POWER CHAINS
TECHNICAL DATA / ASSEMBLY REQUIREMENTS

POWER CHAINS

		PC 99 Hollow Pin	PC 89R Hollow Pin	PC 990	PC 970	PC 950
Application		MTB	Road	MTB / Road	MTB / Road	MTB / Road
Max. No. of sprockets		9 only	9 only	9 only	9 only	9 only
Compatibility Front		HG / EXA-Drive	HG / EXA-Drive	HG / EXA-Drive	HG / EXA-Drive	HG / EXA-Drive
Compatibility Rear		HG / EXA-Drive	HG / EXA-Drive	HG / EXA-Drive	HG / EXA-Drive	HG / EXA-Drive
Dimension		1/2" x 11/128"	1/2" x 11/128"	1/2" x 11/128"	1/2" x 11/128"	1/2" x 11/128"
Pin	Length	6.35 mm	6.15 mm	6.65 mm	6.65 mm	6.65 mm
	Riveting	Cylindrical	Cylindrical	Step	Step	Step
	Chrome Hardened	Yes	Yes	Yes	Yes	Yes
	Push Power	2000 N / 450 lbs.	1500 N / 340 lbs.	2000 N / 450 lbs.	2000 N / 450 lbs.	2000 N / 450 lbs.
Min. Tensile Strength		9000 N / 2023 lbs.	9000 N / 2023 lbs.	9000 N / 2023 lbs.	9000 N / 2023 lbs.	9000 N / 2023 lbs.
Weight (114 links)		284 g	271 g	297 g	297 g	297 g
Design	External Pin Plate	Silver / Nickel Plated	Silver / Nickel Plated	Nickel Plated	Nickel Plated	Grey
	Internal Pin Plate	Silver / Nickel Plated	Silver / Nickel Plated	Nickel Plated	Grey	Grey
	Weight Reduced	Yes	Yes			
Connecting Method		Power Link Gold	Power Link Gold	Power Link Gold or Pin	Power Link Gold or Pin	Power Link Gold or Pin

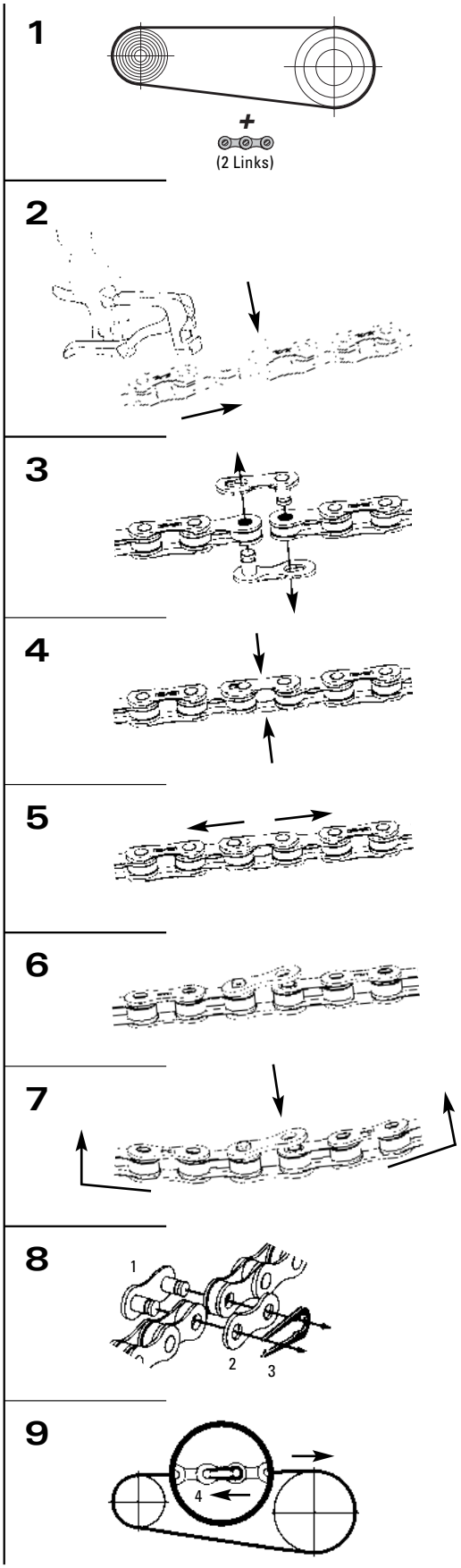
POWER CHAINS

		PC 68	PC 58	PC 48	PC 38 Saltshaker	PC 38
Application		MTB	MTB	MTB	MTB / Road	MTB / Road
Max. No. of sprockets		max. 8	max. 8	max. 8	max. 8	max. 8
Compatibility Front		HG / IG / PG / EXA-Drive	HG / IG / PG / EXA-Drive	HG / IG / PG / EXA-Drive	HG / IG / EXA-Drive	HG / IG / EXA-Drive
Compatibility Rear		HG/HG-I/IG/PG/EXA-Drive	HG/HG-I/IG/PG/EXA-Drive	HG/HG-I/IG/PG/EXA-Drive	HG/HG-I/IG/PG/EXA-Drive	HG/HG-I/IG/PG/EXA-Drive
Dimension		1/2" x 3/32"	1/2" x 3/32"	1/2" x 3/32"	1/2" x 3/32"	1/2" x 3/32"
Pin	Length	7.1 mm	7.1 mm	7.1 mm	7.1 mm	7.1 mm
	Riveting	Cross Step	Step	Step	Step	Step
	Chrome Hardened	Yes	Yes	Yes		
	Push Power	2000 N / 450 lbs.	1500 N / 340 lbs.	1500 N / 340 lbs.	1100 N / 247 lbs.	1300 N / 292 lbs.
Min. Tensile Strength		9000 N / 2023 lbs.	9000 N / 2023 lbs.	9000 N / 2023 lbs.	9000 N / 2023 lbs.	9000 N / 2023 lbs.
Weight (114 links)		307 g	307 g	307 g	307 g	307 g
Design	External Pin Plate	Silver / Nickel Plated	Silver / Nickel Plated	Grey / Polished	Light Grey	Grey / Polished
	Internal Pin Plate	Silver / Nickel Plated	Grey / Polished	Grey / Polished	Light Grey	Grey / Polished
Connecting Method		Power Link Silver	Power Link Silver or Pin	Power Link Silver or Pin	Power Link SS2 or Pin	Power Link Silver or Pin

POWER CHAINS

		PC 10 Saltshaker	PC 10	PC 1 Saltshaker	PC 1 Ni	PC 1
Application		MTB	MTB	Gear Hubs	Gear Hubs	Gear Hubs
Max. No. of sprockets		max. 7	max. 7	1	1	1
Compatibility Front		Single / HG	Single / HG	Single	Single	Single
Compatibility Rear		Single / HG	Single / HG	Single	Single	Single
Dimension		1/2" x 3/32"	1/2" x 3/32"	1/2" x 1/8"	1/2" x 1/8"	1/2" x 1/8"
Pin	Length	6.9 mm	6.9 mm	7.8 mm	7.8 mm	7.8 mm
	Riveting	Step	Step	Step	Step	Step
	Push Power	1000 N / 225 lbs.	1000 N / 225 lbs.	800 N / 180 lbs.	800 N / 180 lbs.	800 N / 180 lbs.
Min. Tensile Strength		9000 N / 2023 lbs.	9000 N / 2023 lbs.	9000 N / 2023 lbs.	9000 N / 2023 lbs.	9000 N / 2023 lbs.
Weight (114 links)		300 g	300 g	330 g	330 g	330 g
Design	External Pin Plate	Light Grey	Brown	Light Grey	Silver / Nickel Plated	Brown
	Internal Pin Plate	Light Grey	Brown	Light Grey	Silver / Nickel Plated	Brown
Connecting Method		Power Link SS1 or Pin	Power Link Grey or Pin	Snap Lock or Pin	Snap Lock, 3pcs Connection Link or Pin	

POWER CHAINS
ASSEMBLY / MAINTENANCE



PC 99 / PC 89R / PC 990 / PC 970 / PC 950 / PC 68 / PC 58 / PC 48 / PC 38 / PC 10 (1/2" x 3/32" AND 1/2" x 11/128")

Chain length:
- Shorten chain to the length specified by the derailleur manufacturer.

SRAM derailleurs:
- Place chain over largest front chainwheel and largest rear sprocket and add 2 links or 1 link + Power Link ***(Fig. 1)***.
- For rear suspension frame, position the rear suspension for the greatest chain length required.

Closing standard version with clamping pin:
Fit chain, bring the two ends together and press pin ***(Fig. 2)*** through with assembly tool. **The pin must extend by the same amount at both outer plates. It must be possible to move the connecting link slightly.**

Power Link connecting links:
Caution:
- ***Use only for SRAM chains, use as specified, to avoid material damage or the rider to fall off his bicycle resulting in injury.***
- ***Use only Power Link Gold for closing Hollow Pin chains (no pin).***

Power Link Grey	grey coloured
	for PC 10
Power Link SS1 (SaltShaker 1)	light gray coloured
	for PC 10 SaltShaker
Power Link Silver	silver coloured
	for PC 38
Power Link SS2 (SaltShaker 2)	light grey coloured
	for PC 38 SaltShaker
Power Link Gold	gold coloured
	for PC 990, PC 970, PC 950, PC 99 & PC 89R Hollow Pin

Closing:
- Fit chain, bring the ends together and insert both halves of the Power Link into the chain ends. ***(Fig. 3)***
- Press both halves of the Power Link together ***(Fig. 4)*** and lock in place by pulling the chain apart. ***(Fig. 5)***

Opening:
- Press both plates of the Power Link together ***(Fig. 4)*** while sliding the chain ends together (unlock). Remove the two halves of the link from the chain ends.

Caution:
Always use a new Power Link when fitting a new chain. Failure to shorten the chain properly or to lock it exactly into place may cause damage to the chain and eventually total chain failure, material damage or the rider to fall off his bicycle resulting in injury.

PC 1 (1/2" x 1/8")

Closing chain with Snap Lock:
- Fit the shortened chain, bring the ends together and connect with the Snap Lock. Place the outer plate on one pin ***(Fig. 6)***.
- Gently flex the chain until the outside connector plate snaps into position over the second pin ***(Fig. 7)***.

Caution:
- ***Make sure plate is fully seated in the pin channel and plates are parallel to each other.***
- ***If movement of the connector plate is noticed a new Snap Lock must be used.***
- ***Always use a new Snap Lock when fitting a new chain. Failure to shorten the chain properly or to lock it exactly into place may cause damage to the chain and eventually total chain failure, material damage or the rider to fall off his bicycle resulting in injury.***

Closing chain with 3pcs Connection Link:
- Fit the shortened chain, bring the two ends together and connect with the chain lock. The chain lock consists of an outer plate with pins (1, ***Fig. 8***), an outer plate (2) and a retaining spring (3).
- Insert outer plate with pins (1) into the chain ends, attach outer plate (2) and press chain lock together (1+2).
- Attach retaining spring (3) with the closed end of the retaining ring pointing in the direction of chain travel ***(Fig. 9)***.
- Slide retaining spring in the direction of arrow (4, ***Fig. 9)*** to engage it in the grooves in the pins.

Closing standard version with clamping pin:
Fit chain, bring the two ends together and press pin ***(Fig. 2)*** through with assembly tool. **The pin must extend by the same amount at both outer plates. It must be possible to move the connecting link slightly.**

MAINTENANCE
- Regular lubrication will extend the chain's service life.
- Apply oil to the chain rollers and allow to work in.
  Clean dirty chains before oiling. Do not use any grease-dissolving or acidic agents. Cleaning agent must be rinsed off after a few minutes with water.
- Apply oil after chain is completely dried.