.

See the maintenance section at the beginning of this manual for proper brake lever adjustment.

If the adjustment is set properly and the brakes have been properly bled and the system is still not responsive enough, perform the steps below to 'exercise' the pistons and seals.

- 1. Remove the caliper from the mount.
- 2. Remove the brake pads from the caliper (remove the clip before removing the bolt).
- 3. Pump the front brake lever to make the pistons move toward the center of the caliper.
 - a. Likely if the bike has much time, the pistons just move back and forth and do not pump out as they should.
 - b. Our goal here is to free each piston up so that they will pump out
- 4. Keep pumping the lever until one piston travels ~ 1/8" (3mm) out.
- 5. Push it back in & repeat several times.
- 6. Once you have one piston moving freely, clamp, block, or hold it in place so that it forces other pistons to work.
- 7. After you have all 4 pistons moving easily, reinstall the brake pads and spring.
- 8. Before installing the caliper back onto the fork leg and wheel, pump the brakes so that the pads will need spread slightly to install over the rotor.
- 9. Spread the pads just enough so that the caliper will fit over the rotor (If you spread them too far they may not pump up properly).

Front Wheel

Assembly

- Put the wheel in place and install the axle and caps. Torque the caps to 45 Nm (33 ft-lb)
- Place the bike on the ground and 'exercise' the suspension a couple times while applying the front brakes.
- Tighten the four axle pinch bolts to 12 Nm (106 in-lb)

Ignition

To verify if the charging coils for the ignition are good use an ohm meter and two fine point leads (paper clips will work) and measure the resistance across the blue and white wires in the six pin stator connector. The resistance value should be $5 \Omega \pm .3 \Omega$.

To verify the coil with an ohm meter.

- 1. Test for resistance from the metal in the cap to the coil frame. It should be $\sim 10~k\Omega$. If not, there may be a broken wire.
- 2. Test from either of the leads to the connector to the frame ground. It should be infinite. If not, a wire may have shorted to ground.
- 3. Test the resistance across both leads in the connector should be near 0 Ω . If not, there may be a short or broken wire.

Tuning

Gearing

Front Sprocket		Rear Sprocket	Gear Ratio		
		14		42	3.00
			15	45	3.00
			15	46	3.07
		14		43	3.07
	13			40	3.08
12				37	3.08
			15	47	3.13
		14		44	3.14
	13			41	3.15
12				38	3.17
			15	48	3.20
		14		45	3.21
	13			42	3.23
12				39	3.25
			15	49	3.27
		14		46	3.29
	13			43	3.31
12				40	3.33
			15	50	3.33
		14		47	3.36
	13			44	3.38
			15	51	3.40
12				41	3.42
		14		48	3.43
	13			45	3.46
			15	52	3.47
12				42	3.50
		14		49	3.50
			15	53	3.53
	13			46	3.54
		14		50	3.57
12				43	3.58
			15	54	3.60
	13			47	3.62
		14		51	3.64
12				44	3.67
			15	55	3.67

Suspension

Adjustment:

- 1. Front forks
 - 1.1. Fork oil
 - 1.1.1. Oil type
 - 1.1.1.1. Heavier weight oil more damping slower responding
 - 1.1.1.2. Lighter weight oil less damping quicker responding
 - 1.1.2. Oil quantity / level
 - 1.1.2.1. Greater quantity / higher level greater bottoming resistance, stiffer near the end of the travel.
 - 1.1.2.2. Smaller quantity / lower level less bottoming resistance, less stiff near the end of the travel.
 - 1.2. Fork spring
 - 1.2.1. Stiffer spring (higher spring rate) stiffer throughout the travel.
 - 1.2.2. Less stiff spring (lower spring rate) less stiff throughout the travel.
 - 1.3. Gas pressure always bleed off any pressure.
 - 1.4. Fork height
 - 1.4.1. Rise in clamps for quicker turning.
 - 1.4.2. Lower in clamps for improved straight line stability.
- 2. Rear shock
 - 2.1. Preload adjustment
 - 2.1.1. More preload (greater distance) less race sag.
 - 2.1.2. Less preload (smaller distance) more race sag.
 - 2.2. Shock spring
 - 2.2.1. Stiffer spring stiffer throughout the travel.
 - 2.2.2. Less stiff spring less stiff throughout the travel.
 - 2.3. Compression damping
 - 2.3.1. Harder (more damping, slower) adds resistance to the suspension motion when the suspension is compressing.
 - 2.3.2. Softer (less damping, quicker) reduces resistance to the suspension motion when the suspension is compressing.
 - 2.4. Rebound damping
 - 2.4.1. Harder (more damping, slower) adds resistance to the suspension motion when the suspension is returning to full length.
 - 2.4.2. Softer (less damping, quicker) reduces resistance to the suspension motion when the suspension is returning to full length

Front Fork Operation

The front suspension on the CX65 works under the principals of hydraulic damping, and it features full adjustability to help tune the fork to meet each rider's needs. The CARD fork contains MXT 'Smart Leg' technology that provides very progressive operation; allowing a small bike to perform well on track surfaces ripped up by larger machines.

The key to Smart Leg technology is to understand that each leg has a different role. The brake side leg features a conventional open cartridge. This cartridge

handles both standard compression and rebound damping duties. Rebound damping is adjustable on the fork cap, and compression damping is adjusted at the bottom of the fork. The other leg (the Smart Leg) has no rebound damping, and it contains both a speed sensitive compression damping mechanism as well as a position sensitive one. This design allows for a firm low speed response, controlling rapid chassis pitch, which promotes stability and control. The fork produces significantly less mid and high-speed compression until it travels into the progressive / speed sensitive portion of the smart leg. The speed sensitive compression component is adjustable at the top of the fork.

The combination of the Smart Leg and the conventional leg allows the fork to be very supple throughout all low amplitude operation and yet take punishing hits; producing a progressively increasing damping rate that slows the forks movement as it approaches full bottom. Therefore, the Smart Leg also acts as a hydraulic bottoming control device. Finally, the large degree of adjustability in both legs allows the fork to be tuned to meet each rider's size, ability, and type of riding they do (motocross, off-road, flat track, etc).

Fork Damping Adjustments

Tools required

Small flat blade screwdriver



The speed at which the fork rebounds can be adjusted at the top of the conventional leg. Turning the adjustment screw clockwise slows the rate at which the fork extends after being compressed, and likewise, turning the screw counter-clockwise returns the leg to its extended position faster. As shown in the figure, 'S' (slower) and 'F' (faster) are etched into the cap as an adjustment guide.

REBOUND ADJUSTMENT

At the base of the conventional leg is adjustment screw that controls the compression damping. Turning this clockwise increases damping and counter-clockwise will decrease it. illustrated by the "HARD" and the figure at the right.



another amount of screw turning it This is "SOFT" in



The Smart Leg cap is labeled "Speed Sensitive Bottoming Control", and this adjuster provides a range of control over how progressive the fork feels. Turning the screw clockwise increases the fork's resistance to bottoming, while turning the screw counter-clockwise decreases it. On the track, this effect will be felt on sections where the fork is forced to move very quickly such as on harsh landings or when traversing sharp edged bumps.

Rear Shock Adjustments

Always start with standard settings and make damping changes in no more than two click increments and only make one change at a time.

Symptom	Action
Rear end feels stiff on small bumps	Softer Low Speed Compression Damping
Rear end 'sways' on straights	Harder Low Speed Compression Damping
Bike tends to jump 'rear end high'	Harder High Speed Compression
Bike tends to jump 'rear end low'	Softer High Speed Compression
Frequent rear end bottoming	Harder Compression Damping
Bottoms after end of continuous bumps	Softer rebound damping
Rear end 'kicks' over square edge	1) Harder rebound, 2) Softer Low and High
bumps	Speed Compression
Rear end feels stiff under acceleration	Softer Rebound and/or Stiffer Low Speed
bumps.	Compression Damping

Proactive Suspension Adjustments

Once you have the suspension adjusted for decent overall feel, you can make proactive adjustments when faced with different racing conditions.

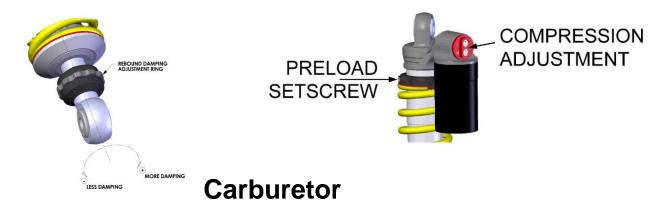
Situation	Actions
Sand track	Lower the rear end (increase race sag).
Sand track	Stiffer compression and rebound damping.
Long fast track	Lower the forks in the clamps by 3 mm.
Tight slow track	Raise the forks in the clamps by 3 mm.
Mud track	Lower the bike if the rider has difficulties touching the ground.

Shock preload

Loosen the set screw and turn the spring perch in full turn increments to get the desired sag settings.

NOTE: Always leave the spring perch rotated in such position so that the set screw is easily accessible.

Shock Damping



Although your Cobra is sent from the factory with the carburetor jetted for optimal performance, you may find it necessary to adjustment your particular jetting due to current weather conditions, altitude, fuel variations, and/or engine modifications.

CAUTION:

Proper jetting is very important for engine performance and engine life. Symptoms of improper jetting are listed below.

- Symptoms of incorrect oil or oil / fuel ratio
 - Poor acceleration
 - o Misfire at low engine speeds
 - Excessive smoke
 - Spark plug fouling
 - o Excessive black oil dripping from exhaust system
- Symptoms of too rich a fuel mixture
 - Poor acceleration
 - Engine will not 'rev' out, blubbers on top
 - Misfire at low engine speeds
 - Excessive smoke
 - Spark plug fouling
 - Wet, black, or overly dark spark plug (when removed for inspection)
- Symptoms of too lean a fuel mixture
 - Pinging or rattling
 - o Erratic acceleration
 - Same actions as running out of fuel
 - High engine temperature
 - White spark plug (when removed for inspection)

NOTE: When inspecting the spark plug to evaluate jetting, a properly jetted machine will produce a spark plug that is dry and light tan in color.

Environmental and altitude related mixture adjustments				
Condition	Mixture will be	Required adjustment		
Cold air	Leaner	Richer		
Warm air	Richer	Leaner		
Dry air	Leaner	Richer		
Very humid air	Richer	Leaner		
Low altitude	Standard	None		
High altitude	Richer	Leaner		
Low barometric pressure	Richer	Leaner		
High barometric pressure	Leaner	Richer		

NOTE: Before making any carburetor jetting changes verify that:

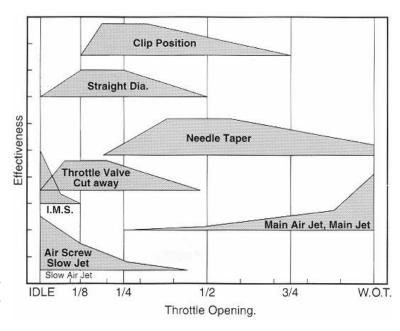
- You are using the proper fuel and oil
- The fuel is fresh and uncontaminated
- The oil and fuel have been mixed in the proper ratio
- The carburetor is clean (no plugged jets)
- o The air filter is properly clean and oiled
- The float height is within proper specification (proper measuring technique is described later in this section)

NOTE: Perform all jetting changes on a motorcycle that has been warmed up to proper operating temperature.

The carburetor on your Cobra motorcycle is quite adjustable. Figure 49 shows its range of adjustment and in particular what adjustable component affects what range of operation (specifically throttle position).

FUEL SCREW ADJUSTMENT: Adjust for throttle response

The air adjustment screw is located on the left side of the carburetor. It requires the use of a small flat blade screw driver for adjustment. After adjusting for proper throttle response, use the idle screw to adjust the desired idle speed.



NOTE: If the air screw requires more than 3 turns out, replace the pilot jet for one that is one size leaner (smaller number) then readjust the fuel screw.

IDLE ADJUSTMENT:

Adjust for desired idle speed

The idle speed screw is located on the right side of the carburetor. It is hidden behind the exhaust stinger pipe and is barely reachable with a screwdriver. To raise the idle, turn the screw in, clockwise, (in 1/4 turn increments) and rev the engine after each adjustment. To lower the idle, turn the screw counter-clockwise.

TOP END JETTING:

Adjust for clean full throttle acceleration

Jet your top end (main jet) based on the acceleration of your Cobra Motorcycle on the longest straight at the track. Observe any of the lean or rich symptoms (spark plug appearance and bike performance) listed above and change your jetting accordingly.

PART THROTTLE

Adjust for desired acceleration

Using an area of the track that allows the rider to operate at mid throttle, transition (accelerate, or 'roll on') from closed, or mostly closed throttle, to a larger throttle opening. Observe the rich and lean symptoms listed above. Adjust the jet needle position by moving the clip from its current position (move the clip higher on the needle to make the bike run leaner, or move the clip lower on the needle to make the bike run richer) to one higher or lower.

Troubleshooting

1) Engine operates erratically

- a) Carburetor top is installed backwards
- b) The carburetor slide indexing pin is missing
- c) A carburetor vent elbow is plugged or has fallen out
- d) Faulty stator
- e) An air leak
 - i) Base gasket
 - ii) Intake / reed gaskets
 - iii) Crank seals
 - iv) Crank case gasket

2) Engine is down on power

- a) Jetting is incorrect
- b) Silencer needs repacked
- c) Exhaust pipe
 - i) Has excess carbon buildup
 - ii) Has large dent in it
- d) Compression is low
 - i) Piston
 - ii) Rings
- e) Reeds are damaged

- f) Ignition timing is incorrect
- g) Stator needs replaced

3) Engine is excessively loud

a) Silencer needs repacking

4) Engine 'blubbers' at high RPMs

- a) Jetting too rich
- b) Stator needs replaced

5) Engine won't start

- a) Fuel
 - i) None in tank
 - ii) Is sour or bad
- b) Carburetor is dirty
- c) Ignition
 - i) Spark plug fouled
 - ii) Spark plug cap off
 - iii) Engine Shut-off 'kill' switch is shorted
 - iv) Bad electrical ground
 - v) Stator winding damaged
- d) Exhaust is plugged with object of flooded fuel
- e) Engine is flooded
- f) Cracked, broken, or jammed reed pedal
- g) Excessive piston or cylinder wear
- h) Clutch bolt or shoe dragging on basket (drum).

6) Engine won't idle

- a) Idle knob needs adjusted
- b) Carburetor jets are dirty
- c) Choke is stuck on
- d) Air leak