



Issue 4
Volume 2

May 2010

The Official Newsletter of Steel Horses Cruising Motorcycles Social Club Inc

The Steel Horse

Inside this issue

GM's May Report

GM's Report	1
Who's who	2
Postal address	2
Other Roles	2
Club Objectives	2
Membership	2
Monthly Meetings	2
Club Merchandise	2
Internet presence	2
Disclaimer	2
Ynot's Blurb	3
Member's Birthdays	3
VIP dates	3
Treasurer's Report	4
Minutes of Meeting	5
Coordinator's Report	6
Ride Reports	7
Event Calendar	8
M'cycles History—pt 4	11
Merchandise for sale	12
Patch & Insignia	12

Not much to report this month.

However I would like to talk about the Monthly meetings if I can have your attention for a moment.

Our meetings are getting a good turn up and discussions are very robust and everyone participates. This participation should not stop, however I need to raise an issue that has been a growing concern for some time - for me at least.

It is very tough sitting at the top table and trying to conduct a meeting that needs to cover some important discussions WHEN everyone is talking at the same time. In fact a number of us tend to continue to talk loudly until they are heard despite a number of others doing the same thing. This creates a lot of noise, extends the meeting time and frustrates the shit out of me and I suspect a number of others.

From next meeting I ask that we show a bit of restraint and acknowledge the effort the people on the Management Committee are making to get through an agenda and hold our tongues until recognized by the President or whoever is chairing the meeting and then speak.

Try to talk about the subject that is being discussed not something totally different and we may be able to get the meeting completed efficiently and to everyone's satisfaction.

Ynot always asks for agenda items prior to the meeting and this is also the opportunity to get something on the list for discussion.

If anyone has something else to raise there is always general business at the end of the meeting to do it.

I do not want open conversation killed off, so to speak, but PLEASE take a breath and wait your turn. You will get one.

We do have some By-Laws that cover this as well and I am fairly sure they line up with what I have just written

See Ya on The next one

Sarge

Deadline
2nd Tuesday of every
month

Who's who

Management Committee

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Email: sarge44@bigpond.net.au

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Riders' Delegate—Rowdy

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Ride Captain (South) - Yogi

See Event Calendar for details

Ride Captain (Central) - Sarge

See Event Calendar for details

Ride Captain (West) -

Sam / Cosmo

See Event Calendar for details

Webmaster—Debbil

Phone: 07 3343 3283
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Club objectives

The objects of the club are to encourage members to regularly meet, ride, and join together for social enjoyment

Membership

Membership is open to Riders and Pillions of Cruiser and Tourer motorcycles, as well as Social members.

Currently, the annual membership subscription is \$36 for Riders, \$24 for Pillions, and \$12 for Social Members.

There is also a once only joining fee on top of the annual membership fee. This covers the cost of Patch, Insignia, and other Club costs.

Currently, the joining fee is \$30 for Riders and Pillions, and either \$20 or \$30 for Social Members depending on whether they elect to wear a Badge or a Vest.

Once the Management Committee have completed the By-Laws you will be able to purchase a booklet of the Rules and By-laws at cost.

Monthly Meetings

Steel Horses Cruising Motorcycles Social Club Inc meets every 3rd Tuesday at Broadway Hotel, Woolloongabba, Brisbane at 7.30 pm. The Broadway Hotel is at the intersection of Logan Rd, Wellington Rd, and Balaclava St, Woolloongabba.

Club Merchandise

Please contact the **Merchandiser** (see **Other Roles** to the left) if you are interested in **Steel Horses Cruising Motorcycles Social Club Inc** merchandise . See the last page for NEW merchandise.

Internet presence

THE CLUB WEBSITE IS:

steelhorsesinc.com

(steel horses inc dot com)

Disclaimer

The opinions expressed in this newsletter are personal opinions and are not necessarily those held by SHCMSC Inc.

Ynot's Blurb—May 2010

Hi all,

We are now encountering the ideal motorcycling weather we have become accustomed to in S.E. QLD. The last couple of rides I have been on, the weather, route and company have combined to produce a magnificent experience. If you didn't attend them, you have missed some top quality rides. I know we get caught up with our work responsibilities and social obligations, but sometimes we need to also satisfy our inner needs and have fun. I hope the club helps to provide that balance in our lives and assists us to retain our sanity.

Our events are consistently well attended by members, and we have a regular attendance of visitors at rides and meetings. This is very encouraging as it is the most accurate indicator that the club is doing something right. The committee is always receptive to suggestions for new rides, social events and improvements to the way we do things. Please continue to offer your suggestions at meetings, to the committee and to the Ride Captains. This month two ride suggestions were received from Drastic and Steiny and will be discussed further at the May meeting.

During the May meeting there will be a special resolution proposed by Boots to change the Rules. The resolution has previously been circulated to all members, so please come to the meeting prepared to discuss it and cast your vote. To be accepted, the resolution will require a 75% majority of financial members present at the meeting to vote in favour of it.

The introduction of three new by laws will be announced at the May meeting. As incorrectly written in my April Blurb these do not require a vote from the membership. Approval of the Management Committee only is required. (Rule 42, (1))

The Marquee has finally been erected and looks very impressive. I'm sure you will read all about the superior skills exhibited by the volunteer erectors in Yogi's ride report. When combined with the banner, which has also been received, the club will have a very professional presence wherever we display them. Many thanks to Sparra and Ginger for providing the venue and catering for the marquee erection event, and the shed for its future storage.

Probably the first event to display our marquee and banner will be at the Laverda Concourse on 18 July 2010. I have secured our spot with the organisers. We must get there early to claim our position. Last year I was there at 7.00 a.m., and had to make do with the last available position. Big Al from Laverda said that some exhibitors set up the night before and camp out to secure their spot. We may want to consider doing this, (the marquee does have 4 walls and zip-in doors), or at least arriving by 5.00 am at the latest. The maximum number of motorcycles allowed into each exhibit is ten. Each motorcycle must have a sticker attached to be allowed in. Priority for the distribution of the stickers will go to those members who assist in the setting up of our exhibit. I will be calling for volunteers in the June meeting.

Welcome back to K Mac from his international sojourn, and thank you to Loges for filling in as Treasurer during his absence. A thank you also to Debbil and Jenny for keeping the lines of communication open during their recent adventure into the nether regions of Victoria and NSW. We managed to have several distant interactions in spite of some technological glitches.

Welcome also to our latest new members, Pedro and Mozzy. We hope to see you continuing to participate in our variety of activities in the future.

That's all for now. Safe riding.

Ynot

Member's Birthdays

Happy birthday to all members who celebrate their birthday this month. Members include Gers.

VIP dates

- ◆ **12-13/6/2010**—Weekend Away
- ◆ **18/07/2010**—Laverda
- ◆ **05/09/2010**—Father's Day
- ◆ **27-29/9/2010**—Mild Hogs Ride
- ◆ **5/10/??** — Debbil's Birthday

Treasurer's Report May 2010 (as received)

As at 1st May 2010

Balance Commonwealth 1 st . April. 2010			566-87
Plus Income			
	Sub total	Nil	
Less expenditure			
Embroidery Excellence	Patches	19-80	
Always Graphics	Banner	330-00	
	Sub Total	349-80	
Balance Commonwealth Bank 30 th . April 2010			217-07
Liabilities: cheques not yet presented			
Income:	Raffle	75-00	
Received at meeting 20 th April 2010	Glasses	30-00	
	Caps – 4off	68-00	
	Shirts – 2 off	70-00	
	Membership	33-00	
	Calender	2-00	
	Donation	5-00	
	Sub total	283-00	
Total Funds available			500-07
Stock			
Caps 14off	Value \$189-70		
Patches	Value \$112-50		

K



Chaos, panic and disorder - this is my normal workplace!

Minutes of meeting—20 April 2010 @ Broadway Hotel

- Meeting Opened:** 7.35 pm by Ynot.
- Attendance:** 20 members attended. They were: Apples, Barney, Boots, Debbil, Drastic, Jenny, Lace, Loges, Princess, Rowdy, Sam, Sarge, Shadow, Sparra, Steiny, Sugar, Tink, TT, Ynot, and Yogi.
- Visitors:** There were 4 visitors. They were: BC, Jodie, Pedro, and Trish.
- Apologies:** 7 people sent apologies. They were: Cosmo, Cougar, Ginger, Helen, Huffy, Kmac, and Phil.
- Minutes of Previous Meeting:** **Princess** moved that the minutes of the previous meeting published in the April Newsletter and distributed to all members be accepted as true and accurate. Sparra seconded the motion. 15 were in favour; 0 against; 5 abstained: motion was carried.
- Business arising from minutes:** **Purchase of Banner:** Ynot informed the meeting that the new Club Banner had been ordered.
 Letter to ColeLawson: Sarge said that he had sent a letter to ColeLawson regarding zero alcohol but there had been no response.
 Hervey Bay weekend away: Sarge will circulate details to all members next week.
 Errors in Event Calendar: Debbil said that these had been fixed.
- Correspondence in:** Nil.
- Correspondence out:** Nil.
- Business arising from** Nil.
- 1. GM's report:** **Sarge** said that everything's going well so have fun.
- 2. Ride reports:** **Yogi** described his South ride – also spoken of with awe from now on as “Yogi's Magical Mystery Tour”.
 Sam spoke about his West ride to Queen Mary Falls which didn't go to Queen Mary Falls.
 Sarge described his loong Baked Beans Ride and how he's never going to travel at Easter again as he will have to wait for the shops to open to fix his bike.
 Debbil spoke about the Central ride he took for Sarge, to Queen Mary Falls which actually did go to Queen Mary Falls.
- 3. Treasurer's report** **Loges** is acting as Treasurer and delivered the Treasurer's report. Princess moved that it be accepted. Sam seconded the motion. 19 were in favour; 0 against; 1 abstained: motion was carried.
- 4. Coordinator's Report:** Sugar said that she needed final numbers for the Lawn Bowls on Saturday 24th April at 9.30 am at the Coorparoo Lawn Bowls Club.
 She said that more Bikes and Riders photos are needed for the Web site. Just send your photo to Debbil.
 The DINNER ride is now the 1st of May. It's going to the Mapleton Hotel, Flaxton St. Mapleton. Numbers were needed for the table booking.
 If anyone wants to donate raffles for the monthly meeting, please let her know.
- 5. Merchandiser's Report:** **Loges** demonstrated the new Sunglasses and asked for more orders. A number of members supported him saying they were good value.
 He said that all Tee shirts had been sold.
 He also asked for suggestions for other merchandise. There seemed to be a desire for Bandanas/Scarves.
 Ynot said that Loges should keep a list of orders for Tee shirts and when there were enough for a bulk order, to then get the money and order them.
 Debbil spoke about collecting Club Calendars that had been paid for.

- 6. Distribution of Merchandise & Raffle Sales:** Distribution of Merchandise & Raffle Sales were carried out during the break.
- 7. Welcome to new members:** **Ynot** welcomed BC to the Club who spoke a few words to members.
- 8. Discussion to change meeting venue:** **Steiny** suggested meetings could be held at the Glen Hotel on Sundays and then members could go for a ride afterwards, instead of on Tuesday night.
 There was considerable discussion and the idea lapsed.
- 9. Notice of Motions at May meeting:** **Ynot** brought members' attention to two motions to be proposed at the May meeting. One was to change the Rules for membership; the other was to add newly developed By-Laws.
 He pointed out that both would have to obtain 75% approval from those financial members present at the meeting.
 He urged members to study the suggested changes so they were informed before voting.
- 10. Information Session:** **Tail-end-Charlie:** Debbil spoke about the role of Tail-End-Charlie and how this role is very important for the safety of a group ride.
- Other Business (without notice):** **Shadow** asked if somebody could Pillion TT to the night Dinner ride. Barney suggested that he would be going by car and could possibly take her.
 Princess suggested that Ynot and others check out the Capalaba Tavern as a possible meeting venue. Ynot replied that he and Sugar had already intended to do so.
 Sarge spoke about a possible BBQ/Sausage Sizzle at Sparra's place on 2nd May to wet the Marquee's head (try to work out how to open it). Sugar will broadcast details.
 BC notified members of a Point-to-Point Camera north of Caboolture.
 Drastic is bored by the Website as people are not sending their photos to Debbil, and not using the Chat room. So to prevent Drastic boredom, do so now!
 Loges said that he had given a brochure to Sarge about Swan Insurance and a Wheel/Tyre/Rim/Pothole insurance.
- Raffle:** **Sarge** won the Bottle of Grants that was donated by Sam.
- Next meeting date:** 18 May 2010
- Meeting closed at:** 9.30 pm

Coordinator's report—May 2010

It was a great day for the Marquee commissioning ceremony and a great turnout. Thanks to Sparra and Ginger for letting us use their place for this event. 15 members and 1 guest attended.

Please keep Sunday the 18 July free for the Laverda Concourse at Captain Bourke Park under the Story Bridge. It is essential that as many members as possible turn up for this day as our Club is on public display for the first time.

Photos of Sundays Marquee event need to be passed onto Debbil to include on the web site.

The raffle this month is a donation from Lace once again. A BIG thanks to Lace and Boots for getting a terrific Marquee at such a good price.

There will be a social night out coming up soon. I will notify everybody of details at a later date.

Thanks to all who attended the Bare Foot bowling. It was an excellent day and everyone seemed to enjoy the activity. We will certainly have another Bowls morning at some future date for Sparra to defend his title of Champion.

Regards

Sugar

Ride— South — Sunday, 18 April 2010

No report received.

Ride— Central —Saturday, 24 April 2010

Bare Foot Bowls—No Ride.

Ride— West—Sunday, 25 April 2010

Anzac Day—No Ride.

Ride— Central —Saturday, 1 May 2010

Boots' Dinner Ride—postponed.

Ride— South — Sunday, 2 May 2010

No report received.

Ride— Central —Saturday, 8 May 2010

A good turn up for the ride with Ynot, Steiney, Phil, 2 guest riders and 1 pillion guest, one claiming that he was related to Phil but I am not sure and Kmac who has just returned from the autobahns of Europe.

We had a bit of a natter and then mounted up and headed to Blacksoil and then Fernvale with Ynot bringing up the tail end supported by Kmac and then Steiny on the 'tail wing' (The New Gold Wing).

A bit of traffic but nothing to report from this leg of the ride - just a brilliant day and a good road.

From Fernvale we turned onto the Spltyard Creek road and spread out just a little to enjoy the ride but still keeping a rider in the Mirror.

I pulled up at the intersection going to Mt Glorious to allow for the tail enders to catch up and for Neil (Guest) to suck a quick ciggy. Ynot made it known that the Honda would not travel much further if the rider did not get some caffeine intake soon so we headed off to Somerset Dam and stopped at the Café there for a Coffee intake. Kmac met a fellow Emu Chaser rider and had a good discussion about suspect transmissions in certain German designed Emu Chasers.

After Ynot signaled he was less grumpy and ready to ride, we headed off to Kilcoy and had Lunch at the Pub.

A satisfactory feeding completed, we then rode through Woodford and turned onto the road to Mt Mee and then rode across to Samford where we said our Goodbyes. 315 Km and the 'beast' is now due for a new rear Tyre.

A Good Ride and Good company

See Ya on The next one

Sarge

Ride— South — Sunday, 16 May 2010

No report received.

Event Calendar

Where it says "**Rider's Choice**" or "**Pillion's Choice**" or "**Member's Choice**"

We would like you to volunteer to lead a ride along your favourite roads.

If you want to take a Riders Choice, email the relevant Ride Captain at least two weeks before to let him/her know the meeting point (you decide), the route, the distance, and approximate ride duration.

If everything is OK, the Ride Captain will approve it and let you know ASAP.

When the Ride Captain lets you know, you **MUST** then email all members to give them advanced notice of the ride details.

(if you can't do that, ask the Secretary to do it ASAP).

YOU must then lead the ride.

If nobody volunteers, the relevant Ride Captain will take the ride as usual.

You must phone the relevant Ride Captain by 7.30 pm the night before a ride to confirm you wish to do that ride.

Meeting Points & Ride Captains

South	M1, Exit 38, Yatala (BP Service Centre)	Yogi — 11yogi11@gmail.com Mob: 0418 692 277; Ph: 07 3206 0440
West	McDonalds, 2 William St, Goodna	Sam —samhobden@hotmail.com Mob: 0419 174 201; Ph: 07 5464 1066 Cosmo —cutidea@bigpond.com.au Ph: 07 5464 5275
Central	McDonalds, Logan Rd & Norton St, Upper Mt Gravatt	Sarge —sarge44@bigpond.net.au Mob: 0417 636 425; Ph: 07 3272 5981

May 2010

Sat 1	Central	4.30pm	Night Dinner Ride (Contact BOOTS on 0416 034 886)	?
Sun 2	South, but CENTRAL start	9.00 am	Central start (Maccas Mt Gravatt) —going north: Caloundra, Mooloolaba, Noosa, Home	?
Sat 8	Central	9.00 am	Grandchester, Laidley, Esk, Kilcoy, Home	280 km 6 hours
Sun 9	West	9.00 am	Mother's Day, so Mum's Choice	?
Sun 16	South	9.00 am	Yatala, Advance Town, Natural Bridge, Byron Bay, Home	306 km 5.5 hours
Tues 18	ALL	7.30 pm	Broadway Hotel Woolloongabba	
Sun 23	Central	9.00 am	Rider's Choice	?
Sat 29	West	9.00 am	Pillion's Choice	?

June 2010

Sun 6	South	9.00 am	Yatala, Cleveland, Redland Bay, (tourist drive)	180 km 5 hours
Sat-Sun 12-13	Central	9.00 am	TBA Weekend away	? 2 days
Tues 15	ALL	7.30 pm	Broadway Hotel Woolloongabba	
Sun 20	West	9.00 am	Gatton, Toowoomba, Oakey, Goombungee, Hampton, Esk, Fernvale	278 km
Sun 27	South	9.00 am	Rider's Choice	?

July 2010

Sat 3	Central	9.00 am	Samford, Dayboro, Mt Mee, Maleny, Burpengary, Home	210 km 5 hours
Sun 11	West	9.00 am	Aratula, Maryvale, Allora, RUDDS Pub, Ma Ma Creek, Laidley, Walloon	280 km
Sun 18	South	Early	Laverda Concourse—Captain Bourke Park, Kangaroo Point	ALL
Tues 20	All	7.30 pm	Broadway Hotel Woolloongabba	
Sat 24	Central	9.00 am	Rider's Choice	?

August 2010				
Sun 1	West	9.00 am	Pillion's Choice	?
Sun 8	South	9.00 am	Mt Tambourine, Canungra, O'Reilly's Rainforest Guesthouse, Canungra, Coomera	122 km
Sat 14	Central	9.00 am	Samford, Mt Glorious, Esk, Kilcoy, Home	300 km 6.5 hours
Tues 17	All	7.30 pm	Broadway Hotel Woolloongabba	
Sun 22	West	9.00 am	Flagstone Creek, Cambooya, Pittsworth, Oakey, Toowoomba, Gatton	352 km
Sun 29	South	9.00 am	Rider's Choice	?
September 2010				
Sat 4	Central	9.00 am	Beaudesert, Mt Lindsay, Kyogle, Lions Road, Beaudesert, home	350km 6 hours
Sun 5	West		Father's Day	
Sun 12	South	9.00 am	Mullumbimby, Montecollum, Rosebank, The Channon, Koonorigan, Nimbin, Blue Knob, Kunghur, Murwillumbah, Tweed Heads, Coomera	317 km
Sun 19	Central	9.00 am	Beaudesert, Boonah, Harrisville, Rosewood, Black soil, Home	300 km 5.5 hours
Tues 21	All	7.30 pm	Broadway Hotel Woolloongabba	
Sat 25	West	9.00 am	Rider's Choice	?
Mon-Wed 27-28-29	Debbil (West start)	8.30 am	Mild Hogs Ride —Leyburn, Texas, Inverell (overnight) Uralla, Tamworth (Powerhouse Museum), Walcha, Dorrigo (overnight) Tyringham, Nymboida, Grafton, Woodburn, Casino, Beaudesert, Home.	1,400 km 3 days
October 2010				
Sun 3	CENTRAL	9.00 am	South but Central start —going north: Caloundra, Mooloolaba, Noosa, Home	?
Sat 9	Central	9.00 am	Esk, Yarraman, Nanango, Kingaroy, Kumbia, Bunya Mountains, Bensenville, Maidenwell, Blackbutt, Esk	550 km
Sun 17	West	9.00 am	Peak Crossing, Boonah, Queen Mary Falls, Killarney, Yangan, Clintonvale, Aratula, Ipswich	295 km
Tues 19	All	7.30 pm	Broadway Hotel Woolloongabba *** AGM ***	
Sun 24	South	9.00 am	Rider's Choice	?
Sun 31	Central	9.00 am	Pillion's Choice	?
November 2010				
Sat 6	West	9.00 am	Fernvale, Wivenhoe Dam, Esk, Lowood	123 km
Sun 14	South	9.00 am	Yatala, Beaudesert, Kyogle, Lismore, Bangalow, Coomera	350 km
Tues 16	All	7.30 pm	Broadway Hotel Woolloongabba	
Sat 20	Central	9.00 am	Landsborough, Nambour, Cooroy, Noosa, Caloundra, Burpengary	295 km
Sun 28	West	9.00 am	Rider's Choice	?
December 2010				
TBA	ALL		Christmas Party !!!!! on a date to be decided	
Sun 5	South	9.00 am	Mudgeeraba, Neranwood, Springbrook, Ingleside, Tallebudgera, Dungay, Murwillumbah, Tumbulgum, Coomera	204 km
Sun 12	Central	9.00 am	Mt Nebo, Glorious, Somerset, Kilcoy, Toogoolawah, Esk, Hampton, Toowoomba, Murphys Creek	400 km
Sat 18	West	6.00 pm	Christmas Lights ride and Dinner	
Tues 21	All	7.30 pm	Broadway Hotel Woolloongabba	
Sun 25			Christmas Day	Prezzies
Sun 26	South	9.00 am	Rider's Choice	?

January 2011				
Sat 1	West	9.00 am	New Year's Day: Redbank Plains, Greenbank, North Maclean, Jimbour, Mundoolin, Canungra	Hangover ?
Sun 9	South	9.00 am	Advancetown, Natural Bridge, Byron Bay, Home	?
Sat 16	Central	9.00 am	Samford, Dayboro, Mt Mee, Maleny, Burpengary, Home	210 km 5 hours
Tue 18	All	7.30 pm	Meeting at Broadway Hotel, Woolloongabba	
Sun 23	South	9.00 am	Rider's Choice	?
Wed 26			Australia Day	
Sat 29	West		Rosewood, Gatton, Murphys Creek, Hampton, Esk, Fernvale	?
February 2011				
Sun 6	Central	9.00 am	Blacksoil, Fernvale, Esk, Splyard Creek, Mt Glorious, Samford, Home	?
Sat 12	West	9.00 am	Peak Crossing, Boonah, Queen Mary Falls, Aratula, Ipswich	220 km
Tues 15	ALL	7.30 pm	Broadway Hotel Woolloongabba	
Sun 20	South	9.00 am	Yatala, Cleveland, Redland Bay (Tourist Drive)	180 km 5 hours
Sat 26	Central	9.00 am	Beaudesert, Boonah, Rosewood, Blacksoil, Home	320 km 6 hours
March 2011				
Sun 6	South	9.00 am	Beaudesert, Lions Road, Kyogle, Nimbin, Murwillumbah, Home	289 km 6 hours
Sat 12	Central	9.00 am	Rider's Choice	?
Tues 15	ALL	7.30 pm	Broadway Hotel Woolloongabba	
Sun 20	West	9.00 am	Advancetown, Natural Bridge, Byron Bay, Home	?
Sat 26	Central	9.00 am	Rider's Choice	?



**If at first you don't succeed,
destroy all evidence that you ever
tried!**

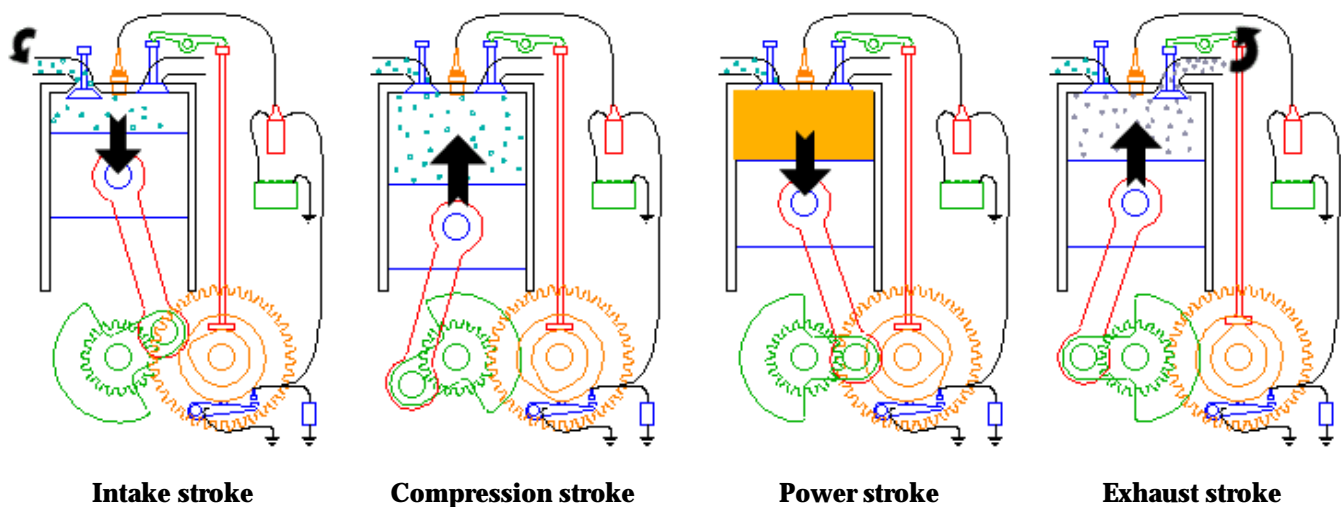
History of Motorcycles—part 4

The Otto Cycle

Motor vehicles of all kinds, and motorcycles in particular were dependent on the development of the internal combustion (or IC) engine.

While some of the first engines were 2-strokes (or 2-stroke cycle—think petrol and oil mixed together), most of the effort to design compact IC engines concentrated on the 4-stroke (or 4-stroke cycle—petrol and no oil). Although 2-strokes are much less complex, most early motorcycles were powered by the more "popular" 4-strokes.

The 4-stroke engine's operating principle is often referred to as the Otto Cycle. Nicholas Otto gets credit for the first successful 4-stroke. While all types of engines have become more sophisticated over the years and their power, performance, reliability and efficiency have greatly improved, the operating principle shown here, remains the same.



All IC engines get their motive power from the transfer of energy. Fuel is burnt to produce heat, which causes a vaporized fuel/air mixture to expand and push on a piston, or rotor (in a rotary engine). This then transmits its energy to one or more wheels and propels the vehicle.

In 1862 a French scientist, Lenoir, patented, but did not build, a 4-stroke engine. Sixteen years later, in 1876, Nicholas Otto, a traveling salesman, developed an IC engine based on Lenoir's work. His first machines were in fact 2-stroke designs, though he didn't continue with these. Otto's later designs, due mostly to the efforts of Daimler and others he employed, are credited as being the first fully function engines capable of sustained and controlled operation for use in a non-stationary application. Or so the majority of historical records would seem to indicate.

However, some references seem to dispute this. According to one version of history, not only was it Daimler - while working for Otto, then later on his own - who was mainly responsible for the development and design of the Otto Cycle engine, but it also states that Otto was not really a designer or inventor himself, but saw the possibilities of such devices and provided the funds for others.

Furthermore, in this version of the history of IC engine design, it gives credit to one Siegfried Marcus as actually having developed the first fully operational IC engine incorporating not only the use of a liquid fuel, but also a "spray" carburetor, as apposed to a evaporation carburetor and battery and coil ignition system, as apposed to a "flame" ignition system, used by several other inventors of the time.

These three factors allowed for a design that was compact enough for mobile use and also allowed the engine's speed to be controlled. Most other designs of the time only ran the engine at a single speed. These were useful for stationary machinery, but not practical for transportation. There were a number of other technical factors needing to be solved before a practicable IC engine for transportation was available.

But by 1900, these obstacles had been mostly overcome and the development of the engine that powers the motorcycle was well on its way. Thus, by the turn of the 20th century the basic layout and operation of the motorcycle was much as we see it today, with the emphasis on Basic!

To be continued

Merchandising—contact Loges—see p. 2 for details



Steel Horses Caps \$17.00



Chopper sunglasses \$15

LADIES
Jeni B
3/4 Sleeve
Black



LADIES
Jeni B
3/4 Sleeve
White



Tee-shirts \$36

The club does not stock these but will put your name on a wait-list.

MENS
Johnny Bobbin
Long Sleeve
Black



MENS
Johnny Bobbin
Long Sleeve
White



When the Merchandiser decides there are enough for a bulk order, you will then pay for your order.

How to wear your Patch and Insignia

