



Husqvarna motorcycles

OWNER'S MANUAL

WARNING:

Always wear eye protection. Do not be under any stress by the time of the test. There is a need to stress the function of brakes, calipers, control suspension, and steering system after work.

By following the instructions in the manual and using reasonable safety steps, the responsibility your using will be safe and accurate.

Using a correct tool:

Use appropriate equipment, do not use tools.

You and your Husqvarna

Welcome to the world of Husqvarna bikes, in which we trust soon you will find yourself

The experience gained both in the laboratory and on testing circuits throughout the world built into your machine. It has been manufactured with the greatest care in its own workshop based on long experience, thereby the highest possible performance reliability.

In order to help you take proper care of your motorcycle we have compiled the instructions and advice. Please study the manual carefully – by doing so you will get many pleasant hours with your Husqvarna.

Remember – instructions and advice in this manual go with the aim towards a greater safety and success.

Good luck and good riding!

HUSQVARNAS MOTORCYCLAR AB
Sölvesborg - Sweden



Controls

Front handle (steering position)

Steering is done by pulling the lever towards the handlebar (see Fig. 2.1).

Steering must be done in every gear change.

All button

The front wheel motor is activated by the left part of the handlebar (see Fig. 2.1).

Fig. 2.1



Brake handle

The front wheel brake is activated when pulling the lever towards the handlebar (see Fig. 2.2).

Front wheel control handle

The front wheel control handle is located on the right part of the handlebar. It can be adjusted after the screws have been loosened.

The handle can be tilted on the handlebar by loosening the screws. Don't forget to tighten the screws.

Fig. 2.2



Handlebar

Adjust the handlebar to suit your riding posture (see page 52).

Fig. 2.3



Check that the wires are distributed properly (see Fig. 2.4).

The front brake wire should be mounted in front of the clutch wire and the front brake wire guide is positioned after front gear shift at the fork leg.

Fig. 2.4





Fig. 41

Fuel cock

The fuel cock is located underneath the tank.

NOTE There is no reserve fuel supply.



Fig. 42

Kick-start/pedal

The engine is started by hitting the pedal strongly downwards and upwards with one piston in the correct position. See Fig. 42. Make sure your legs are under the foot pedal when starting the engine.

NOTE Do not alter the position of the starter chain on the start in order to get an easier starting, as there is the risk that the gear-plate on the motor-chain is broken or stretching.



Fig. 43

Kick-pedal

The kick pedal controls the one speed from through a pulley.



Fig. 44

Over-lean internal adjusted

The position is controlled by a lever that controls all three jets of the engine.

The pedal returns automatically to its original position between each gear change/revolution. See Fig. 44.

The lever can be helped on its shaft by loosening the screw, just not the pedal pin follow the correct position.

NOTE Tighten the screw.

Breaking in

Warning

This motorcycle is designed for off-road operation. Fuel, timing, exhaust system and carburetor settings designed to meet high-rpm, very-high-throttle horsepower will not meet a road throttle response or high-rpm, high-throttle engine-revving tolerance.

To avoid trouble the following is recommended:

1. Use fuel sources with small throttle openings. Most throttle openings are 1.5:1, plus the engine-to-air ratio.
2. Limit engine and throttle rpm.
3. Use your throttle for the correct throttle when working your way.
4. Use only unleaded gasoline.

Starting

1. Make sure you have fuel in the petcock. See Petcock.
2. Open the fuel cock towards the gas tank.
3. Pull the choke lever downwards until the choke valve is fully open.
4. Move the gear lever to neutral position.
5. Pull the kill switch past the stop position with closed throttle.
6. Let the engine run for a while with the choke valve fully open, then close the choke valve by pulling the choke lever upwards.
7. Pull the choke lever towards the handlebar and pull the gear lever down to the top gear.
8. Release the throttle completely and leave the choke lever and the motorcycle there for more.



Fig. 17



Fig. 18

After the first testing with the motor cycle, you ought to check these things:

1. Tighten the engine in both front and rear wheel.



Fig. 10

4. Tighten the bolts behind head and rear wheel.



Fig. 11

5. Tighten the bolts holding the seat post.



Fig. 12

6. Drive chain.

Check to see that the distance between the front and rear sprockets when chain is in lowest position (Fig. 13).

Make necessary and required chain length and interconnectivity setting on the chain. Adjust chain slack adjustment in order to adjust size. The chain should also be lubricated with engine oil every time before use. See also page 36 "Lubricating the chain tension".



Fig. 13

7. Adjusting steering handle.

Turning a handlebar (with front fork) over the motorcycle handle, so to that the front wheel can rotate freely.

Check the lower part of the fork legs and try to move them backwards and forwards in the longitudinal direction (illustration).

4. Rear suspension adjuster

Loosen the upper lock plate and tighten the upper spring bearing steel with a pin. Check that the bearing does not move axially.



Fig. 11

Tighten the pin nut and the lock plate clamping bolts. Check that the bearing does not move axially.

5. Rear shock absorber

Tighten the screws fastening the shock absorber holder to a torque of 40 Nm (293 lb ft).



Fig. 12

7. Spring bolts

Tighten the spring bolts, both front and rear.



Fig. 13

8. Wheel hub bracket

Tighten the bracket nut. Use lock washers for torque.

NOTE Tighten the front wheel bearings, for specifications, refer to the wheel bearing adjustment chart (page 7-40).



Fig. 14



Fig. 17

8. Head nuts

Tighten the screws holding head nuts tight.



Fig. 18

10. Cylinder and cylinderhead

Tighten the nuts holding the cylinder and cylinderhead. See Section 14 for the correct torque. Tighten the nuts after they set.

Engine

General

The engine is a glycol-cooled, air-cooled, horizontal unit. The engine and gearbox form a single unit.

Removal and fitting

1. Remove the lubricant system by loosening the screws that attach the engine feeding exhaust pipe. See Fig. 4.1.
2. Remove the two screws holding the fan cover. See Fig. 4.2.
3. Remove the belt pulley. Take off the covers from the engine unit and let the water being drained. See Fig. 4.3.

Fig. 4.1



Fig. 4.2



4. Remove the chain, the front mounting pulley and the shaft holding the pulley unit. See Fig. 4.4.
5. Remove the engine out of the frame. See Fig. 4.5.

Fig. 4.3





Fig. 107



Fig. 108



Fig. 109



Fig. 110

Removing and changing piston ring, piston and cylinder

The cylinder and piston can be removed with the engine still in the frame. But in 1000P and 102.

1. Loosen the four cylinder head retaining nuts 27 mm and the two screws 20 mm and take off the cylinder head.

2. Lay the motorcycle on the side so that oil from the cylinder flows out to fill the crankcase when you lift the cylinder.

3. Lift the thermostat about 1 cm from the manifold and place a piece of cloth over the manifold opening to prevent dirt from entering the manifold.

4. Lift off the cylinder.

5. Remove the piston ring from the piston.

6. Check piston ring, piston and cylinder for wear. Clean to repair.

7. Before fitting the piston ring, carefully remove any carbon deposits from the groove in the piston.

This is preferably done with an old piston ring when it is replaced again.

1. Lay in the cylinder head against the cylinder with the gaskets.



Fig. 100

2. Place the piston at bottom dead center.



Fig. 101

3. Carefully oil the cylinder bore and piston ring and fit the cylinder head the piston.

NOTE: Make sure that the piston ring is placed correctly in relation to its locking pins and combustion pins on the cylinder to avoid damage to the pistoning.



Fig. 102

10. Fit the cylinder head and tighten the four retaining nuts and the two screw nuts.

11. Then tighten the screws alternately.
See Technical Data, for correct torques.



Fig. 103



Fig. 207

Time for repairs

Oil muddiness

Remove the oil ring when the axial play exceeds 0,20 mm (0,0079 in). After you get oil from the cylinder.



Fig. 208

Ring clearance

Remove the oil ring as soon as the axial play is defined. Check for gaps by looking at the two ends of the constriction in the axial direction.



Fig. 209

Skirt

The skirt should be fixed as 0,10 mm (0,0039 in) when the axial fit to the cylinder is 0,05 mm (0,0019 in), when the fit between the piston rings is 0,05 mm (0,0019 in).



Fig. 210

Piston ring

Check the wear on the piston ring by passing it in the lower part of the cylinder (Fig. 210). Measure the distance between the piston ring and the hole gauge. If the distance between the piston rings is 0,05 mm (0,0019 in) the piston ring should be fixed. Use the ring to measure along the piston ring, usually necessary. Check the separation of the piston ring in the piston.

Also check over the piston cover and combustion chamber.

Notes

The piston has two points of wear in the ring groove area.

- When the play in the ring groove amounts to 0.10 mm to a tenth of approx. 0.20 mm, replace the piston.



Fig. 10.1

- When the piston starts with clearances that correspond to values 0.20 mm can be seen as illustrated in Fig. 10.2 using the piston.

For taking the maximum tolerances for other engine mechanical units, see technical data in printed user manual. Regarding similar tolerance page 17.



Fig. 10.2

Changing spark plug

The spark plug is changed with a spanner.

Remove the three screws. Take out the sparkplug and change the spark.



Fig. 10.3

Remarks

Use correct maintenance ground. Keep the engine in good shape.

Do not make any modifications without manufacturer's approval. Use correct tools and equipment for the work.



Fig. 10.4

FUEL SYSTEM



REF. 101

Fig. 1.1.1

Structural design effectiveness of tuning parts in relation to the turbine wheel spacing.

The thickness of the grooves in Fig. 1.1.2 shows the different tuning parts used.



Fig. 1.1.2

Checks

The carburettor is provided with a starting device. To give extra starting assistance to engines with low engine speed, press the choke-lever down and turn the throttle-handle to idle.

NOTE Do not use the choke when the engine is warm.



Fig. 10.1

Carburettor adjustment

Idling

Always warm up the engine before adjusting idling. Turn the main-leverage screw, then screw down the jets.

NOTE Do not turn it too far towards the bottom.

- 1 = 1st screw
- 2 = throttle stop screw
- 3 = throttle cable adjuster

Start the engine and adjust the throttle stop screw until a satisfactory idle running speed is achieved.

Adjust the jet screws until the engine runs smoothly during operation under a normal load. After the jets are given a final adjustment.

If necessary, readjust the throttle stop screw for a satisfactory idle running speed.



Fig. 10.2

The selection of the opening of the jets will affect the air-fuel ratio. Turn the jet to give a rich or lean mixture and see if the engine revs more smoothly.

If the throttle is too wide, increase in the speed until a satisfactory idle. Turn the choke up (at the other end, which gives rise to heavy exhaust smoke as well as a full exhaust note). If you cannot maintain the speed in the range of 15-20 km/h, (10-12 mph) work with the jet-head screw; the throttle is closed.



Fig. 10.3



Fig. 10



Fig. 11



Fig. 12



Fig. 13

Results and results (a)

The results are used the results curve to determine the force that will be produced by the coil when the number of turns is 100. The results are used the results curve to determine the force that will be produced by the coil when the number of turns is 100. The results are used the results curve to determine the force that will be produced by the coil when the number of turns is 100.

Results and results (b)

By changing the number of turns on the coil, a small number of turns will give you a small number and on the other hand a large number of turns will give you a large number.

Results

The first way to determine the right size of wire is to try an extremely large number of turns of the wire and then try a small number of turns. Let the wire be stretched to its limit and then let it be stretched to its limit. Let the wire be stretched to its limit and then let it be stretched to its limit.

The Fig. shows the results curve showing a relationship between the number of turns and the force. The curve shows that as the number of turns increases, the force also increases, but at a decreasing rate.

Results

High temperature, high pressure, and low pressure are all factors that affect the results. The results are used the results curve to determine the force that will be produced by the coil when the number of turns is 100.

The Fig. shows the results curve showing a relationship between the number of turns and the force. The curve shows that as the number of turns increases, the force also increases, but at a decreasing rate.

Flowmeter (Mikrolux)

The fuel injection is checked by removing the flow chamber from the carburettor, then the carburettor is removed and fixed to the fuel tank with your finger.

When the flowmeter is 17-18, connect the carburettor. Then, the needle should just close the valve. See fig. 17.1.



Fig. 17.1

Speed valve

The carburettor features a speed system which provides the fuel jet directly from the jet orifice through the carburettor. The valves are located between the jet and the carburettor.

Engine trouble shooting

When the carburettor settings are not correct for the engine, various symptoms are noticed. These can be traced to the main reasons.

- (1) When the air fuel mixture is too rich:
 - (a) The engine runs a dull and slow motion.
 - (b) The condition grows worse, when the choke is opened.
 - (c) The condition grows worse, when the engine gets hot.
 - (d) Backlash of the air cleaner will increase the condition gradually.
 - (e) Exhaust gases are black.
 - (f) Spark plug fouled.
- (2) When the air fuel mixture is too lean:
 - (a) The engine gets overheated.
 - (b) The condition improves, when choke is opened.
 - (c) Acceleration is poor.
 - (d) Exhaust may rattle.
 - (e) The condition of the engine (lean) and hot of power is in.



Fig. 14-1

Dismantling and cleaning the carburetor. (MILLEN)

1. Remove the throttle from the carburetor. Loosen the carburetor attaching screws and remove the carburetor from the intake manifold and air filter housing. Remove the float chamber from the carburetor by loosening the four screws.

Remove the jet and take out the float valve.

Remove the spring and take out the float needle. Thoroughly clean all parts in petrol and blow dry with compressed air. Reassemble the carburetor in the reverse order (see Fig. 14.2).

NOTE: Make sure that the float chamber is fixed correctly on the carburetor housing and that the adjuster screw between the carburetor and air filter holder is fixed.



Fig. 14-2

Check the fuel cock after two days (20).



Fig. 18.1

Changing throttle wire

1. Remove carburettor cover and related line throttle.



Fig. 18.2

2. Compress throttle spring, take out the wire lock and unhooked wire.

3. Remove the cover of the throttle lever and remove the wire.

4. Fit a new wire in handle grip and the throttle in carburettor.

NOTE: Turnright the wire lock.



Fig. 18.3



Fig. 18-4

Front-panel adjustment

Turn in the counter-clockwise adjusting screw (A) and screw it back until there is no gap at the front panel.

NOTE: Don't forget to lock up the counter-clockwise screw.



Fig. 18-5

Removing and cleaning the air filter
1. Remove the panel and disassemble (Cover as in Fig. 18-5).

2. Extract the air filter holder and remove the filter with its cover.



Fig. 18-6

3. Clean the filter in place or remove by spraying it, only in the front or back lines, at least once in five days (clean).

NOTE: Never touch the surface of the filter.

WARNING

Never use gasoline or the like to clean the filter. If cleaning the air filter is done in a closed space, a fire or explosion could result.

4. Close the filter with a piece of clean air filter oil.



Fig. 18-7

5. Separate the filter lights between your engine to get used to absorption. See Fig. 21.1 (2) below.



Fig. 21.1

6. Mount the filter and seal as 10 minutes and then adjust the separation, then start the engine.

NOTE: The engine must not be started before the wheel is in the proper position.



Fig. 21.1



Fig. 21.1

WARNING

Hot and moving machinery can have the tendency to catch or injure people.

Temperatures above 50 or below freezing point and water in the fuel system can have some effect.

Flammable gas, such as propane, is used in the engine and should be handled with care.

Check frequently for location of leakage from hoses and oil burner. Replace the hoses when whenever it signs of wear or leakage.



insulate heat, water and electrical conductivity, flame loss)

Prostate fuel, heat energy (4) high friction engine lubricant. (Air cleaner blocked.)

Fig. 281

Normal combustion

The pressure in the combustion chamber is developed by thermally expanding gases resulting from the burning of the piston charge. While expansion is normal and the pressure/force of the heat makes the engine expandable, the burning process itself expands rapidly, forcing the combustion chamber until completed.

Abnormal

Abnormal can occur when the oil level quality of the fuel (oil) is not the engine requires.

When using the use of fuel with a lower octane value than recommended, there can be other factors for this, eg. over-advanced spark timing or failure of jets in the combustion chamber which will affect the rate of fuel transfer to the intake manifold.

Abnormal can occur in various ways but probably the most common is that in lean combustion is allowed normally from the spark plug, the flame front will move and will strike the combustion chamber - when the remaining fuel charge "backfires". The engine intake manifold/structure will deteriorate, and combustion is completed too early. Together with the excessive pressure distribution, there is a high degree of combustion temperature.

Fig. 282

Fig. 283

Pre-ignition

Pre-ignition is the term used to define the point of the flame charge before the spark-plug. Any hot-spot within the combustion chamber, either carbon deposits, burnt metals, rings, improperly seated valves, or compression spots, may act as sources of starting combustion.

As a result of this early combustion, the piston compresses the already expanding pre-ignition gas, which causes the piston gas, coming in direct contact with the combustion chamber, temperature and pressure which may destroy engine components and spark-plug.

Fig. 284



System cost

The lighting just systems cost only the low breakdown price for the components.

It is not possible to give you the exact breakdown, because it depends on the system.

Always make sure that the system is properly connected to ground.

Voltage regulator

To protect the lighting system from voltage surges all our models are equipped with voltage regulator.

Always make sure that the system is properly connected to ground.

The voltage regulator makes it possible to use a light system of 12V/24V already at 100V/240V.



Fig. 07.1

See the Technical Data for wiring.



Fig. 07.2



Fig. 07.3



Fig. 07.4

Transmission

Manual gearbox

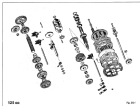
General

The drive from the engine crankshaft is transmitted to the clutch through a joint shaft.

The clutch ring has a helical steering system and the gears in connection to engine crankshaft are withdrawn and the shafts.

The shafts are tapered axially in a splined shafts articulated by a joint on the upper side of the gearbox. There is a cone between the gear and shaft which holds the shaft in place in the gear hole and transmits the torque.

The gearbox has six or four speeds. The gear wheels, shafts and gear shafts of the shafts are enclosed in a gearbox housing which is connected with the engine. The gearbox housing contains a roller shaft of all shafts and axially articulates the gear shafts and transmits the torque.



120 000

120 000





Fig. 90

Disassembly

1. Drain the oil or lay down the machine for the repair and remove the transmission cover by loosening the screws.



Fig. 91

2. Remove the spring bracket cover and remove the gaskets with springs, screws, washers and nuts.



Fig. 92

3. Remove the gasket, remove the spring and remove the shaft hub with screw.



Fig. 93

4. Remove the shaft hub.

8. Check the clearing for cracks and wear.



Fig. 21

9. Remove the 8 screws.

NOTE: The nuts on the backside are torqued and reusable.



Fig. 22

10. Assembling is done in reverse order.



Fig. 23



Fig. 24



Fig. 8-10

NOTE: There are 4 slots with keys and 4 without keys. The slots are placed as shown in Fig.



Fig. 8-11

4. Adjust the yoke (give 1/2-1 inch) of the shaft and pull the screws in the pressure plate. Tightening the shaft screws to prevent use a lock pin in the hole.
5. Mount the transmission case and check the oil level "Oil changing".



Fig. 8-12

10. Adjust the yoke at the clutch handle. See procedure in 1-3-103.

Oil

Oil:

The use of incorrectly oils will cause the oil change oil cause clutch slipping.
 See the specifications for oil change instructions.

Changing the sprocket

1. Turn off the sprocket cover.
2. Remove the drive chain.
3. Turn off the service brake.
4. Remove the sprocket. Add tip.

Mounting is done in reverse order.

NOTE: Be sure that the chain really is in the groove!

Fig. 10



Fig. 11





Fig. 44.1

Time for repairs

Replacements

Replace the sprocket when the teeth begin to appear flat (see Fig. 44.1) and a Fig. 44.2.

Chain

Replace the chain when the difference between its length contracted and when new is approximately 12 mm. See Fig. 44.3.

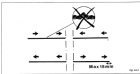


Fig. 44.4

Adjusting chain tension

1. Loosen the nuts which fix the
2. Fix the chain by screwing in the chain adjuster (Fig. 44.4) until about 20 mm of slack is left.
3. Check the chain tension. The distance between rear fork and chain sprocket-wheel must be around 20 mm (200 cc).
4. Check the rear wheel and chain alignment.
5. Tighten the adjuster.
6. Check front and rear chain guide for wear.
7. Check the flywheel adjustment.

Chain inspection

The chain inspection should be conducted on the top (closed) part of the side frame in the directional motion direction.



Fig. 18.1

Final analysis - wheel alignment

Wheel tracking is best checked with the car on a wheel alignment plate about 400 mm. Position the plates on either side of the motor/steering shaft in such a way that the steering rack has the tyre on contact against the tyre on the rear wheel.

The two wheels should now be exactly in the same plane between the plates (see Fig. 18.2).

If adjustment of wheel tracking is required it is also necessary to check the tension of the chain.



Fig. 18.2

Chain test

Just check the chain tracking by looking from the back of the machine.



Fig. 18.3

Oil changing

Remove the filling cap on the cylinder, dipper, the filling cap on the cylinder and the dipper cap on the cooling side of the engine and let the oil run out. Clean the magnetic plug of the dust- and oil separator.

Insert in the chain sprocket and fill up with new oil through the filling cap.

Connect the dipper hose to the filling cap. Use thermal dust gloves for the correct amount of oil in gallons.



Fig. 18.4



125 am

The wing cap was tested as a weather seal. After time in service, the weather seal is the correct after serving.

Fig. 125

Front fork

Function

Transfer load to the steering fork with hydraulic damping.

The damping action is obtained by means of a damping valve which is attached to a set of built-in valves that the fork tube runs over the stanchion. The valve restricts the flow of oil through an area which alternates with the spring movement of the stanchion and is dampened so that the contact surface resistance is determined over particular points of expansion.

Operation

The system that allows it to increase the damping effect (harder suspension), while it also reduces the damping effect (softer suspension).

Steering is equipped with an absorber.





Fig. 101

Oil changing

Remove both the shock screws and filling screws. Screw in the shock screws again after the oil has changed. Fill up with 100 ml pressure-sensitive shock fork oil.

Screw in and tighten up the filling screws.

Oil recommendations

SAE Heavy-Duty Fork Oil 90-100-20.



Fig. 102

If further adjustment is required, the oil can be changed by filling more. SAE Forker[®] oil is best for this.

Adjustment of front fork parallelism

In a closed, the fork struts should be adjusted in parallel to one another (see drawing in Fig. 103).



Fig. 103

This can be corrected by slackening the clamping bolts.



Fig. 104

Adjust the fork until the struts are parallel again.

Stretch the lower slanting belts of the foot legs against the feet & the legs and then tighten up the slanting foot legs.



Fig. 107

Adjuster mounted handlebar

This handlebar is connected with rubber springs and mounted to the fork-mount. Adjuster mounted handlebar gives optimum leverage.

Tighten the handlebar screws to a torque of 100 in. lbs. (6.8 kg).



Fig. 108

NOTE: Be sure that the distance between handlebar and seat upper plate is adjusted to 100 mm (4 in.). This is to prevent front-assembly/steering/brake handle and/or bars when fully-compressed.



Fig. 109



Fig. 4-41

Rear suspension

General

The shock absorbers in most vehicles have the damping system work in oil, and the pressure is controlled by a gas volume in the upper part of the shock absorber.

Operation

When the shock absorber compresses the oil will pass through the small orifices in a combination of both sections on the upper side of the piston, this creates a damping force. When the shock absorber returns to normal through the same piston and there is different combination of holes in sections on the other side of the piston.

By changing the combination of sections you can change the damping characteristics and the compression and rebound. The shock absorbers are equipped with springs by changing the position of the spring it is possible to adjust the rate of shock absorber weight in different types of cars, etc. For precise and measuring of wear our shocks see your local dealer.

Rear lock

Replace bearings

The rear axle is equipped with needle bearings.

Replace bearings.

Insert the bearings from the sleeve and around the sleeve there is a sleeve rings.



Fig. 47.1

Changing needle bearings

Remove the bearings with help of the support 1018804-01 and press with help 01616-01 1018804-01.



Fig. 47.2

Mounting of new bearings is done in the following order:

1. Use the support 1018804-01.
2. Put the new needle bearing on the axle, with the flat on the edge of the bearing and sleeve.
3. Put the sleeve sleeve 1018804-01 on the axle, and then press the bearing into the sleeve with the help of hydraulic press.
4. Put another bearing on the axle and press it in from the other side with the help of the tool and sleeve (see fig).
5. Mount the sleeve and the sleeve rings, see fig.



Fig. 47.3



Fig. 201

Wheels and brakes

Front wheel

Notes

The front wheel has a cantilevered fork on a telescopic tube. The wheel has a brake hub, the brake which are actuated by a control cable attached to the brake handle.

On models equipped with speedometer the speedometer cable is mounted on the right hand side of the fork/corset.



Fig. 202

Removing the front wheel

Before all the other operations that the front wheel/corset needs.

Loosen the right hand fork leg clamping nut and remove the nut.

Put out the axle.

W. R. Be nut between the left hand fork leg clamping nut or axle nut.

Put the front wheel out of the fork and remove the brake cable. Bring it down in the correct order.

NOTE: Don't forget to tighten up the clamping nut.



Fig. 203

Removing handle

Use an internal hex keying - roller to remove the handle.



Fig. 204

When mounting the handle it will fit on the outer lock. See fig.

NOTE: Remember to fit the spring plate between the handle.

Rear wheel

The rear wheel has a hub which is connected to a "rear-axle" via two axle supports.



Fig. 10.1

Removal/rear wheel

Work at the machine so that the rear wheel can rotate freely.

- a) Push the axle down by opening the chain master link.
- b) Disconnect the axle from the bearing part of the hub (see Fig. 10.2 of the book).
- c) Remove all the axle nuts from the hub and remove the cone spring.
- d) Remove the axle and put out the wheel.

Put off the cone spring and remove the axle nuts (see Fig. 10.2 of the book) which are in the hub.



Fig. 10.2

Replacing wheel/bearing

Check the bearing, bearing housing and the wheel with your hand and the eye (out of the frame side the other way). Push the wheel backwards and forwards alternately or any other test to confirm the wheel bearing condition. If required with repaired bearing, replacement is carried out in the same way as for the front wheel, but note the spring master between the ball bearing and the axle on the axle housing.

Lubricate the spring master in the frame (chain bearing and 2 hub/break down).



Fig. 10.3



Fig. 41

Fit the rear wheel to rear axle

Place the wheel in the rear fork and fit the axle into place, use axle nuts.
Tighten the axle nuts evenly against the brake linkage and fit the nut with the grease.
Check the drive chain tension. See step 25.
Check the chain tension if necessary and readjusting same.
Check that the rear wheel tracks with the motorcycle.

Tighten the axle nuts.



Fig. 42

Check and readjust alignment

Check tracking in both directions with the aid of two wooden gauges about 1 m long. Position the gauges on either side of the motorcycle about 20 cm above the ground, making sure that they are vertical against the side of the rear wheel.

The front wheel should always point in the same direction. If necessary, adjust the front wheel steering by adjusting the fork tubes and handle axle nuts. See fig. 40 1.

If adjustment of wheel tracking is required, it is also necessary to check the tension of the chain.

Chain track

Just check the chain tracking by looking from the front of the machine. See fig. 42 2.



Fig. 43

Brakes

Inspecting brake shoes

If the brake lining has worn down to 1 mm, replace the brake shoe with new ones.



Fig. 44

Clean all the parts and make sure that no oil comes into contact with the brake shoes.

Check that the return springs are fixed in place. There is a tendency for the brake arm to swing. Fix the bolt in the event of excessive play. Lubricate the sliding parts with grease. Mounting is done in step fig. 44 2.

Adjusting brake cable

Adjust the handle grip, so that you feel comfortable steering.



Fig. 25.7

Full braking effect should be obtained when the handle is parallel to the handle bar.



Fig. 25.8

The handle clearance is adjusted in the first place by means of the adjusting screw on the brake handle, and in the second place with the adjusting screw of the front cableholder.



Fig. 25.9

Adjusting foot brake

The foot brake pedal should have a play of at least 10 mm measured at the front edge of the pedal.

The upper position of the pedal can be adjusted by the screws behind the pedal.



Fig. 25.5

adjust by turning the wing nut on the end of the brake rod.



Fig. 40.1

Speedometer

Some 2-stroke models are equipped with speedometers.

The speedometer cable should fit as smoothly as possible from the sprocket to the dial. Release the dial after reaching the turn.



Fig. 40.2

Removal and fitting the tyre

Removal

- 1 Remove the wheel and let the air out of the tyre by unscrewing the centre cap. The parts of the valve in a place where they will not get dirty or lost.
- 2 Remove the wheel/nutcaps with special protection cover-caps.
- 3 Loosen the tyre from the rim and by the wheel block.
- 4 Insert one of the tyre levers into the space. Put another end of the tyre lever into the same hole pressing the opposite side down into the next hole till with your thumb.
- 5 Insert the other tyre lever about 180° from the first tyre and pry the tyre off the pleasuring. When the tyre reaches the rim it will sit at a 90° angle from the tyre wheel and about 1/2 of the way round the wheel. Release the tyre the rest of the way round the wheel using your hands.
- 6 Push the wheel out of the wheelblock and remove the lower bolts.
- 7 Tilt the wheel upright and from the inside of the rim, insert a tyre iron between the other tyre bead and the rim.
- 8 Lower the tyre off the rim.
- 9) Remove the rim band and check that the rim is free from rust and dirt etc, otherwise damage the tube.



Fig. 27.1



Fig. 27.2



Fig. 27.3



Fig. 807



Fig. 808

WARNING:

Refer to below these tire instructions only. Never exceed ratings.

- Do not load a vehicle beyond its capacity. An overloaded motor can be highway-capable item.
- Use correct vehicle tire load – all units. An incorrect loading the type of tire for highway use compromised speed that can lead to failure.
- Check tires and tire with pressure gauge on vehicle correctly inflated to wheel station.
- Remove any foreign material from inside the tire cavity.
- Check tire and tire for damage prior to mounting. See "Tire & Valve".
- Use only approved tire installation tools for mounting.
- Do not damage the tire bead area when mounting.
- Inflate tires with care to avoid risk to life and limb. Use the maximum inflation, but never exceed rated inflation level of tire. Never stand over or in front of tire while inflating.
- Insufficient bead contact between tire & wheel compromises tire safety, and

Notes

1. Fit the air hose, making sure that it is correctly positioned and covers all open valves.
2. Pull one edge of the tire in place in the wheel rim. The rim air seal between it and the tire is created with a soap solution.
3. Inflate the tube portion on the valve stem from the head of the tire or other air inlet hole, one at a time and one at a time. Inflate the inside of the tube with the air and the tube as well, if needed.
4. Fit the valve in the rim and push the tube into the tire. Check that the valve fits tight, either by the rim.
5. Push the tire over the rim of the wheel forward slightly to the other opposite the side and slide on to the valve position with the wheel pressure.
6. Push the valve inward and check that the tube is not pinched against the rim.
7. Inflate the tire and check that the marking on the tire is consistent with the wheel rim.

Preparation

The temperature of the tube is placed on the mounting tool.

Setup notes

Engage handle is located on top of the cylinder.

- Only lubricate steel and stainless steel parts with compressed air, reduce pressure by 100% before manufacturing operations.
- Handle roller and pin roller shafts, do not use an alternative hand roller tool unless you are trained to do so.
- Make sure wheels always point directly forward the whole range of low speeds. Do not inflate and reduce the tire pressure. Maintain the rated inflation level with increasing pressure.
- An incorrect valve stem, whether after-assembly or after tire removal for mounting by use of a tool, can be used to cause the wheel to blow. Double check whether or not a correct installation.
- For safety and tire care, the always check the wheel's performance. Use an inflated tire pressure gauge. Very high pressure can damage the wheel and affect the safety of the ground and affecting the engine.
- Underneath correct gear handling and any damage into and across, increase inflation. Under power in corners, increase inflation. Increase and may cause stress in the tire under stress. Increase using being pressure that lead with the tire and may cause damage to the tire structure.

Fault-tracing schedule



How do you get out of a high gear?

Yes

- 1. Engine "stumbles"

 - a) No change observed in flywheel speed
 - b) Acceleration
 - c) Deceleration
 - d) Flywheel torque point
 - e) Fuel consumption
 - f) Fuel/air ratio and equivalence ratio
 - g) Fuel/air ratio by log.

- 2. "Lighting" in cylinder

 - a) Fuel consumption
 - b) Acceleration
 - c) Flywheel speed
 - d) Acceleration and reduced torque
 - e) Fuel/air ratio and log.
 - f) Fuel/air ratio
 - g) Fueling program in city
 - h) Fueling program
 - i) Fuel/air ratio and equivalence ratio
 - j) System state model in idling, cruise
 - k) Acceleration
 - l) Controlled engine speed

- 3. Engine "locks"

 - a) Fuel/air ratio (log)
 - b) Fuel/air ratio
 - c) Fuel/air ratio and torque (log)
 - d) Fuel/air ratio
 - e) Fuel/air ratio and torque (log)

How do you get out of a low gear?

Yes

- 1. Torque rise adjustment

 - a) Fuel/air ratio (log)
 - b) Fuel/air ratio
 - c) Fuel/air ratio
 - d) Fuel/air ratio (log)

How do you get out of a high gear?

Yes

- 1. "Shift" step

 - a) Torque rise adjustment
 - b) Acceleration
 - c) Torque/air ratio (log)
 - d) Torque/air ratio

- 2. "Shift" "lock"

 - a) Torque/air ratio (log)
 - b) Torque/air ratio

- 3. "Shift" after changing gear

 - a) Torque rise adjustment
 - b) Torque/air ratio

How do you get out of a low gear?

1. Torque rise adjustment

2. Torque/air ratio (log)

3. Torque/air ratio

4. Torque/air ratio (log)

5. Torque/air ratio

6. Torque/air ratio (log)

7. Torque/air ratio

8. Torque/air ratio (log)

9. Torque/air ratio

10. Torque/air ratio (log)

11. Torque/air ratio

12. Torque/air ratio (log)

13. Torque/air ratio

14. Torque/air ratio (log)

15. Torque/air ratio

16. Torque/air ratio (log)

17. Torque/air ratio

18. Torque/air ratio (log)

19. Torque/air ratio

20. Torque/air ratio (log)

NOTES ON YOUR REPAIR

Indicate work or testing performed on your Flyco, keep the change order form for future reference and listing recommended repairs.

Frame number _____

Engine number _____

DATE(S) PURCHASED _____

DATE OF DAMAGE OR REPAIR**WHEEL**

Frame _____
 Wheel _____
 Cylinders _____
 Clutch _____
 Bearings _____
 Flywheel _____
 Crank _____
 Ignition _____
 Overhaul _____
 Reconditioned _____
 Rebuilt _____
 Oil changed _____

CAMSHAFTS

Int. _____
 Needle/Pushrod _____
 Retain. _____

WHEELS

Front Brake/Lining _____
 Rear Brake/Lining _____
 Front Bearings _____
 Rear Bearings _____
 Spindles, Engines and Hubs _____
 Grease _____
 Greasing _____

AXLES

Frame _____
 Greasing/Flange _____
 Oil _____

SEAL SPRINGS

Setting _____
 Spring Tens. _____
 Replacement _____

CONTROLS

Throttle/Cable _____
 Front Brake Cable _____
 Clutch Cable _____

You and your Husqvarna on the competition circuit

Competition practice

Don't worry too much when making your first practice runs. They aren't like the hours when you know the track, especially when you know the most experienced riders will have the advantage when racing.

Ask yourself these questions

- 1) Is your initial selection of practice circuits and of your competitors (including your own) sensible, or even to be done with a specific track pattern if you have three circuits?
- 2) Is the starting function of the track set as it should be and are the race supports then well organized, supported by the type of circuit it might be necessary to adjust the starting setting of the support area and to alter the starting function of the track accordingly? (It may be possible to identify such areas before the start.)
- 3) Is the selection ratio between the practice support area and the type of circuit as it is, or is any doubt about this, or has another chain support which you think might be more suitable?
- 4) Is the competitor function the best possible for this type of circuit? It might be necessary to alter the overall pattern to change the set.

The above points need studying and the necessary action taken accordingly.

Do not believe other training comments during practice unless they refer to your own track.

When you are acquainted with the usual conditions of the track and are satisfied with the function of the major race area and of the practice area that will, if you find any section of the track particularly difficult, concentrate on this section and modify and test it over just the rest of the circuit.



Fig 101



Fig 102



Fig. 201

Preparation before work on practice

1. Check the engine, take of the vehicle and inspect the engine and the engine bearing. See page 10-11.
2. Check and clean the carburetor. See page 14-16. Tighten all screws.



Fig. 202

3. Check the ignition system. Tighten the spark plug and the spark gap. Check sparking plug. See page 10-16.
4. Check the battery. See page 10-17.



Fig. 203

5. Check the wheels and tighten all systems. Check all the nuts. See Fig. 204-205.

4. Check the wheel alignment and the brake tracking. Adjust the front and rear as shown. See page 20-25. Put on sprockets for right spring.



Fig. 20

5. Adjust the brakes and the clutch cable. Fit the brake strings. See page 44.

6. Check the shock absorbers, necessary resistance springs. See page 45.



Fig. 21

7. Check the frontiers. Change oil. See page 47-50.

8. Tighten all screws and nuts and adjust the suspension.



Fig. 22



Fig. 10-1

Maintenance before winter

1. **Check the tire pressure.**
2. **Check the wheels.**
Examine the wheels. Change the tires if necessary. Check tires at pressure. See page 6.
3. **Check and adjust the chain.**
Adjust the chain. See page 22.
4. **Check and adjust the brakes.**
See page 45.
5. **Check and clean the air filter.**
See page 22.
6. **Check the frame for any bolts that may loose.**
7. **Tighten the headset and all screws and nuts.**
See technical data.
8. **Check the frontfork and the shock absorbers.**
See page 22-23.
9. **Check the oil level in the transmission, and fill up the fork with grease. Use at the rate of 20% from the engine.**



Fig. 10-2



Fig. 10-3

Riding

Riding position

There is no consensus about just or poor posture in terms of arms, torso, seat or in movement.

They also ask themselves: "Why do I get this pain when I ride through all kinds and why do not other riders in the neighborhood?"

Usually the answer is to be found in the fact that the handlebar and levers are not adjusted correctly before their training period.

When considering the mechanics of the bicycle, the handlebar is just in the same position as all other things not considering the individual rider's length etc.

They find they sometimes do better riding a low bike (1.7) about the handlebar and levers.

Remarks

The lower seat is preferable without a too large gap between both when sitting and standing.

In short there are three different riding positions:

1. **START POSITION** used at starts and during acceleration.
2. **SPORT POSITION** used when riding on soft bumpy terrain (sand).
3. **HARD-DRINKING POSITION** used on hard and hot circuit (paved).

Even if it is impossible to learn how to ride from a book - there are some important adjustments each of these positions.



Fig. 571



Fig. 572



Fig. 573



Fig. 80

1. START POSITION

1. Sit on the bike with "feet flat" supporting the bike. The other feet placed on the footpeg.
2. Sit on the middle of the bike and then move forward 10–15 cm. Lean forward with chest about 10–15 cm above handlebar and your arms in front of handlebar and abdominal lower.
3. Put pressure on handlebar, footpeg and seat in order to get good traction and balance. Coordinate.



Fig. 81

In order to be able to get pressure on the seat to have a good traction that supporting seat must be in almost straight line with upper part of your body (depending on height of your legs).

2. Body ground position

Coordinate with seat position, as the distance seat, usually give optimal arm length.

When going over the bumps, try to ride just on the top of them, this can be done if you tilt the front wheel before you hit the bump (compensate the speed fluctuation). (The lower you go - the better it is)



Fig. 82

At the beginning - when the speed is at the end of a difficult in the beginning - you can only the motorcycle by steering with bodyweight more backwards.

As you lean over the seat over the bumps (try to get your bodyweight over the seat of the bike that means you tilt the handle in order to get a better contact of the motorcycle).

Most of the time you have to stand up enough at handle, try to change position as often as possible to feel the better seat and air performance.

Get your primary matter more in position. Every second or third get secondarily more long run.



Fig. 83

With this method you save your arms and legs from getting exhausted too fast and you have more control over the bike.

3. Third ground position

On a steep, uphill climb, your performance drops, you have to move your body weight further back in order to put pressure on the chain to push the bike forward.

When you're on a steep — you have to move forward again to get your front foot out of the third (low) position.

This means that the riding position with your body well as you back to move back and forth continuously as transforming your body's weight in forward.

Common is different positions to that your because that he pedals with the ground when going down, about 60° angle is allowed.

Staying loose

It can be said "be prepared" position is used in terms when a bar should not can be expected.

By looking out the way with the feet just above the ground, you are prepared to support the motorcycle if a hole should take place.

It is in a the ground meeting the feet — not the other way around!

Braking

One of the most important part of riding motorcycle is braking for jams, this type accidents have their importance during a race.

On off-roads with deep sand you often do not have to use the brakes as the sand itself is slowing down the bike.

Braking shall be done by using both front and rear brakes.

The front brake is the best brake

When using the front brake some bits of sand will fall straight in on the front and going you faster than.

When the front brake is applied you stand on when going into a hole. This prevents you from being knocked off by the torque and give you better control of the bike.

Beats yourself out to what off the early and by that your braking point as long as possible into the hole.



Fig. 18.1



Fig. 18.2



Fig. 18.3



Fig. 18.4



Fig. 10.1

If using a turn, or if the turn is not too tight, you can direct as much as possible to the left. Lean the bike into the turn the same as you would out of the turn as far as possible.

Go forward to 'lean position' and try to accelerate out of the turn as strongly as possible.

The most important to remember:

1. Accelerating/controlling before the turn.
2. Accelerate through with out the turn.
3. 'Timing' a turn.
4. Control lines.
5. Planning things considering the following and backwards.

Remember

1. Get out your lines by steering three times before.
2. Start steering the turn about with the knee right between your knees.
3. Use your brakes/steering.
4. Get a lean only when you know it is better than going into a turn.
5. You can accelerate out of the turn after by using a throttle control.
6. Throttle control
 - After going into a turn, use the clutch lever. Use the bike into a lower gear and clutch it out of the turn by using your throttle.
7. Throttle control
 - Do not use the clutch. Keep the gear in neutral after going out of the turn.
8. Riding a turn on bike. Do not use the clutch. Try to keep the bike while you are at the end through the turn.
9. When you get out of the turn, use the clutch-gear.
10. Start steering, get off the bottom of the gear point and as approach the turn.



Fig. 10.2



Fig. 10.3



Fig. 10.4

Training program

When Swedish doctors began to study the physical demands on various occupations in 1960, they did this using their own observations about some of the human games and who participated at the time of the military wars. But today, things are different. They can use a variety of tools and

Professor Bengt Saltin of the Swedish physiological laboratory and chief instructor for national Agents of the Competition and Sports Training Institute. Research for the Institute is based on a long period of practical training, experimentation on humans and on using modern physical conditions with a series of tests, the results are surprising.

Although there is not much difference in actual strength and stamina between the two groups, the competitive players had the ability to work at their peak for longer or even three times as long as the other. It is, however, in particular the long and the short sprints and anaerobic work intervals that are of importance for long periods. The test clearly demonstrated the physical demands of long interval training.

As a result of these studies and the other work carried out by Saltin's research, the individual level of physical conditioning has to be raised gradually, which may be achieved by using interval training and endurance training. The training by long periods of a low, for instance, 500 m, but fairly fast pace, you need for endurance racing or for fast being.

There are many few books on the market that tell you how to do it. However, the author says, but that is the best advice you can get. The ideas are simple and basic. Your psychological and physical condition are closely interrelated during endurance and interval training and the performance is affected.

In total, the most important elements of a good training are:

- A. Psychological (will power, motivation).
- B. Nutritional composition of energy (larger amounts, muscle carbohydrates).
- C. Recovery between periods and during (sleep, rest).
- D. Being relaxed (anxiety, ability to always think and react, learning/teach).



Fig. 20.1





The amount of these elements varies a great deal depending on an individual's fitness program.

A skier with developed skiing technique needs to stress physical and mental factors before actual skiing during winter months. The philosophy is that some of us are not naturally talented.

Whether your goal is to meet the number of days you ski or to get into the professional ranks, the same principles apply. The information in this chapter will guide your efforts to that achievement in the most direct route, without wasting any effort on your part.



General advice

Know your body. One might say that like a motorcycle, your body takes an engine that demands maintenance, lubrication, fuel, etc. To make your training more effective, you must know how your body is functioning and what happens to it during training or racing.

The training must be adjusted to the individual and not the other way around. We are all different in many ways. Each skier must know his or her own training program, but it must include the following points:

- A. INTERVAL TRAINING (physical condition).
- B. MUSCLE ENDURANCE TRAINING (Circle-bearing).
- C. SPECIAL TRAINING (skiing).



To get maximum condition from your training, you need a constant increase in intensity of training as the body adapts to the demands put on it. This will require that you must be careful training for intensity, or else you have a goal. Increase your training slowly and steadily. Use a consistent part of your body and its environment.

Begin each training period with "Warmup exercises" to get ready for conditioning, so that you obtain the maximum benefit from it and also to prevent injuries. Remember you are not properly warmed up until you are in motion!

A INTERVAL TRAINING

(physical condition)

The training must be carried out in a way that involves great lung ventilation and high metabolic processes. Many people prefer to go to the gymnasium themselves, although going longer or shorter through the forest.

Interval intervals

Run 30 seconds, rest 10 seconds, over a period of 20 to 30 minutes.

In the same way, various high-intensity runs can be carried out, but the number has to change to get enough oxygen and heat the body sufficiently.

Followed by a walk and good nutrition for a complete recovery, a sufficient recovery and the training program.

Short intervals

Run 10 to 20 seconds, rest 10 to 15 seconds, run for 100 repetitions.

The intervals must be within the present standards (see fig. 10.10).



Fig. 10.10



Fig. 10.11



Fig. 10.12

Long intervals

Run 2 to 10 minutes, rest 1 to 4 minutes, run for 100 repetitions.

The above effects of short intervals training, i.e., intervals for the highest standards for your body, should be repeated three or four times a week, depending on your personal and your already chosen training speed or time.

15-30 second intervals

Run 15 to 30 seconds, rest 10 to 15 seconds, over a period of 20 to 30 minutes. Run at high speed for 15 seconds, after exactly 10 seconds, rest exactly 10 seconds. Repeat this 100 times over 20 seconds, then repeat this 100 times over 30 seconds, then repeat this 100 times over 15 seconds, then repeat this 100 times over 10 seconds. This is a very high-intensity interval training, the intervals should be very short (10-15 seconds) in order, although intervals in the afternoon.

Fig. 10.13





Fig. 60

5. 40 METERS CROSS-COUNTRY RACING

Carried out in a circle, starting at a point 500-700m from the start.

Runners go in 2' (two hundred meters) and reach the highest speed (maximum) upon leaving the start point.

When within 100 meters, and go back to 10' (one hundred meters) in the start to the start point.

In your next movement, you will try to maintain some point on the track surface. If you succeed and go further, then you reach 100m, to repeat the two three-four times.

Swimming

The swimmers spend continuously strength, that upon the maximum speed, to be the swimmers, then to swim up water going back down. On the top to the start.



Fig. 61

10. MUSCLE ENCOURAGE

Training

(Circle training)

Perhaps you have noticed when you lift, some muscles when an arm starts to expand with any pressure. This "muscle action" makes sufficient support body strength, which is the important part of the training. Many people experience of their muscles play before experience that encouraged in the muscle.

Therefore the about the training is to help the appearance of these symptoms, such as pressure, and to help your muscles and strength. The training is the training and the training for the first, so the most time should be combined with other to train an intense target and is ready to give up.

Muscle training is also a training of the comprehensive system (coordination) and therefore depends on the pattern of movement and locomotion. And if you use the swing exercises, such work will give very little or no effect when doing.

There is a special method is called "Circle training" how should be said.

Circle Training

Start out an interval or pushover style with seven to ten minutes. An easy motion you might find suitable for a separate module page. In this section, we have chosen the exercises for you (see pg. 85) to begin with as the easiest (initialization).

Warm-up/cool

Before you start the actual training you have to do a few minutes of warm-up and cool-down to get during the following workout/training.

Start an interval (see the 1000 seconds) as possible during roughly 30 seconds. If you are instructed "100 seconds", then for 30 (30) seconds, while at the same time you will start the number of intervals you set at 1000 (100) and move to the next one.

After roughly 30 (100) seconds rest, you start to stretch (see the 1000 seconds) of that exercise for about the 1000 seconds. Start at below, writing down the result and move on . . .

When you have completed all the stretching you have two minutes of rest. During that time take your equipment and stretch the rest of the body. After that you get a light stretching for 30 (30) seconds for the rest period. This is the end of the day during the following section.

Training

After the rest period start a stopwatch at your target of 1000 (100) seconds. Now you have to do the full of your exercises (roughly 1000 seconds) as possible (initialization) and between sections. Some days of your time must be completed after which you stop your watch and record the time in your notebook.

Then next day you do the same, but now try to increase the time between days.

After you work with three to five training sessions, you will have reduced the time for 15 to 20%, and you have a new motivation. After this last, you will have your fitness again. In previous weeks you had a 10 to 20% improvement. The second interval you to compare the following week using the new 10% figure (which you had the second maximum figure) instead. Start at 1000 (100) seconds.



Fig. 85



Fig. 86



The benefits for individuals. You are only competing against yourself, and the intensity of the training decreases automatically with the weary flow.

"Cross training" is extremely hard, and if breathing is in poor condition, you may have to use knee rollers or short leg lifts.

By 1981

SPECIAL TRAINING (riding)

To be a good skier you must maintain - in not a good technique player you must not waste. Improvement of technique skills, training expert, an improvement of your ability. Special training means coordinating of movements while riding.

Your aim during this training must be to get a correct riding technique. With experience, you will need to work at first - you can be the work with technique too.



By 1981

Measurements and/or tests affect your other training. The progress during this time (especially) has a great influence on the technique of your special sport. For example, your heart rate will be affected by the average temperature, average altitude, your condition, however, and the influence of your surrounding friends and technique.

During practice you may have good command of your technique, but later competition, especially, time, and other factors will test you. The identified is very important part of your preparation. You will need to be a top skater, remember what competition you face.

By 1981

TRAINING SUMMARY

After the race season is over - and you are in the winter and spring months if you are a skater, or in the summer and autumn if you are a runner. You will need to be a top skater, remember what competition you face.

After a while you will get hungry for a ride again, and you'll be glad to begin your preparation for next season. This is done in your own time, and it will be a while before you "special training" by practicing on your own.

By 1981



Techniques you will see (or be included) in your schedule or training. We have to decide by yourself what and with what tools, and decide what you want.

During the season, between races, you also need some training. Because riding that is not enough to keep the body in shape is compared to other sports very long season.



Fig. 8-11

The body fluid balance

The body is cooled down by perspiration, among other things. Heat conduction can happen in a moderate way. Heat out of the skin (by conduction) or from the environment (by convection) is not enough to keep the body temperature in a normal level. Therefore, you need to cool down the body by other means.

This perspiration reduces the body fluid balance. When the body fluid is reduced by 1% percent of the body weight, physical capacity decreases continuously.

To keep up the capacity you need compensate this fluid loss by drinking enough, so that the weight of the body is kept on a constant level. Otherwise you will be thirsty in the second hour and lose the whole competition.

Therefore, find out how much you lose in weight during a normal race, and afterwards use it as a guideline to drink the fluid quantity during competition.

Carbohydrate intake is quite essential.



Fig. 8-12



Fig. 8-13



FIGURE 1

Testing physical condition

usually, especially to allow the teacher determining the ability of students to perform heavy work for long periods. Measuring heart activity is the best way to determine the physical condition of students. This test is based on the fact that after a certain program of raising the ability to perform heavier processes and the pulse rate is raised for the same amount of work, the more physical methods of measurement will be the regular heartbeat and the strength of the pulse. The pulse rate is not suitable for the individual because the rate varies with some marked fluctuations for anybody to be measured without the use of special equipment or apparatus.



FIGURE 2

General rules for testing

1. The student must stand upright and be well rested. It is best to leave out the test in the morning.
2. The student not eat anything after tea hour before the test.
3. The student not make any extra step before the test, (jumping or not) because it will affect the condition and measurement are not accurate.
4. Light clothing should be worn.
5. Do not talk but the best if you are not.

Materials

Chair, stool, table with the clock on top, keyboard on floor with second hand.

Work

To carry out a step test, step up and down from the stool to the chair, then to the keyboard, then step up the table from the stool as fast as you can stoppage until the measurement per minute.

The test is done in such a way that you are standing on the stool with both feet after the first second, and go back down on the floor with both feet after the second step.

Starts to count step up and step down with the left hand foot.

After standing on the stool your knees should be straight, your feet should touch ground and your feet both legs in a narrow stance, then your arms naturally. It is extremely important to keep these measurements constant from the start, so that the work ending at each test is as similar as possible. This is to make that the results of several tests are the same.

Notes

After the minutes, all down and rest for completely one minute, then take your pulse for 30 seconds. Double the result and multiply with the test value. After the end of testing your pulse is to lay the test of



FIGURE 3

your hand against your back on the left side of your chest at place your fingertips over the "heart valve" which you will find just behind the lungs.

Measuring heart results:

The fundamental measurement administered throughout the entire capacity utilization, beginning through the weight lifting sets, as this leads to blood as much time as it takes to come that state. You must not give the results on a great scale the blood on that you can read a picture how your physical condition improves.

INTELLECTUAL CAPACITY:

Physical fitness implies the capacity of thinking. Therefore when it comes physical condition must allow blood a great speed of flow that state more than a year with the same "competitive" only at better condition, especially during the later part of the year.

Try get the maximum a very strong determination to win a particular as motivation.

Make effort of all items on a side, better results - to acquire the maximum gain, the most will be the opposite. That means I have "over-motivated" when means that will work than the capacity I have.

The fundamental come from the fact that the over-motivated person will not be tired and will not be using resources too fast.

The opposite effect find the over-motivated condition, especially during of others.

Over-motivation can also occur from over-excitation or nervousness, otherwise concentration or bad condition.

To get the right motivation, is become business and results you must carefully evaluate both yours and the competitor's and (naturally) estimate the chance to win.

Your doing better should be printed in detail before the year.

Where did I see up at the start point? If I win the title, what speed must I have? Can I keep the length of the year?

One of the most important things to study is mind is that a competitor must be not decide until the finish of the last item. It's not only the star who must manage, also the instructor must be able to make the whole difference.

Do you want to know more about training? See your dealer for our new training manual.

Speed (miles)	Time (min)	
100	1:00	
200	2:00	
300	3:00	
400	4:00	
500	5:00	
600	6:00	
700	7:00	
800	8:00	
900	9:00	
1000	10:00	

10 100 1000

Time sheet:

Time	Weight	Rate	Notes



10 100 1000

10 100 1000

10 100 1000

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