

PANDROL

REF 42121010

OPERATION MAINTENANCE MANUAL

ABRASVIE RAIL SAW HC355 WITH VIGNOLE JAW (REF : 14221031)

ABRASIVE RAIL SAW HC355 WITH UNIVERSAL JAW (REF : 14221032)

ABRASIVE RAIL SAW HC406 WITH UNIVERSAL JAW (REF : 14221034)

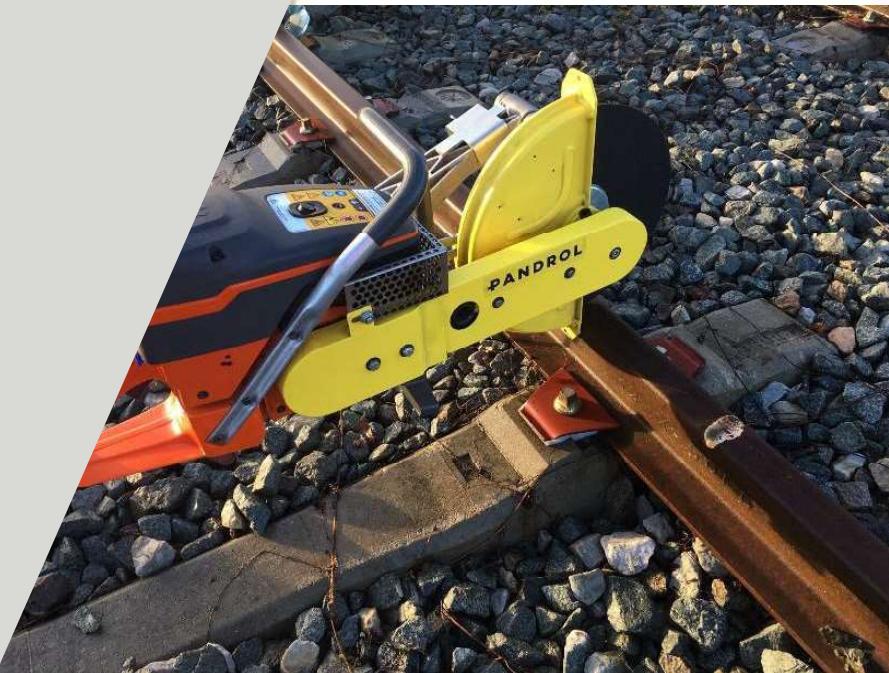
ABRASIVE RAIL SAW HC355 WITH SPRING ARM JAW (REF : 14221035)

To be used with a 14 and 16 diameter cutting off disc, boring ø 25.4 mm

ABRASIVE RAIL SAW HC305 WITH UNIVERSAL ARM JAW (REF : 14221036)

ABRASIVE RAIL SAW HC355 WITH VIGNOLE ARM JAW (REF : 14221037)

To be used with a 12 and 14 diameter cutting off disc, boring ø 22.2 mm



Partners in excellence



SUMMARY

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I - SAFETY LABELS EXPLANATION



WARNING ! The machine can be dangerous

Careless and incorrect use can result in injury to the operator



Read carefully the operating manual instructions of use and make sure you can understand them before using the machine.



WARNING! Pay attention to the turning parts of the machine.



WARNING ! Sparks can cause fire in combustible materials such as petrol, wood, dry grass...

II - GENERAL SAFETY INSTRUCTIONS

Précautions :



The rail saw machine is specially designed to cut rails and all other uses are excluded.

In case of any unauthorised use PANDROL decline his responsibility.

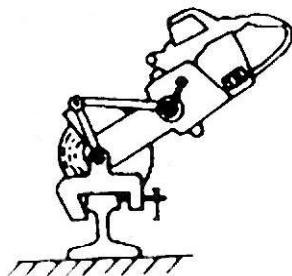
- Never start up the rail saw until you have read and understood the directions for use.
- The user must always work with clean equipment
- Only authorised operators may use the rail saw machine
- Never use the rail saw when you are tired or under influence of medicines, alcohol or substances which can alter your sight, dexterity or appreciation capacity
- The operator must respect the regulations, procedures and particular applicable orders in effect yard
- The rail saw unit must be handled by a single one operator and be held with both hands to drive it with accuracy and safety, careless use can turn it into a **dangerous tool**
- **New user :** WARNING ! operate the rail saw unit require a special practical training
- Use and all maintenance operations must be achieved by qualified staff
- The operator must wear the protective clothes necessary to the grinding operations : goggles, leggings, gloves, etc...
- Only one user can handle and operate the rail saw machine
- The operator must ensure that no one can affect his work (people, animals, flammable material, buried cables and wires). Sawing operation can start when the working area is free from any obstacle
- Under no circumstances the original design and configuration should be modify without approval from PANDROL
- To work safely the operator must have a firm foothold and a good balance
- If sparks are directed (directly or not) towards a flammable material (shrubs, culture...), place a screen stopping any incandescent particles to avoid any fire
- The personal protective equipment may be necessary! (Refer to the manufacturer's manual, "protective equipment" chapter)



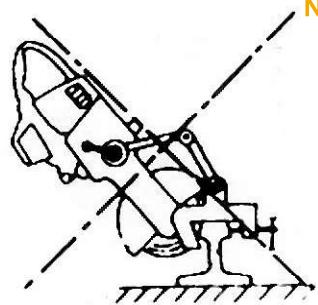


During sawing operation never overturn the rail saw, in this position the safety guard does not protect correctly the operator and sparks are directed upwards.

YES



NO



- Before each cutting, ensure the cutting wheel has the appropriate characteristics according to the expected type of work and that it does not show any signs of damage (cracks or splits), if the cutting wheel does not meet any of these controls it must be rejected.
- Safety measures to be taken when filling up with petrol :
 - **DON'T SMOKE**
 - **DON'T REMAIN NEAR A NAKED FLAME**
 - **DON'T SPILL ANY PETROL OUTSIDE THE TANK**
- If some petrol has been spilled, immediately clean the machine and move it by a minimum of 5 meters before any starting up
- If clothes have been damped by petrol, change them immediately
- The petrol mixture must be stored in drums, true to regulations, well closed and labelled
- **WARNING :** When engine stops running, the grinding wheel continues its rotation for several seconds
- Do not use cutting-off wheel which maximum rotation speed stipulated by the supplier would be inferior to the maximum rotation speed of the rail saw itself, i.e.
 - = 4 700 rpm or 100 meter/s for a 406 mm diameter cutting-off wheel (16")
- Use only strengthened type cutting-off wheel
 - resinous binder
 - at least two layers of strengthening canvas
 - according to **NF EN 12413 NORM**
Disc approved by the railway network)
- Stop the engine before replacing the wheel

- Never use damaged wheels
- Every time a new cutting-off wheel is fitted or reassembled, let it run light for 30 seconds. During this test all the staff must be kept at a distance with the exception of the user who must hold the machine in such a way that he is outside the wheel rotation area and away from the safety guard opening side
- Measure the wheel rotation speed at regular intervals and without fail every time the machine is repaired
- To prevent the wheel from slipping during sawing operation check that the flanges are tightened
- Only use cutting-off wheels which show a bore corresponding to the wheel support shaft diameter
- Check the safety guard good condition, its positioning and tightening before branding the rail saw into operation
- Replace the safety guard when a wheel has burst
- Store the cutting-off wheels in a dry place as recommended by the manufacturer of discs

III - DESCRIPTION

A rail saw in order to work consist of three elements

- The support arm
- The machine
- The cutting guide

Référence	Désignation	Compatible rail profile
14221031	HC 355 with vignole jaw	All vignole rails
14221032	HC 355 with universal jaw	All vignole rails and grooved rails (Width rail head <130mm)
14221033	HC 406 with vignole jaw	All vignole rails
14221034	HC406 with universal jaw	All vignole rails and grooved rails (Width rail head <130mm)

The support arm is equipped with a tightening jaw ensuring a quick and rigid fixing on the rail. It supports and guides the rail saw so as to guarantee a good quality of cutting, perfectly perpendicular to the rail.

The machine is equipped with a safety device which prohibits sawing operation without a support arm. The device fixing, reversible on the support arm, enables the rail saw to be positioned either on the inside or the outside of the track without dismantling the tightening jaw.

The cutting guide contributes to place the support arm jaw exactly at the right place to realise the cutting.



Rail saw, support arm and cutting guide are paired. These elements cannot be separated because it can damage the cutting geometrical specifications (the series number of the the machine is marked on the jaw and the cutting guide)

IV - USE INSTRUCTIONS

1 - Storing

Keep dry ! Expose the rail saw in the rain can result in engine ignition problem. For a storage longer than two weeks, the fuel tank must be emptied by running the engine out of gas

2 – Handing

A rail saw in order to work weighs **21kg**

Only one person can handle the rail saw by mean of the transport handle



Poignée de manutention

3 – Safety measures to be taker before initial use

- Read carefully the manuals delivered with the machine
- The operator must ensure of the Railway Network particular use and security conditions
- Check the good functioning of the safety device which interrupt the engine ignition when the rail saw is disconnected from the support arm.

Procedure : rail saw fitted on the support arm, engine on idle speed, loosen the connecting screw : engine must stop running.

- Check petrol level
- Imperatively use A TWO STROKE ENGINE MIXTURE ; for the petrol type, the oil type and the petrol / oil ratio **refer to the prescriptions mentioned in the booklet of the engine manufacturer.**

4 – Positioning and fixing the support arm

- Bring the positioning gauge bevelled point on to the cutting mark

PHOTO 1



- Position the support arm in contact with the gauge lug so that the rail saw fastening pin is on the gauge side (photo 2)

PHOTO 2

Support arm Vignole Jaw :
24221002



Support arm Universal Jaw :
24221044



- Remove the gauge

5 – Fitting and fixing the rail saw on the support arm

The rail saw is firmly fixed to the support arm through a double input socket into which the support arm rod is screwed.

The double input socket enables the rail saw to be positioned either on the inside or the outside of the track.

A safety device at the middle of the socket ensures the opening of the engine ignition circuit and as a consequence it's closing when the rail saw is disconnected from the support arm.



To start up the engine :

- The threaded rod must be completely tightened up
- Both cones (axle + socket) must be in contact

NOTE: The safety device does not need greasing, it is specially designed to work without grease.

6 – Starting up the engine

To start the K1270 engine (cold or hot engine) and stop,

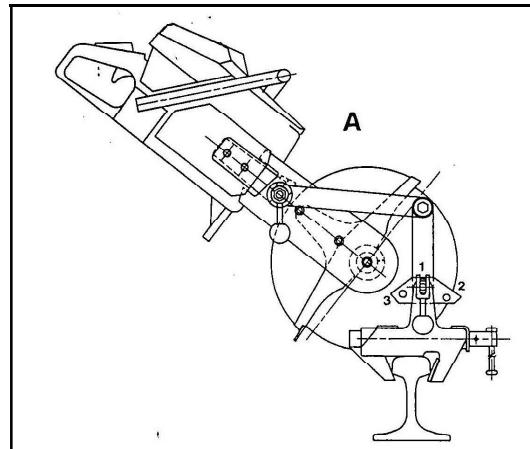
Refer to the manufacturer's instructions in the chapter "Starting and stopping".

7 – Sawing operation

7.1 Normal operating process

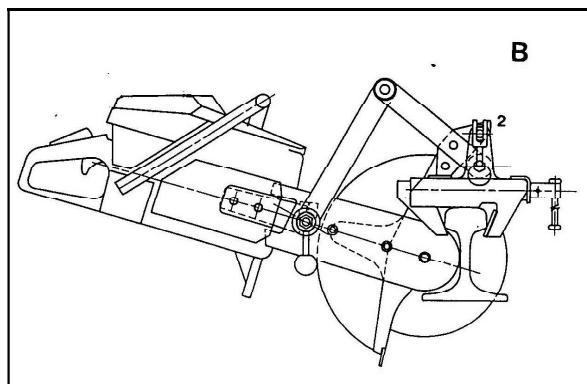
- Rail saw arm preparation : **drawing A position 1**
 - Unlock the arm by swinging the locking device to horizontal position
 - Place the arm inferior part in vertical position and lock it by releasing locking advice

- Sawing operation :
 - Fix the rail saw on its arm and start up the engine



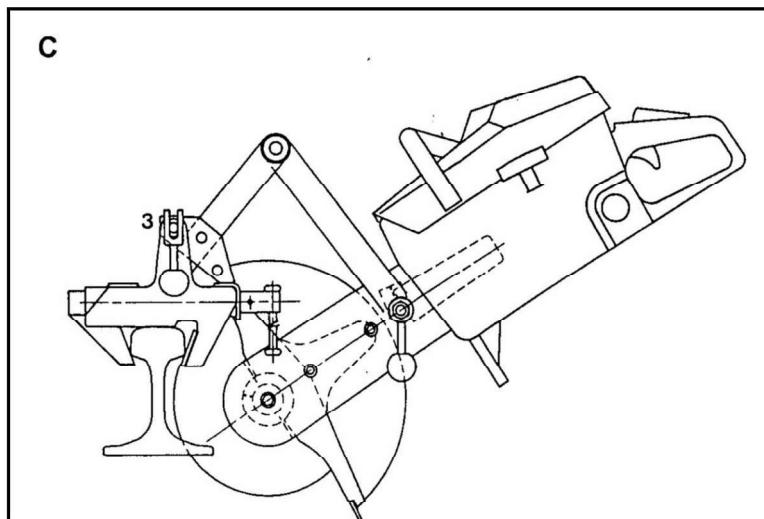
WARNING ! IT IS ABSOLUTELY NECESSARY TO FIX THE MACHINE ON THE SUPPORT ARM BEFORE STARTING UP THE MACHINE, SAFETY DEVICE CURTS OFF THE IGNITION IF THE SUPPORT ARM IS NOT USED

- Always start the sawing operation on the top of the rail head, one hand on the upper handle of the rail saw, the other on the accelerator control handle
- To ensure a straight cut and limit the cutting disc diameter reduction, pivot the engine around of the axle of its support and move the rail saw with a light swinging movement and carry on sawing until the rail foot is reached. The support arm locking system allows the operator to perform an easy cut without any difficulty to hold up the rail saw
- To carry on the sawing, unlock and incline the support arm to the stop, the locking will be automatic (**drawing B position 2**)



- **When the cutting disc diameter reduction no longer allows the sawing operation**, the rail saw must be turned over the support arm
 - Stop the engine and **wait until the cutting disc comes to a total stop**
 - Disconnect the rail saw from its support arm

- Unlock and pivot the support arm to its opposite side (**drawing C position 3**)
- Return the rail saw and screw the support arm on the opposite side of the connecting sleeve
- Carry on and finish the sawing operation



7.2 Special operating process

When the rails' stress may block the cutting disc in the final phase of sawing, it's necessary to proceed in an other way :

- Start the sawing at the rail foot
- Finish the operation at the rail head
- In case of blockage, loose the cutting disc by raising the rails ends

8 – Work Station

The operating position is marked in the blue area with 4 arrows.

See below :



V - MAINTENANCE

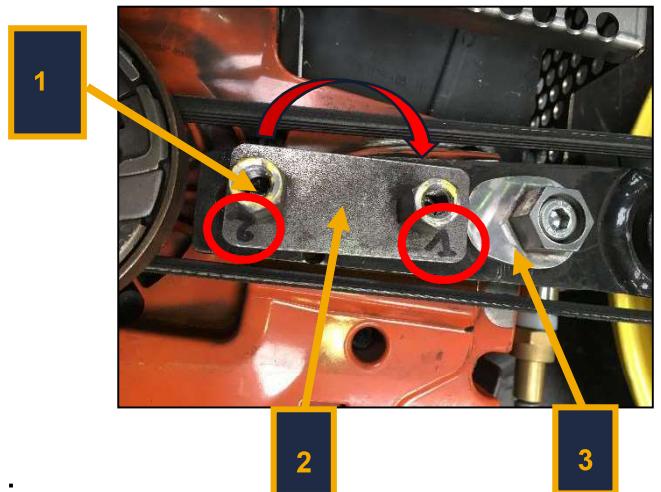
Responsability for maintenance is the responsability of the owner of the equipment.
Maintenance must be carried out at least once a year by a competent and qualified person.

OBJECT	OPERATION'S NATURE	PÉRIODICITY				
		Before using	After using	1h use	80 cutting	Precense of wear signs or incorrect functionning
Complete machine	Inspection of engine	X				
Complete machine	Clear the engine using a towel or comprimed air gun to remove the dirtness		X			
Filter	Replacement				X	
Belt 4PK	Check belt tension			X		
	Replacement					X
Disc casing	Clean the scale on disc casing	X	X			

The belt has 2 positions for ajusting the belt :

Position 1 : The plate in position 1 corresponds to a tensionning of a new belt.

Position 2 : The dish in position 2 corresponds to a tensionning of a relaxed belt.



OPERATING PROCEDURE FOR RETAINING THE BELT :

- Remove the belt housing and the clutch housing.
- Tighten the hexagonal spacers and remove them.
- Turn the cam so that the belt loosens
- Turn the flat belt tension back to position 2 and tighten the belt by turning the cam
- Tighten the hexagonal spacers
- Remove the protective casings

- 1 : Spacer ring
- 2 : Flat belt tension
- 3 : Cam

Alignment defect correction

Wear, chocks can produce an alignment defect :

This defect (e) is created when the rail saw must be turned over the support arm on the double input socket.

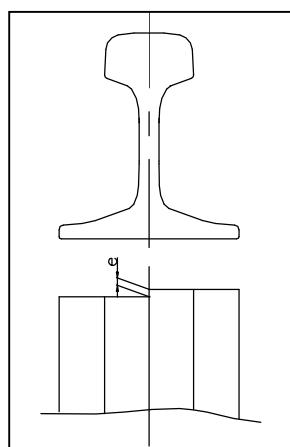
An adjustment must be done periodically as soon as the mark (e) comes near of the geometrical tolerances limits of the railway system.

Check the defect :

First, cut the head rail half (see photo below).



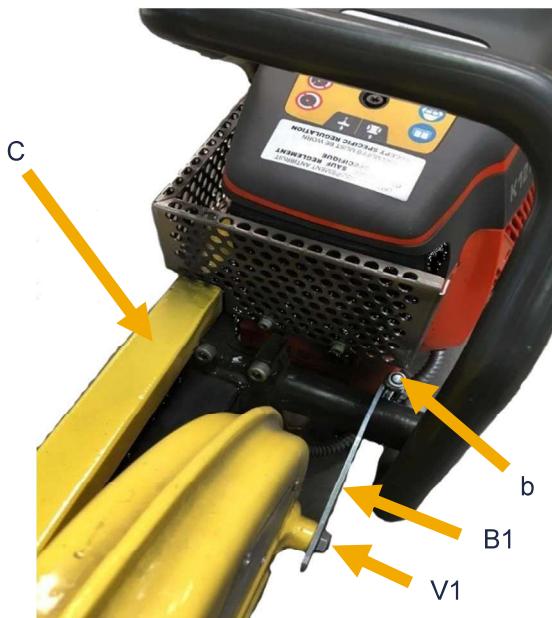
Make another $\frac{1}{2}$ cup on the other side (see picture below)



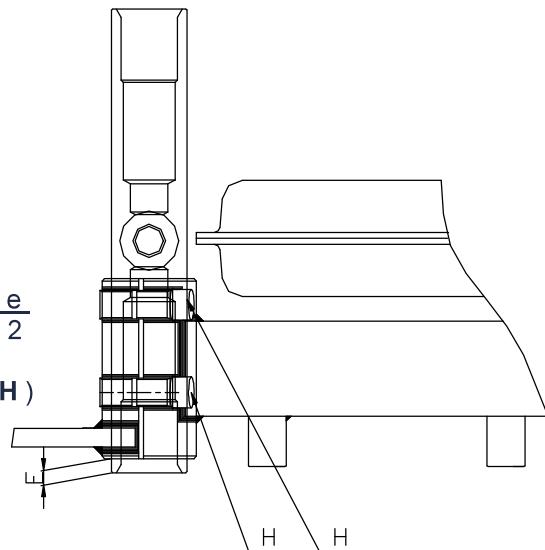
Raise the dimension « E » with a depth gauge

The dimension « e » represents the defect.

Procedure :



1. Detaching the disc casing from the holding plate **B1** by unscrewing the screw **V1**
2. Remove the holding plate **B1** by unscrewing the bolt **b**
3. Remove the belt housing **C**
4. Increase rating **E**
5. Loosen the screws **H**
6. Remove the sleeve by means of rubber mallet value $X = \frac{e}{2}$
(e : Dimension reading with depth gauge) in the direction
Which tends to the defaults of zero, then tighten the screws **H**)



NOTE: The belt is properly tensioned if it can be pressed slightly (5 to 10 mm) in the middle between the two grooved pulleys, exerting moderate pressure with the fingers.



For weekly, monthly, annual, maintenance:

Refer to the manufacturer's instructions for the K1270R



VI-SIGNALISATION

The rail saw is manufactured under a traceability process and identified by a unique serial number

ID PLATE

PANDROL Partners In Excellence			F-59590 Raismes
Type :	Réf :		
N° de série :	Année :		
Masse :	Kg	Agrément :	
Outil : Ø	mm x Alésage Ø	mm	
Vitesse MAXI :	tr/min	m/s	

ETIQUETTE EN 13977



VII – CARACTERISTIQUES TECHNIQUES

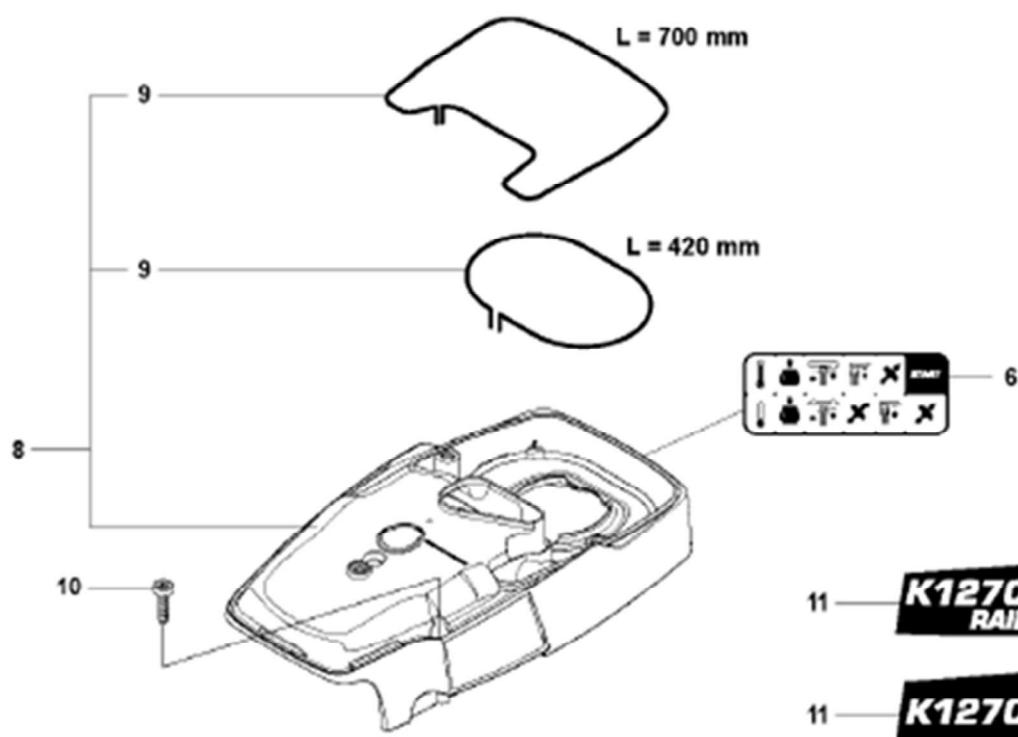
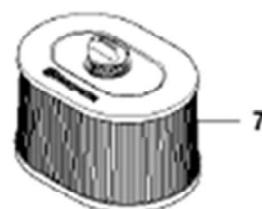
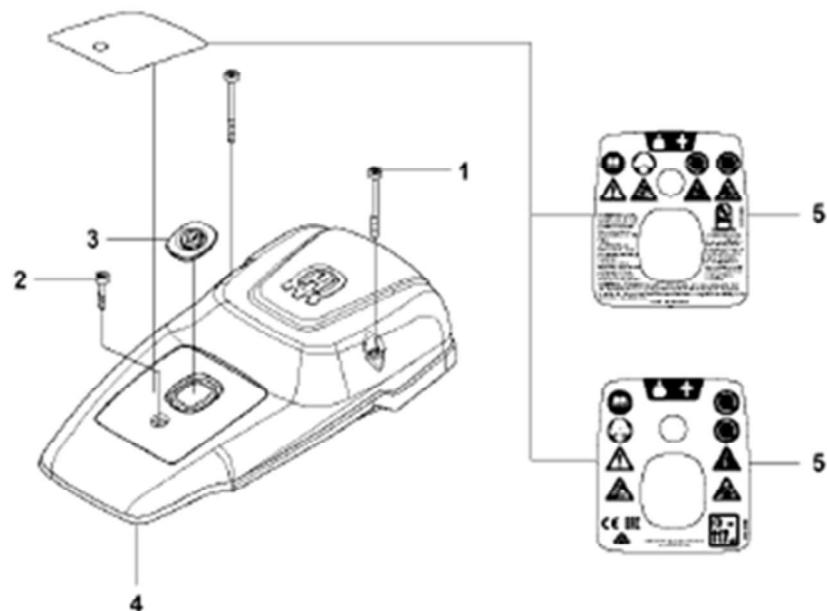
- Two-stroke HUSQVARNA K1270R engine
Cubic Capacity 119 cm³
Power 5,8 KW (7,9 hp) à 10 000 rpm.
- Safety system which prevents the engine from running if the rail sawi s disconnected from the support arm
- Effective three-step air filtration with air injection
- Housing disc is not flammable and adjustable ± 25°
- Cutting time : < 1min30 for 60E1 rail
- Dimensions (L x l x H) : 900 x 250 x 400 mm
- Rail saw weight : 21 Kg
- Support arm weight : 10 Kg (with universal jaw and cutting guide)
: 8,2 Kg (with vignole jaw and cutting guide)
- Support arm alloy : EN AC 21200 T6
- Petrol : Always use good quality unleaded petrol (the lowest octane rate recommended is 90) mixed with oil for two-stroke engine air cooling
Mixture :
See constructor's manual
 - Tank capacity : 1,25 Litre
 - Consupption : 1 filled up tank for 11 cutting off on 60 E1 (UIC 60)
 - Number of cut : 4-5 cut for HC 355
: 6 cut for HC 406
 - Noise level :
 - Acoustic pressions Lpa 104,6 dB
 - Acoustic Power LWA 117 dB
 - Acoustic Pick Lcpk 107,2 dB
 - Vibrations level during work :
 - Engine side handle 11,55 m.s⁻²
 - Disc side handle 6,08 m.s⁻²



VIII – PIECES DETACHEES

Designation	Description
Moteur HUSQVARNA K1270R	HUSQVARNA engine K1270R
Avant bras de transmission	Rail saw extension arm support
Bras support mâchoire Universelle et Vignole	Rail Saw arm and universal jaw and Vignole jaw

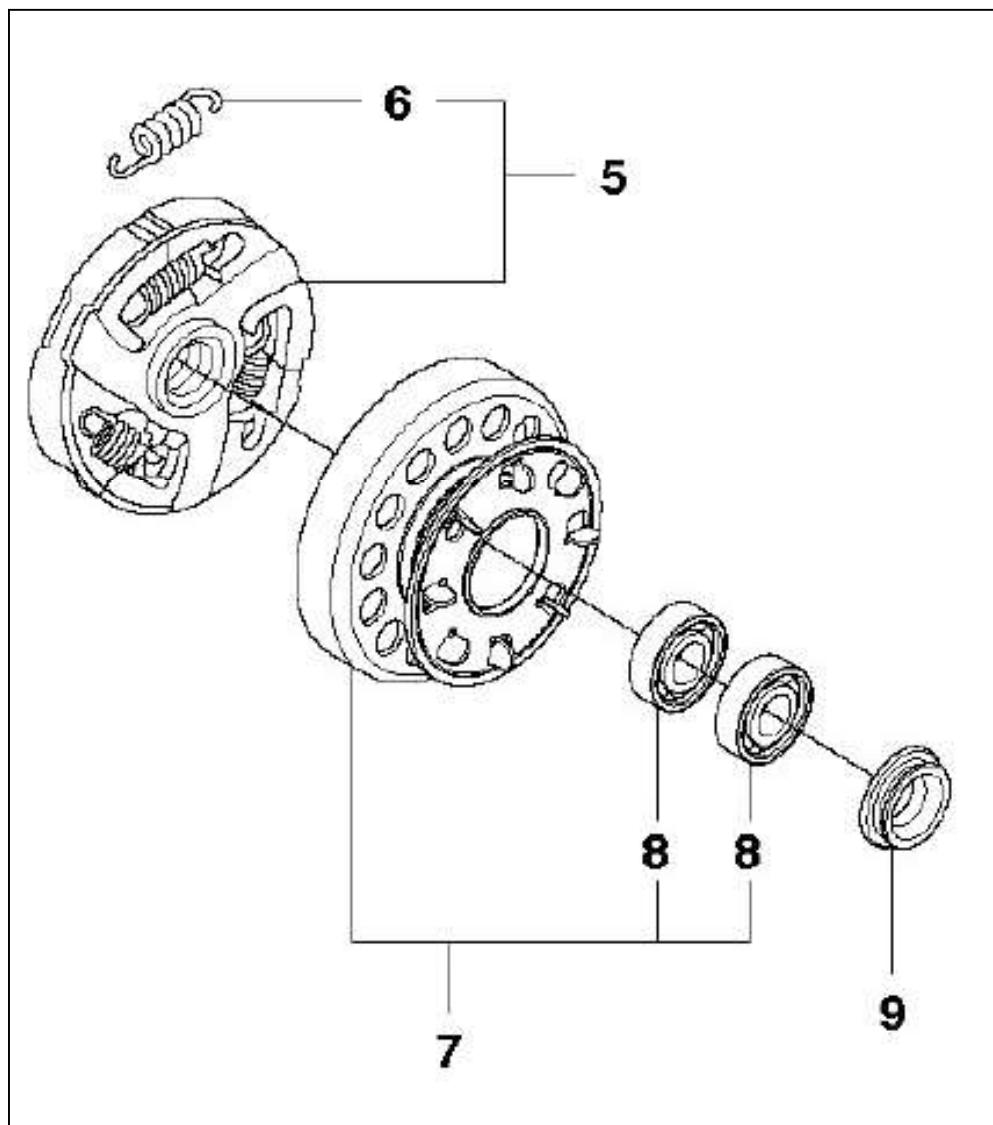
L K1270





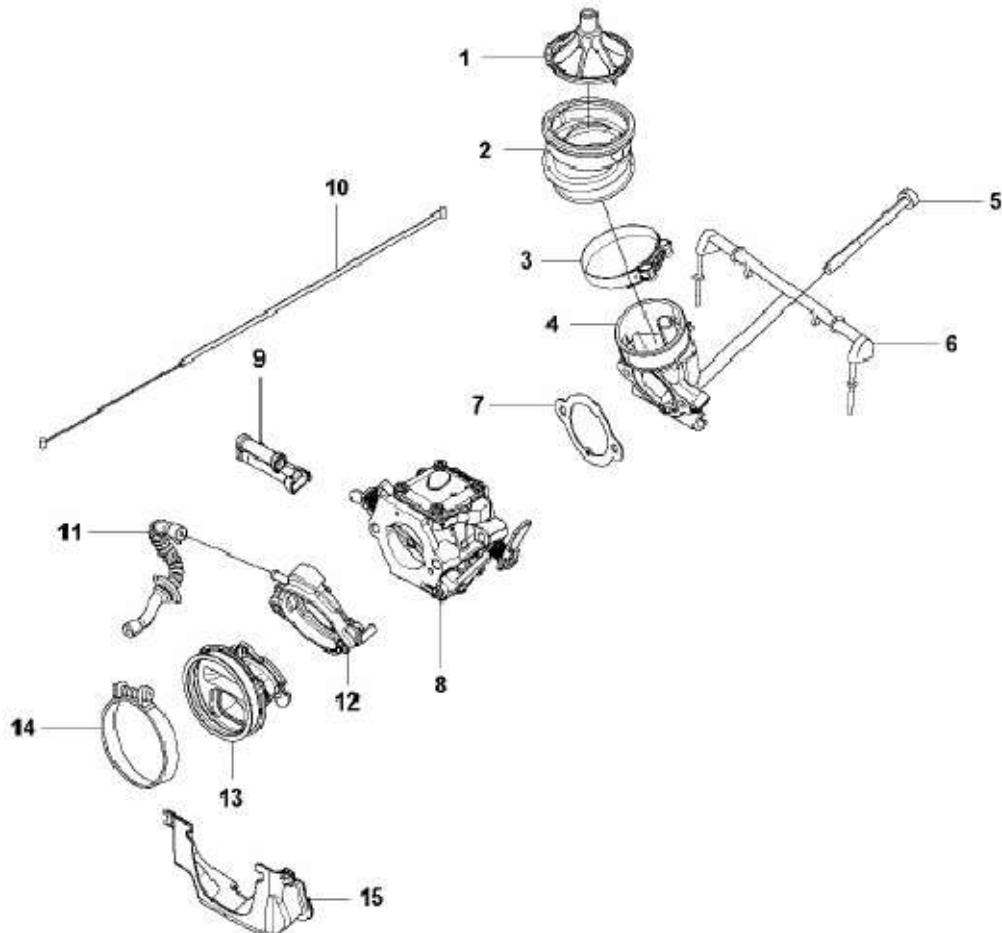
Ref	Part No	Description	Remark	QTY	KIT
1	503 21 53-56	SCREW ITXSCM		2	
2	503 21 53-12	SCREW ITXSCM		1	
3	585 42 83-01	PLUG		1	
4	589 02 34-01	FILTER COVER		1	
5	589 02 38-01	DECAL	USA CANADA MEXICO	1	
5	589 02 38-03	DECAL	CE	1	
6	544 87 38-02	LABEL		1	
7	510 24 41-03	AIR FILTER	Standard	1	
7	510 24 41-05	AIR FILTER	Rail	1	
8	576 55 32-02	CYLINDER COVER	Incl. 9-10	1	
9	525 61 70-04	SEALING		2	8
10	503 21 53-30	SCREW ITXSCM		5	8
11	525 81 69-04	LABEL	K1270 Rail	1	
11	525 81 69-03	LABEL	K12170	1	

BELT GUARD

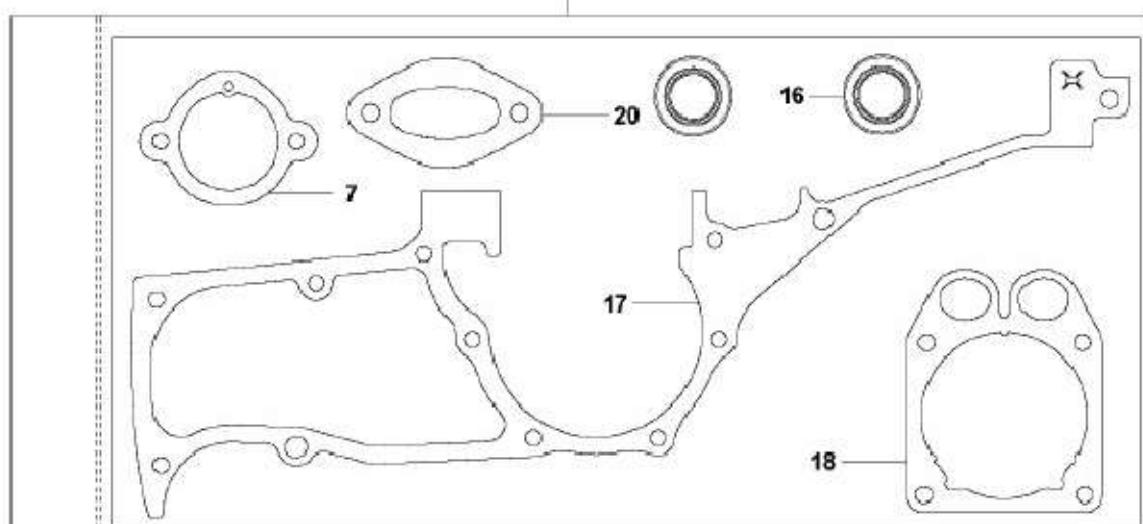


Ref	Part No	Description	Remark	QTY	KIT
5	503 14 49-01	CLUTCH ASSY	INCL.6	1	
6	503 14 51-01	CLUTCH SPRING		3	5
7	588 80 92-01	DRIVING PULLEY ASSY	"14" Incl.8"	1	
7	588 80 92-02	DRIVING PULLEY ASSY	"16" Incl.8"	1	
8	525 83 18-01	BALL BEARING		2	7
9	587 53 64-01	SPACING SLEEVE		1	

CARBURETOR

M K1270

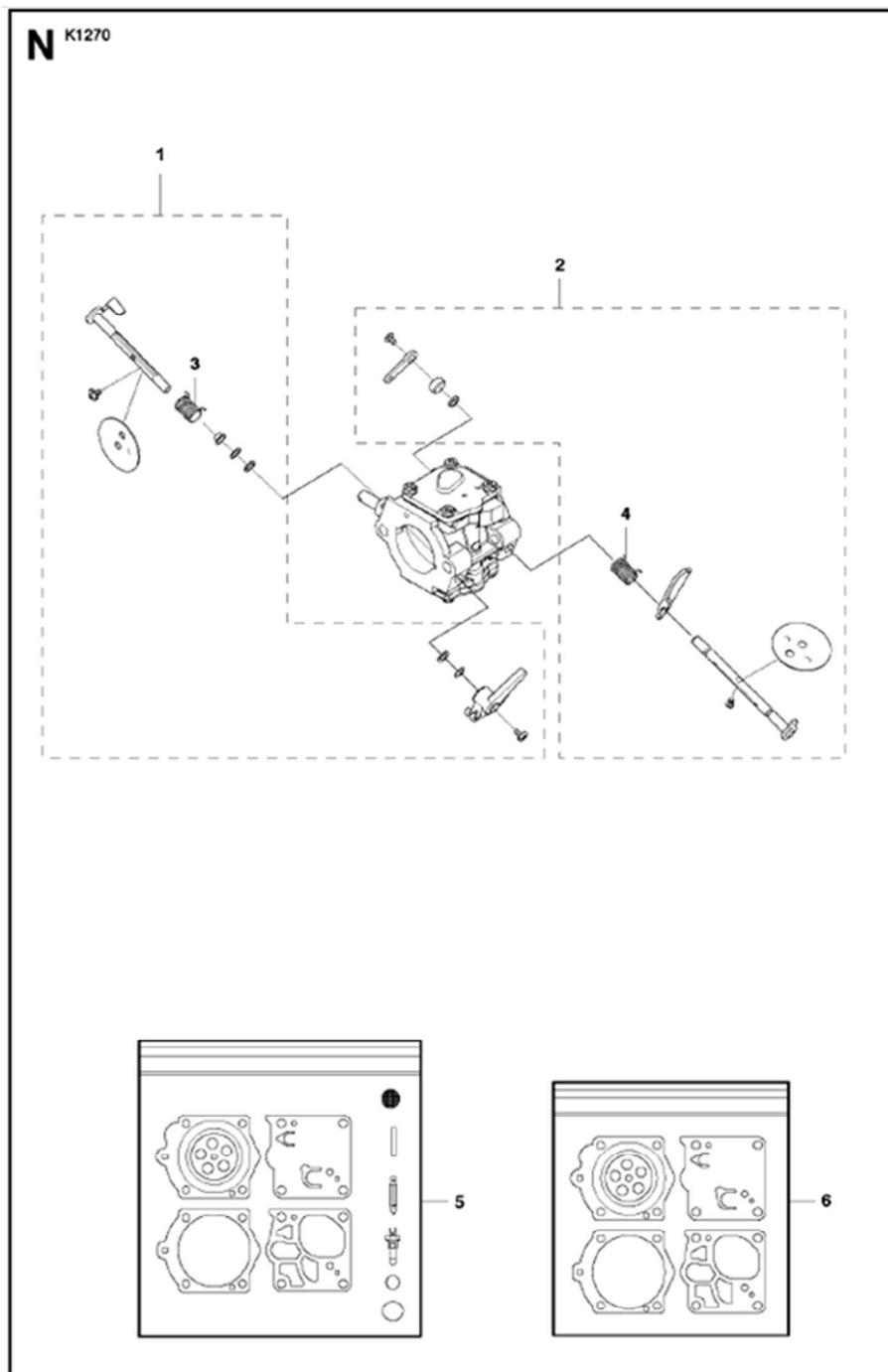
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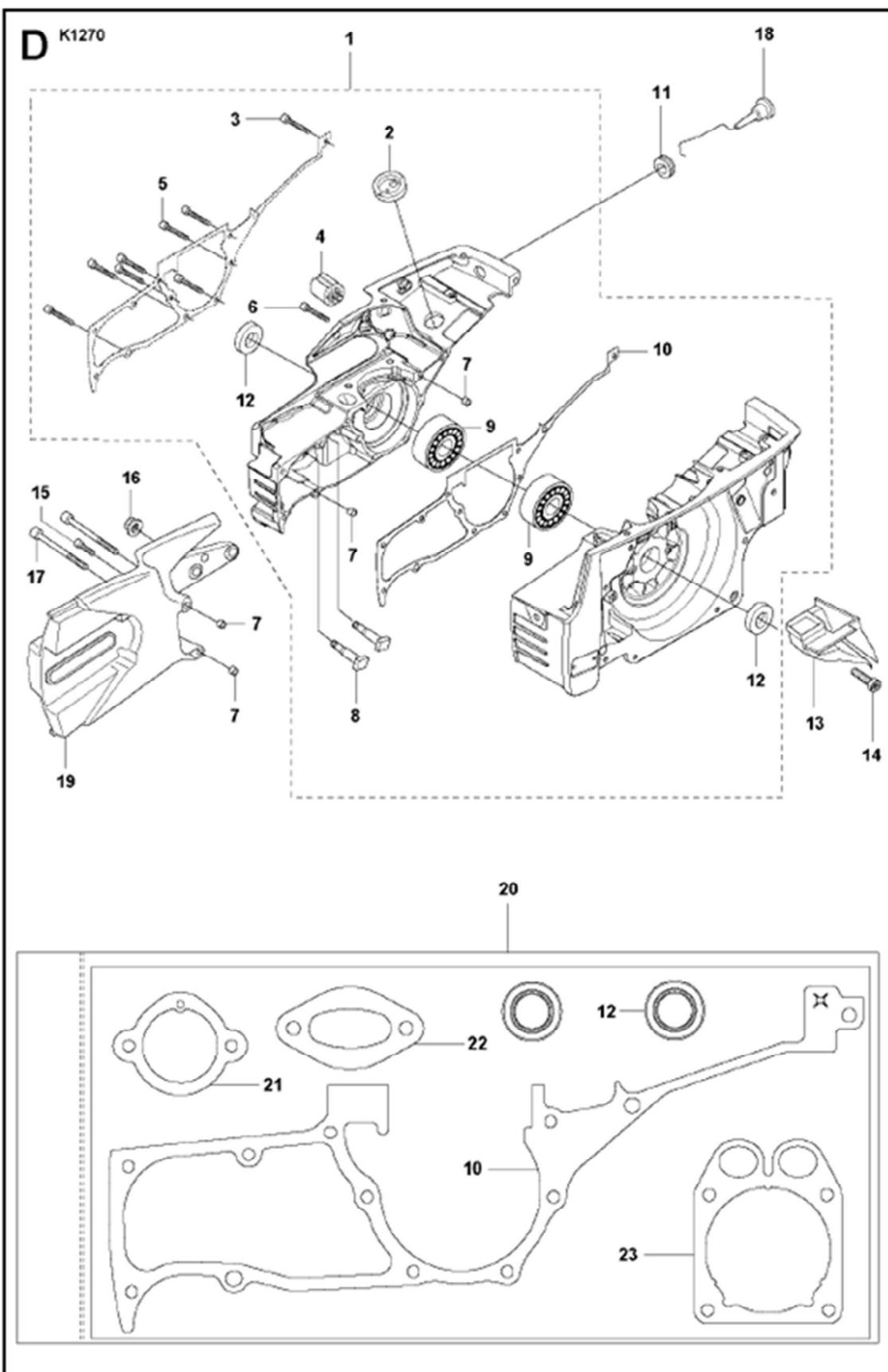
Ref	Part No	Description	Remark	QTY	KIT
1	510 24 39-01	FILTER		1	
2	510 24 38-02	BELLOWS		1	
3	505 28 33-07	HOSE CLAMP		1	
4	588 75 07-01	INLET BEND		1	
5	503 21 53-65	SCREW ITXSCM		2	
6	503 25 04-01	SUPPORT		1	
7	579 85 11-01	GASKET		1	20
8	589 02 36-01	CARBURETOR		1	
9	588 89 20-01	GUIDE SLEEVE		1	
10	506 28 98-02	THROTTLE CABLE ASSY		1	
11	588 70 55-01	IMPULSE HOSE		1	
12	587 53 69-01	FLANGE		1	
13	587 53 68-01	INLET PIPE		1	
14	505 28 33-08	HOSE CLAMP		1	
15	588 63 04-01	INSULATION WALL		1	
16	503 26 02-05	SEALING RING		2	19
17	582 35 00-01	GASKET		1	19
18	587 53 62-01	GASKET		1	19
19	582 45 48-01	GASKET KIT		1	
20	585 28 09-01	GASKET		1	19

CARBURATOR DETAILS



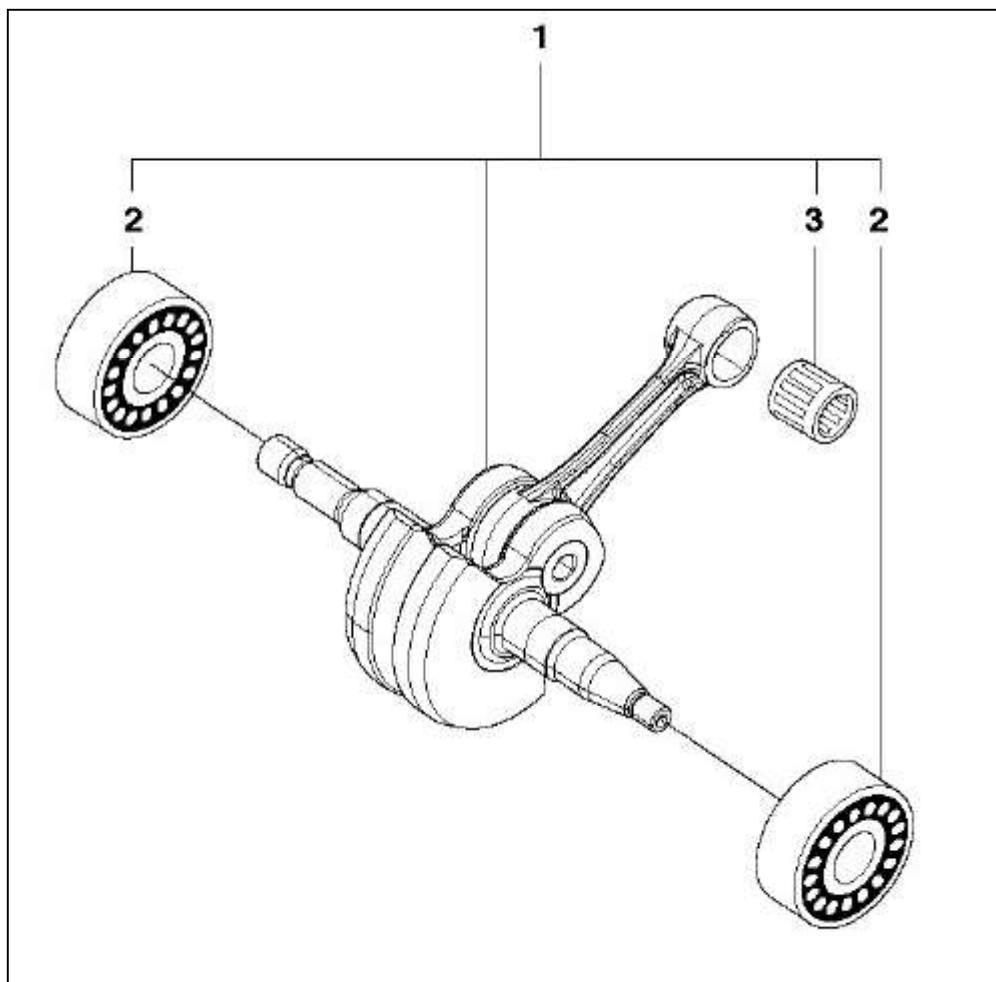
Ref	Part No	Description	Remark	QTY	KIT
1	582 72 95-01	THROTTLE SHAFT		1	
2	582 72 97-01	CHOKE SHAFT		1	
3	579 79 15-01	SPRING		1	1
4	579 79 16-01	SPRING		1	2
5	582 60 65-01	REPAIR KIT		1	
6	503 59 74-03	GASKET KIT		1	

CRANKCASE



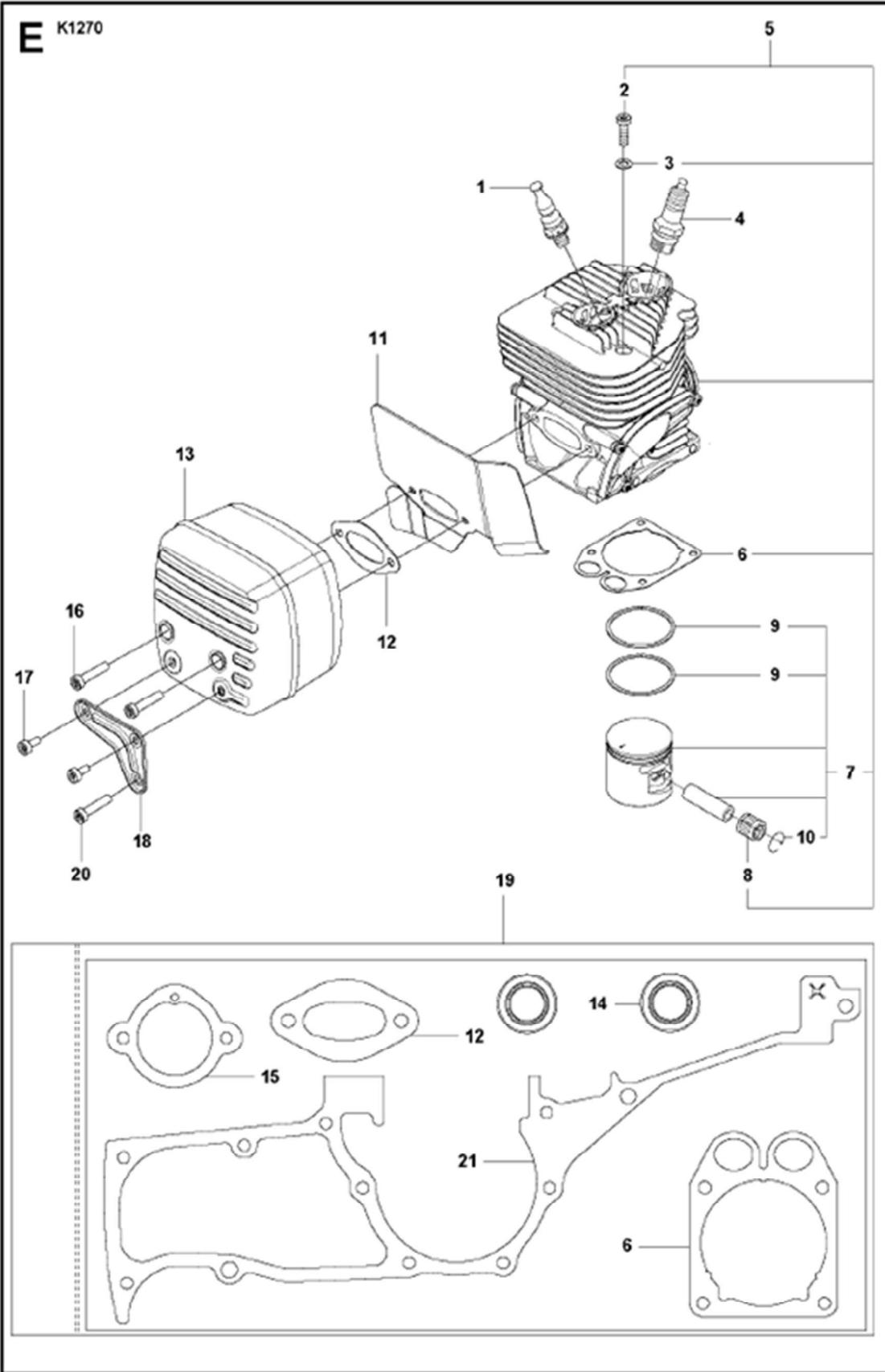
Ref	Part No	Description	Remark	QTY	KIT
1	582 60 35-01	CRANKCASE ASSY	Incl. 2-11	1	
2	503 13 20-01	GROMMET		1	1
3	503 21 53-20	SCREW ITXSCM		1	1
4	501 26 97-05	ANTIVIBRATION ELEMENT		1	1
5	503 21 53-41	SCREW ITXSCM		7	1
6	544 21 84-20	SCREW ITXSCM		1	1
7	501 27 08-01	GUILDE BUSHING		4	1
8	501 81 57-01	BAR BOLT		2	1
9	203 25 00-02	BALL BEARING		2	1
10	582 35 00-01	GASKET		1	20,1
11	503 14 54-02	GROMMET		1	
12	503 26 02-05	SEALING RING		2	20,1
13	506 23 70-01	AIR NOZZLE		1	
14	501 98 10-01	SCREW ITXSCM		1	
15	503 21 53-21	SCREW ITXSCM		1	
16	503 22 00-01	HEXAGON NUT		1	
17	503 21 53-65	SCREW ITXSCM		2	
18	506 25 43-02	CHOKE CONTROL		1	
19	506 24 14-04	CUTTER ARM		1	
20	582 45 48-01	GASKET KIT	Incl. 10.12 21 -23	1	
21	579 85 11-01	GASKET		1	20
22	585 28 09-01	GASKET		1	20
23	587 53 62-01	GASKET		1	20

CRANKSHAFT



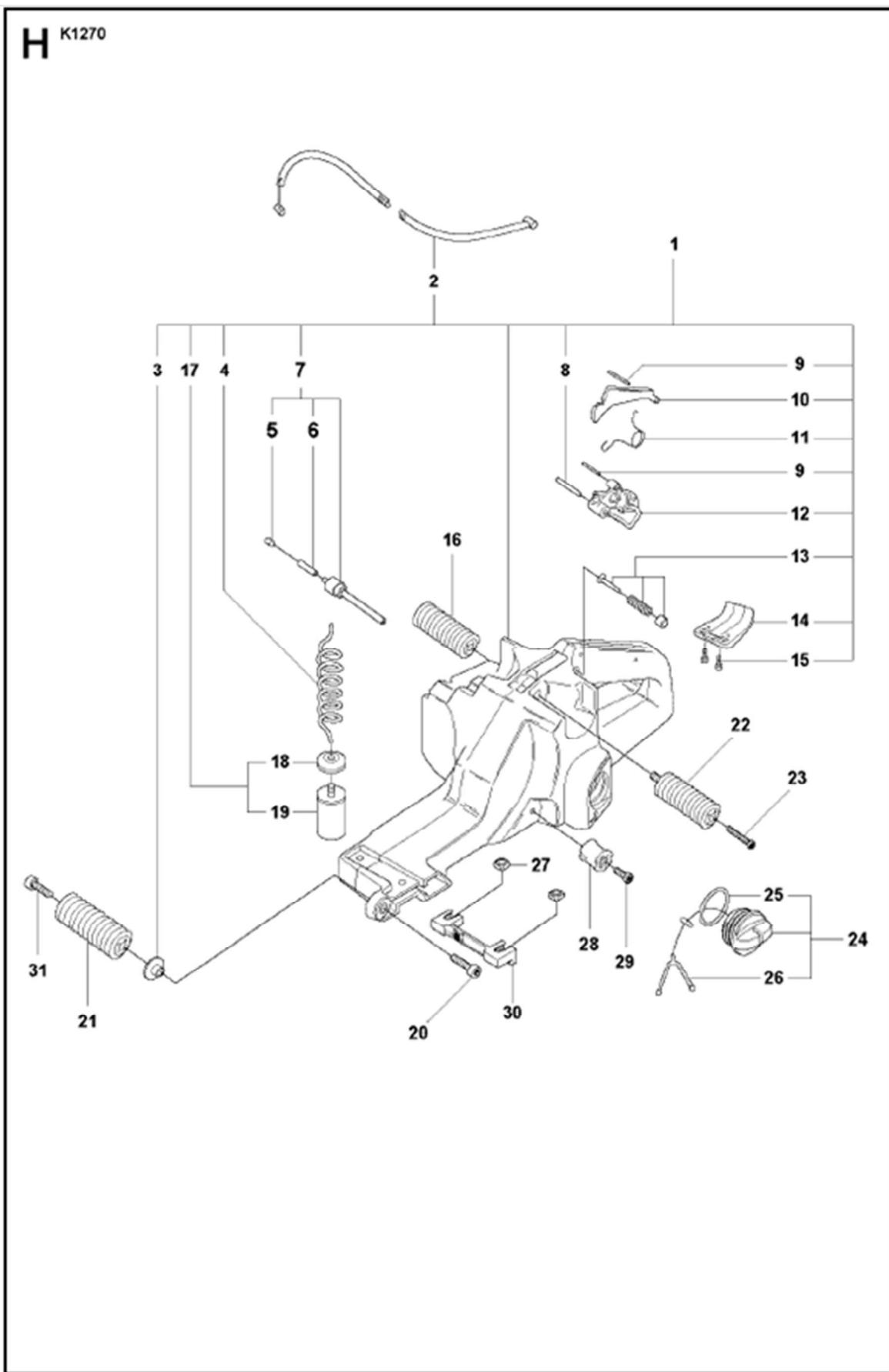
Ref	Part No	Description	Remark	QTY	KIT
1	587 01 54-01	CRANKSHAFT ASSY	Incl. 2,3	1	
2	503 25 00-02	BALL BEARING		2	1
3	503 13 91-01	NEEDLE BEARING		1	1

CYLINDER, PISTON & MUFLER

E K1270

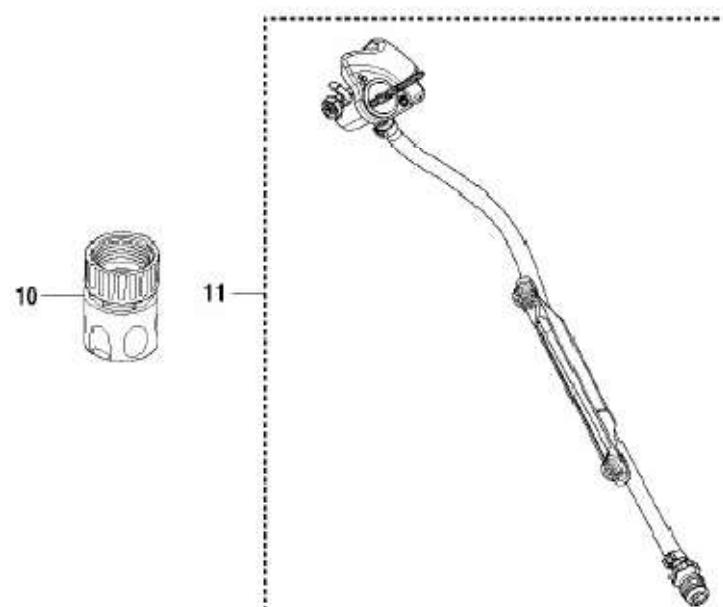
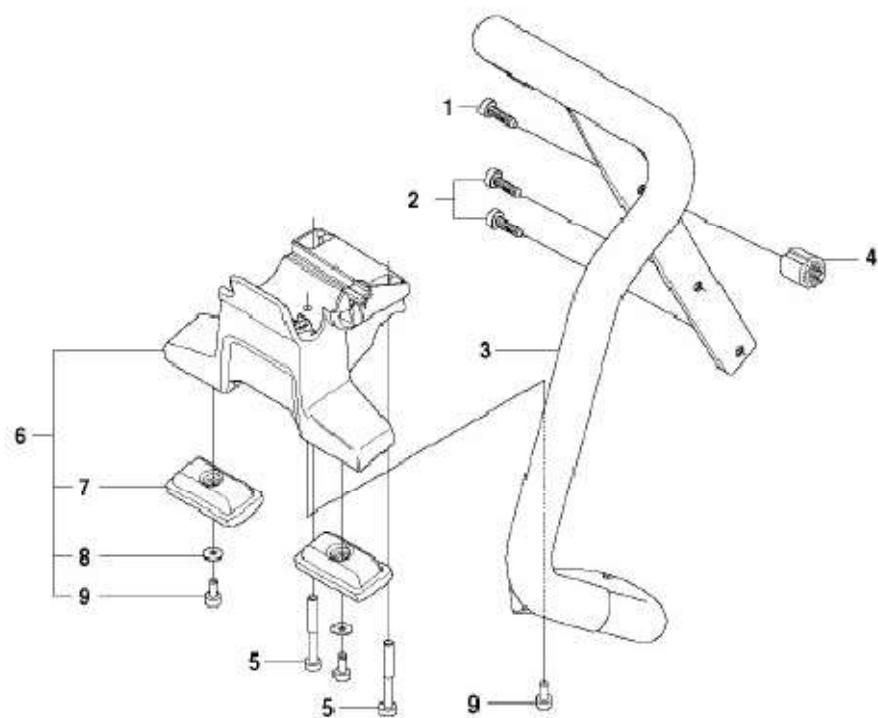
Ref	Part No	Description	Remark	QTY	KIT
1	584 91 22-04	DECOMPRESSION VALVE		1	
2	516 00 24-01	SCREW UNC		4	5
3	503 23 00-05	WASHER		4	5
4	503 23 51-09	SPARK PLUG	RCJ 6Y	1	
5	582 58 23-01	CYLINDER ASSY	Incl.6-8	1	
6	587 53 62-01	GASKET		1	5,19
7	587 82 98-02	PISTON ASSY	Incl. 9-10	1	5
8	503 13 29-01	NEEDLE HOLDER		1	5
9	587 83 00-01	PISTON RING		2	5
10	737 44 13-00	CIRCLIP		2	5
11	587 53 63-01	HEAT DEFLECTOR		1	
12	585 28 09-01	GASKET		1	19
13	505 51 79-05	MUFFLER ASSY	Incl.14-15	1	
14	503 26 02-05	SEALING RING		2	19
15	579 85 11-01	GASKET		1	19
16	544 21 84-01	SCREW ITXSCM		2	
17	503 21 53-12	SCREW ITXSCM		2	
18	502 85 08-01	SUPPORT		1	
19	582 45 48-01	GASKET KIT		1	
20	544 21 84-20	SCREW ITXSCM		1	
21	582 35 00-01	GASKET		1	19

FUEL TANK



Ref	Part No	Description	Remark	QTY	KIT
1	582 62 58-04	FUEL TANK	Incl.1-15. 17	1	
2	506 28 98-02	THROTTLE CABLE ASSY		1	1
3	503 14 08-01	BUSHING		1	1
4	581 75 62-02	FUEL HOSE		1	1
5	504 35 72-01	PLUG		1	1.7
6	581 75 61-29	FUEL HOSE		1	1.7
7	588 99 27-01	TANK VENT ASSY		1	1
8	720 12 78-06	PARALLEL PIN		1	1
9	720 12 40-20	PARALLEL PIN		1	1
10	503 13 16-02	THROTTLE LOCKOUT		1	1
11	503 13 18-01	SPRING		1	1
12	503 13 36-02	THROTTLE CONTROL ASSY		1	1
13	503 14 23-01	SPARRSTIFT RES		1	1
14	506 23 34-01	SUPPORT		1	1
15	503 21 45-16	SCREW CRCSFT		2	1
16	585 22 63-01	ANTIVIBRATION ELEMENT		1	
17	506 26 41-11	FUEL FILTER	Incl.18-19	1	1
18	506 27 11-01	HOSE CLAMP		1	17.1
19	506 26 41-01	FUEL FILTER		1	17.1
20	503 21 53-20	SCREW ITXSCM		2	
21	503 13 27-02	ANTIVIBRATION ELEMENT		1	
22	585 22 64-01	ANTIVIBRATION ELEMENT		1	
23	544 21 84-20	SCREW ITXSCM		2	
24	506 25 59-06	TANK CAP ASSY	Incl.25-26	1	
25	506 29 21-01	GASKET		1	24
26	503 57 89-01	HOLDER		1	24
27	505 42 04-01	NUT		2	
28	501 81 47-01	ANTIVIBRATION ELEMENT		1	
29	503 21 53-12	SCREW ITXSCM		1	
30	574 51 22-01	NUT LOCKING		1	
31	503 21 53-25	SCREW ITXSCM		1	

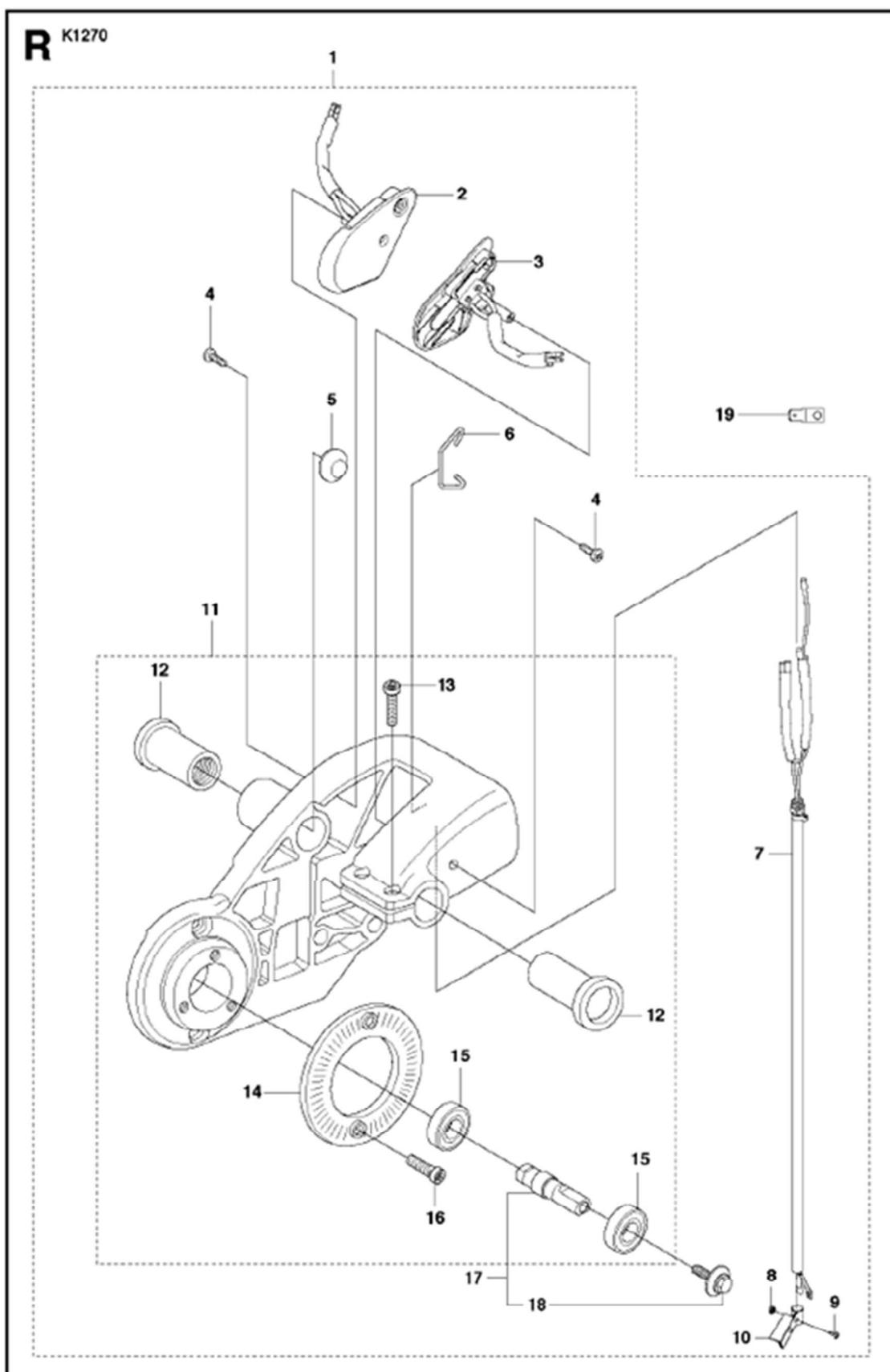
HANDLE

G K1270



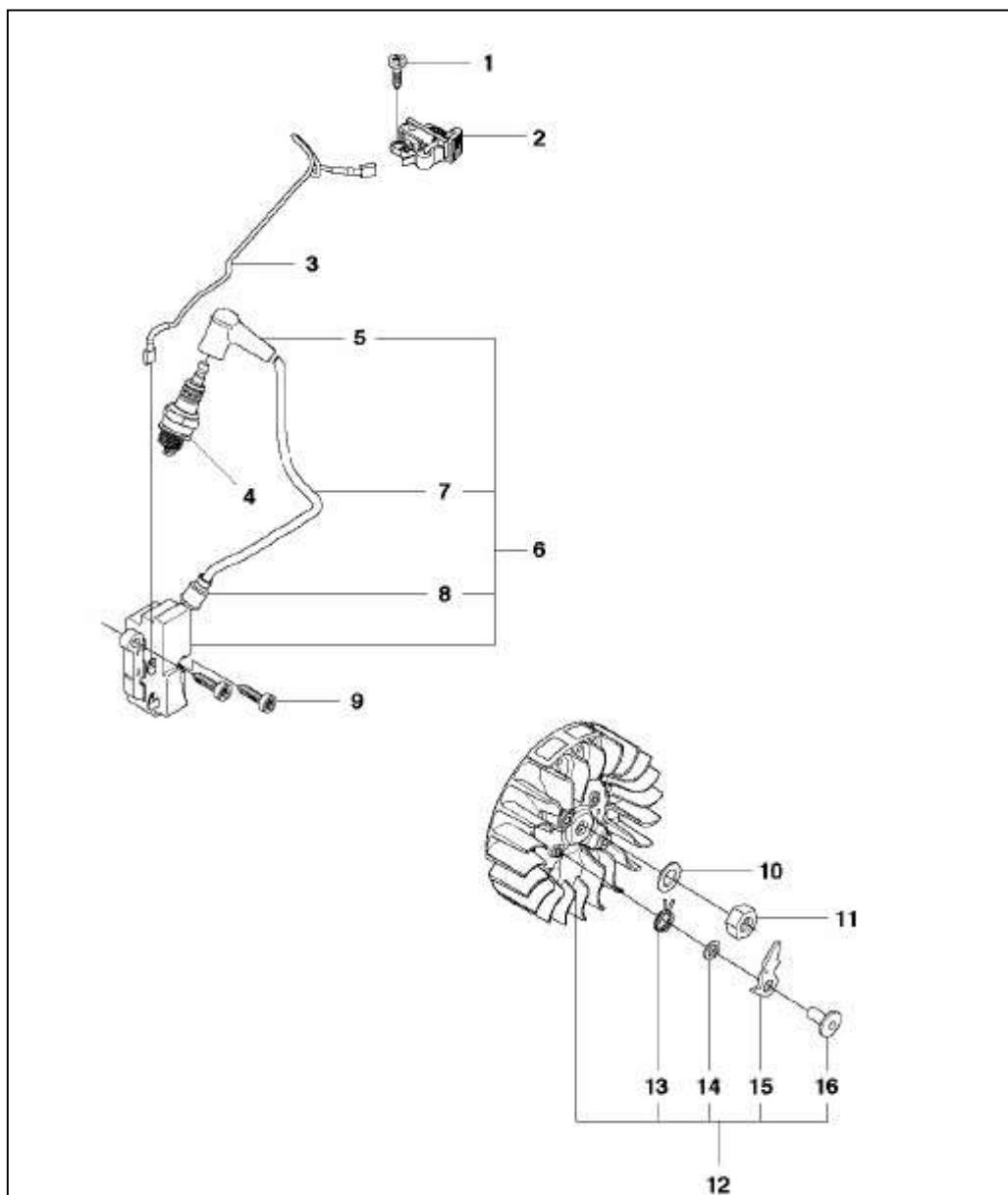
Ref	Part No	Description	Remark	QTY	KIT
1	503 21 53-12	SCREW ITXSCM		1	
2	503 21 54-20	SCREW ITXCT		2	
3	521 95 48-01	HANDLE		1	
4	501 26 97-05	ANTIVIBRATION ELEMENT		1	
5	544 21 84-47	SCREW ITXSCM		2	
6	525 82 04-02	GROUND SUPPORT	Incl. 7-9	1	
7	544 81 16-01	BASE		2	6
8	734 11 47-41	WASHER		2	6
9	504 90 94-14	SCREW ITXSCT		3	6
10	503 26 60-03	COUPLER	USA, CANADA	1	
10	503 26 60-04	COUPLER		1	
11	581 47 62-05	HOSE KIT		1	

HOUSING



Ref	Part No	Description	Remark	QTY	KIT
1	576 66 57-02	BEARING HOUSING ASSY	"14" Rail Stop Switch	1	
2	506 35 91-04	STOP SWITCH	RH	1	1
3	506 35 91-03	STOP SWITCH	LH	1	1
4	729 52 91-71	SCREW CRPANT		2	1
5	506 35 96-01	SPACING BLOCK		1	1
6	501 35 43-01	CLIP		1	1
7	506 35 90-01	WIRING		1	1
8	732 25 12-01	HEXAGON LOCKING NUT		1	1
9	724 12 87-59	SCREW CRPANM		1	1
10	506 35 80-01	BRACKET		1	1
11	576 66 57-01	BEARING HOUSING ASSY	"14" Rail"	1	1?
11	576 66 57-03	BEARING HOUSING ASSY	"16" Rail	1	1?
11	576 66 57-04	BEARING HOUSING ASSY	16 Rail USA	1	1?
12	506 22 75-01	SLEEVE		2	11
13	503 20 02-16	SCREW IHSCFM		2	11
14	506 28 84-01	SCREEN		1	11
15	583 95 33-01	BALL BEARING		2	11
16	503 21 53-10	SCREW ITXSCM		2	11
17	588 99 24-01	SHAFT	Incl.18	1	1
18	588 03 94-01	SCREW		1	17
19	535 03 94-01	CONNECTION		1	

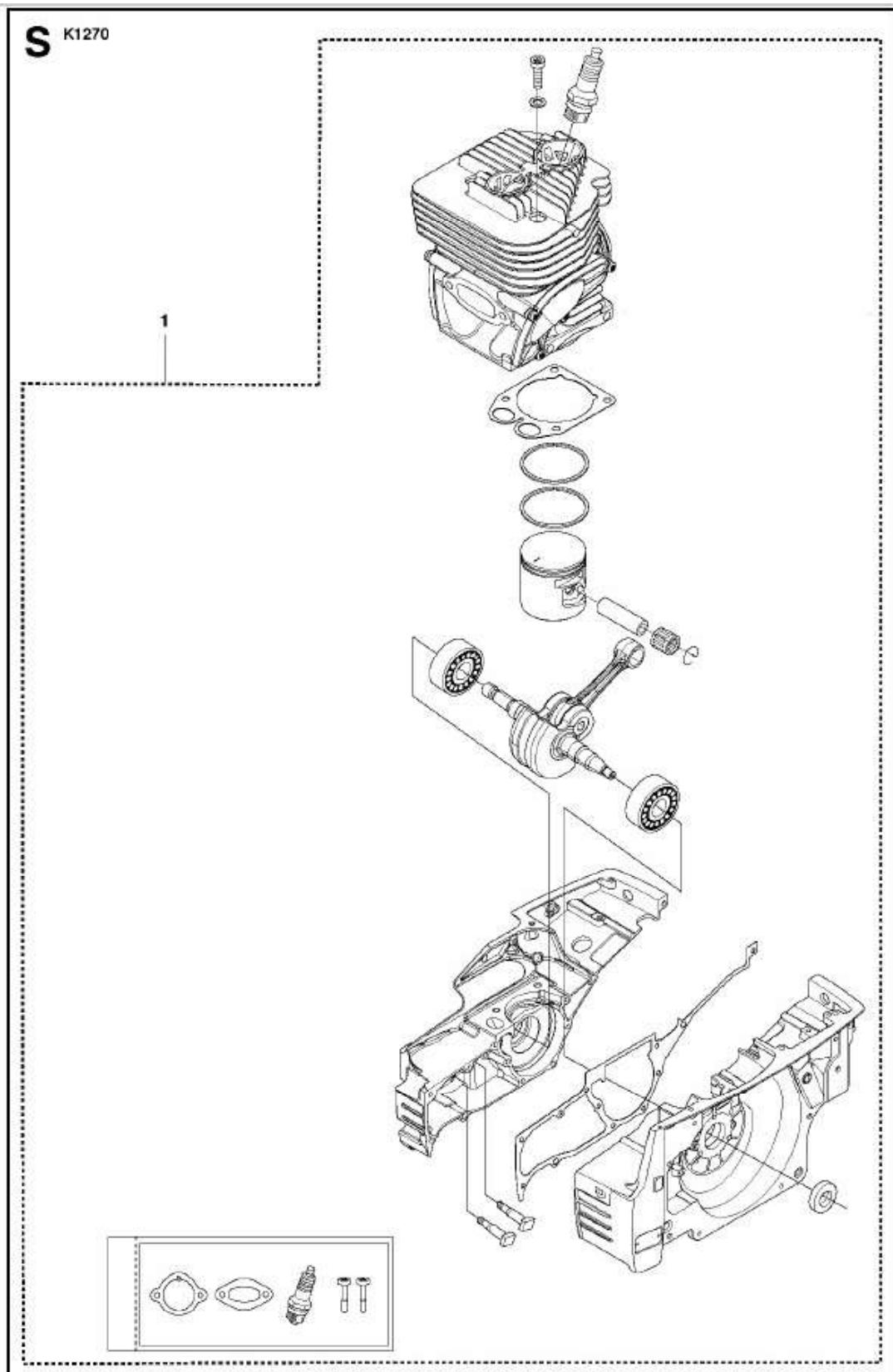
IGNITION SYSTEM





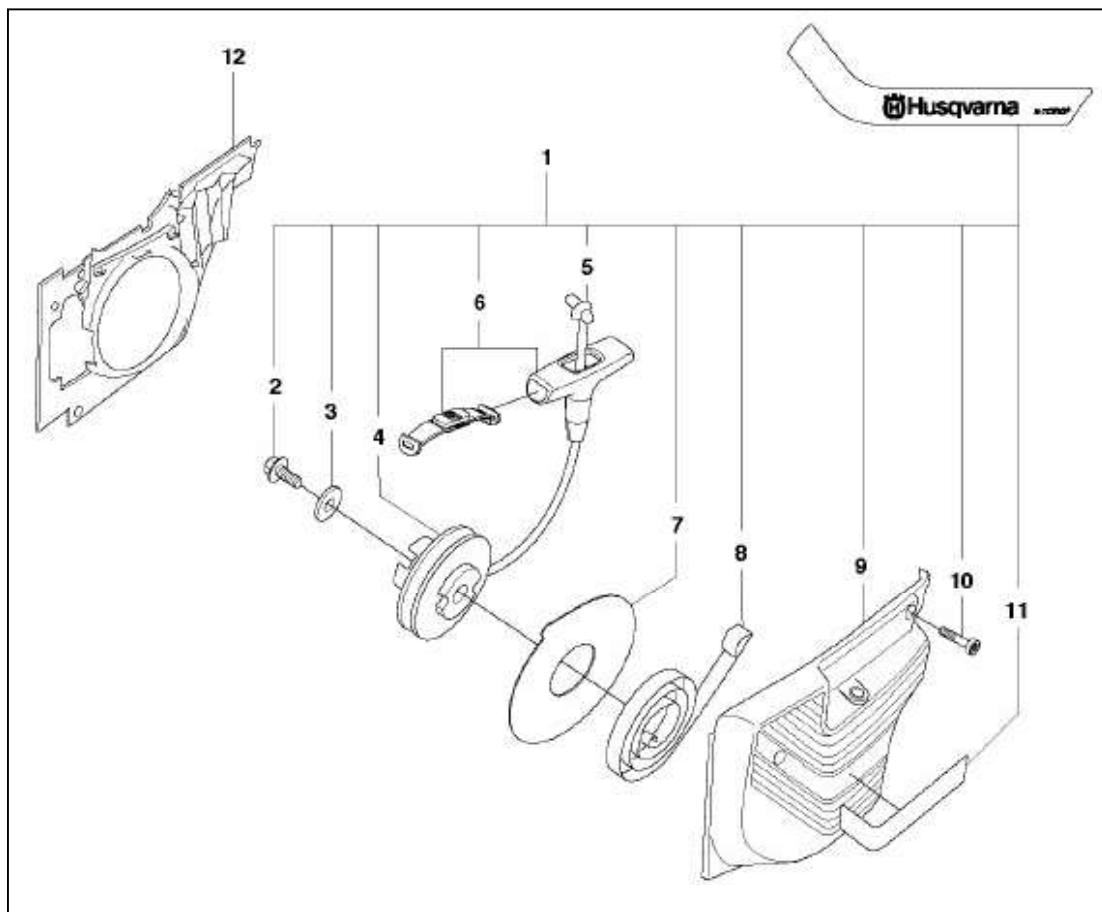
Ref	Part No	Description	Remark	QTY	KIT
1	525 88 74-02	SCREW CITXPANT		1	
2	506 31 86-04	STOP SWITCH		1	
3	501 83 98-03	CABLE		1	
4	503 23 51-09	SPARK PLUG	RCJ 6Y	1	
5	501 48 54-02	SPARK PLUG CAP		1	
6	580 38 05-03	IGNITION MODULE	Incl.7-8	1	
7	506 38 78-34	IGNITION CABLE		1	6
8	505 27 75-16	ISOLERHATT		1	6
9	503 21 53-20	SCREW ITXSCM		2	
10	735 11 73-50	SPRING WASHER		1	
11	503 22 10-11	HEXAGON NUT		1	
12	587 24 88-01	FLYWHEEL ASSY	Incl. 13-16	1	
13	501 63 48-01	SPRING		2	12
14	503 23 00-42	WASHER		2	12
15	501 67 32-03	PAWL		2	12
16	501 81 99-01	SCREW		2	12

SHORT BLOCK

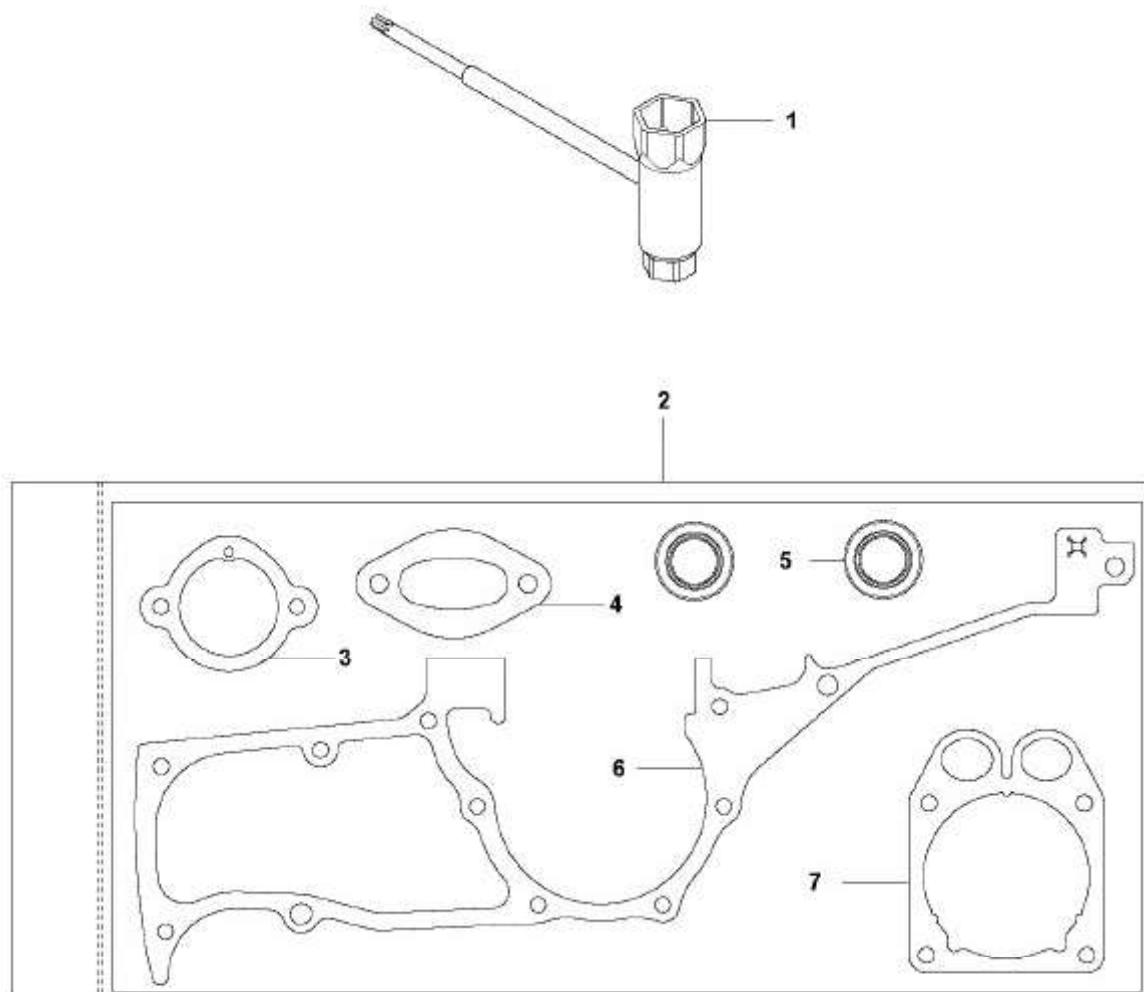


Ref	Part No	Description	Remark	QTY	KIT
1	582 41 50-02	CRANKCASE		1	

STARTER



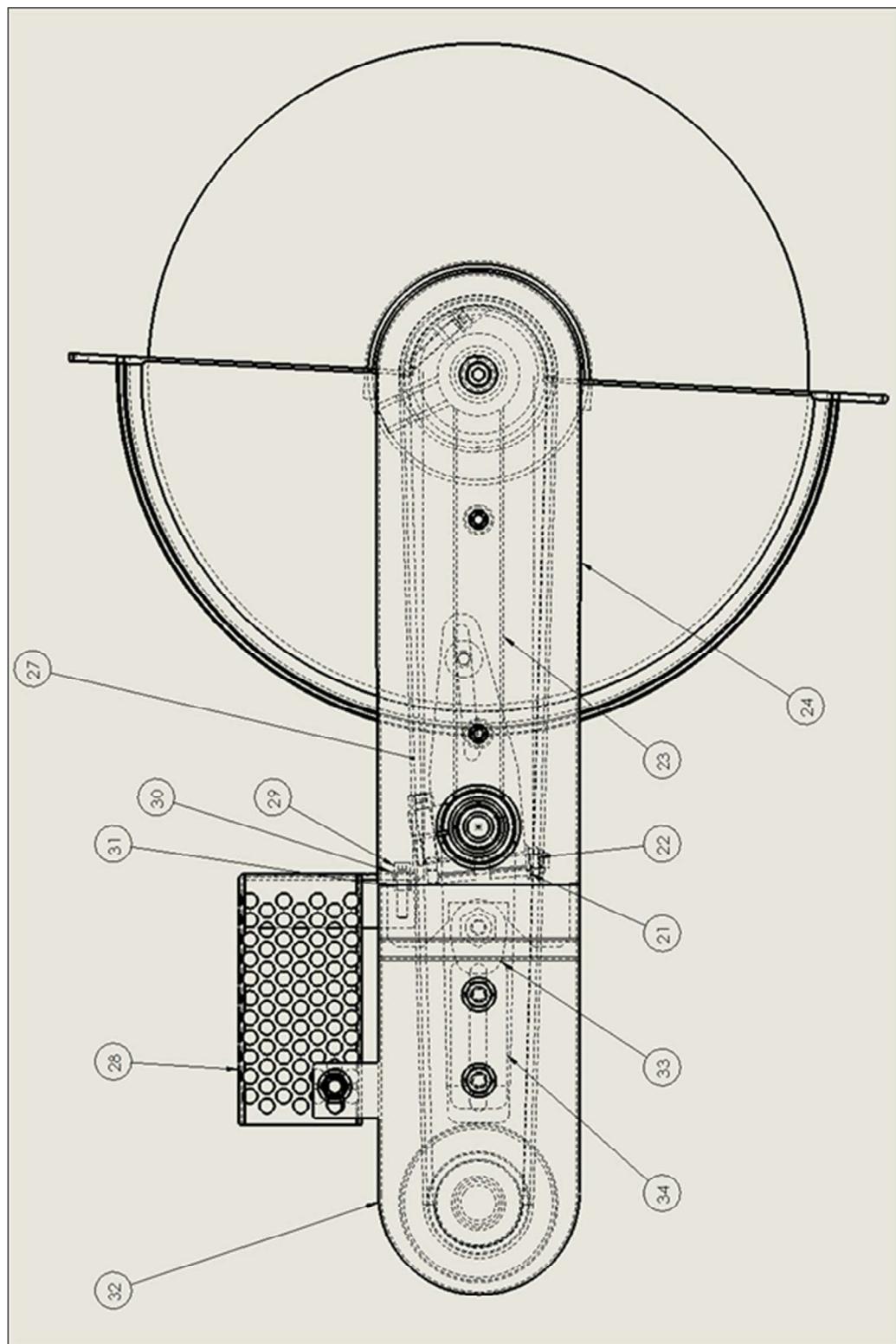
Ref	Part No	Description	Remark	QTY	KIT
1	506 27 55-07	STARTER	Incl. 2-11	1	
2	503 21 06-16	SCREW IHSCT		1	1
3	503 23 43-02	WASHER		1	1
4	501 89 67-04	STARTER PULLEY		1	1
5	506 33 56 25	STARTER CORD		1	1
5	506 33 56-50	STARTER CORD	50 meter	1	1
6	584 25 79-01	STARTER HANDLE ASSY		1	1
7	503 74 36-01	DAMPING DISC		1	1
8	503 13 50-01	RECOIL SPRING		1	1
9	506 25 58-02	STARTER COVER		1	1
10	503 21 53-26	SCREW ITXSCM		4	1
11	582 14 19-01	DECAL		1	1
12	501 89 59-03	AIR CONDUCTOR		1	
12	501 89 59-03	LESKENA	Rail stop switch only	1	

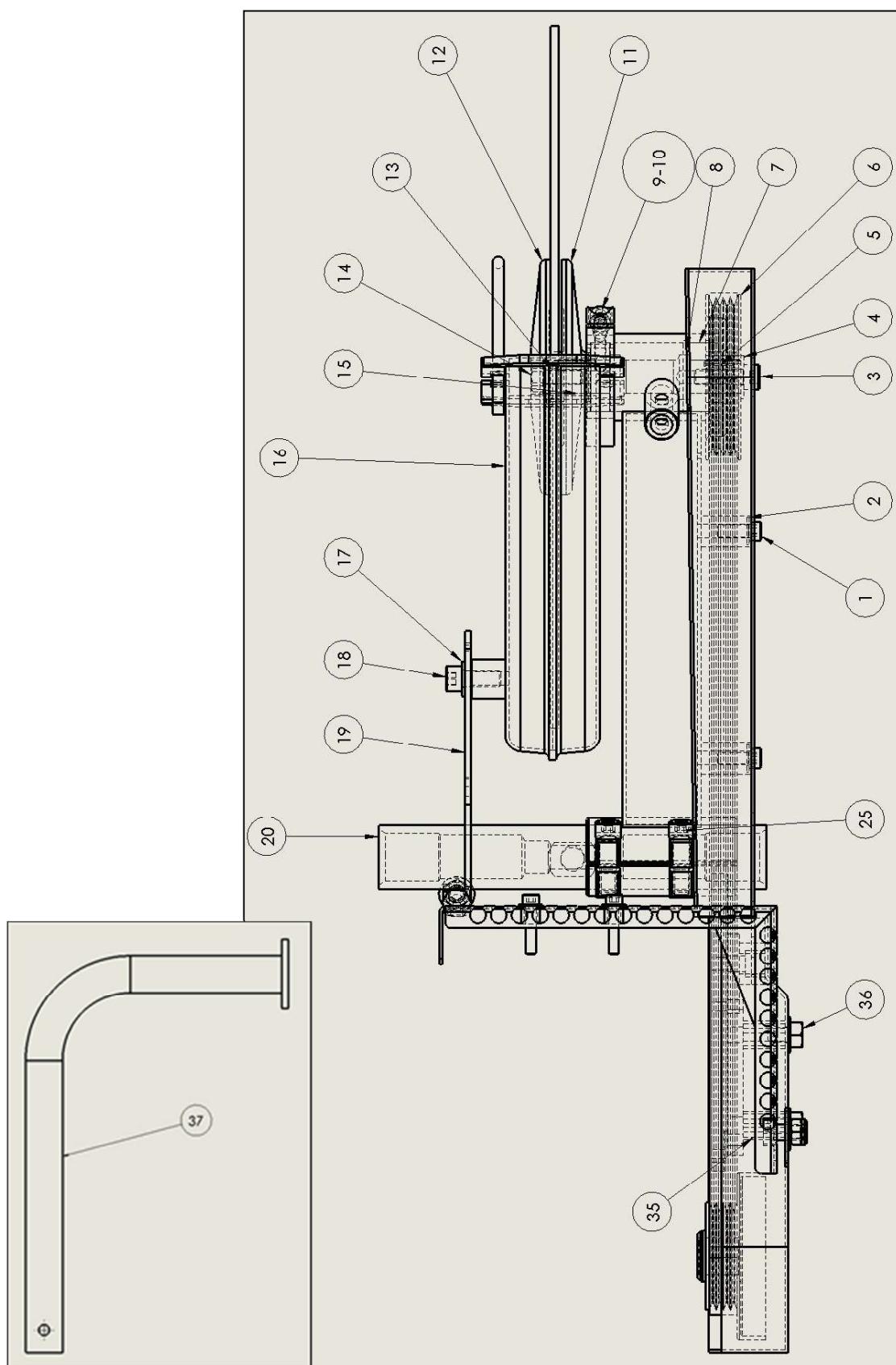


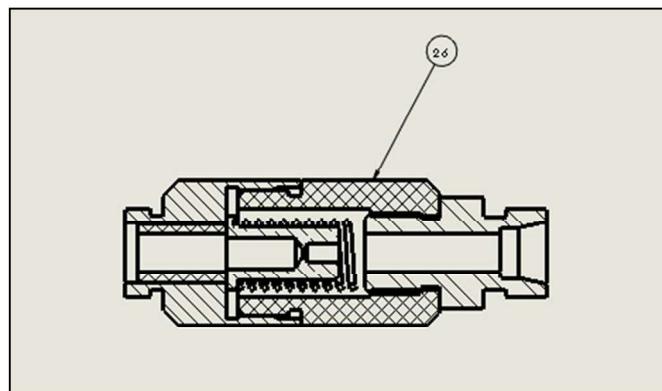
Ref	Part No	Description	Remark	QTY	KIT
1	506 38 26-01	TOOL	TORX 27	1	
2	582 45 48-01	GASKET KIT	Incl. 3-7	1	
3	579 85 11-01	GASKET		1	2
4	585 28 09-01	GASKET		1	2
5	503 26 02-05	SEALING RING		2	2
6	582 35 00-01	GASKET		1	2
7	587 53 62-01	GASKET		1	2

ENSEMBLE AVANT BRAS DE TROCONNEUSE

RAIL SAW EXTENSION ARM



ENSEMBLE AVANT BRAS DE TROCONNEUSE
RAIL SAW EXTENSION ARM


ENSEMBLE AVANT BRAS DE TROCONNEUSE
RAIL SAW EXTENSION ARM

NOMENCLATURE COMMUNE POUR TRONCONNEUSE Ø305 / Ø355 / Ø406

Rep.	Réf.	Qté	Désignation	Description
1	41006003	2	Vis H M6x16	Screw H M6x16
2	41006002	2	Rondelle Belleville Ø int 6,2	Washer inner diameter 6,2
3	31110016	1	Vis de serrage et prise de vitesse	Clamping screw
4	31210147	1	Rondelle de serrage	Clamping washer
5	41401002	1	Clavette forme A5 x 5x12	Shaped form A5 x 5 12
7	44010001	2	Roulement 6003-2RS	Ball bearing 6003-2RS
8	41801001	2	Circlips Øint 35	Circlips inner diameter 35
9	41006046	1	Vis CHc M6x35	Screw CHc M6x35
10	41106001	1	Rondelle W6	Washer W6
13	41401010	1	Clavette forme C 5 x 5x16	shaped form C5 x 5 16
14	41008020	1	Vis H M8 x 20 serrage disque	Screw H M8 x 20
15	31110020	1	Axe pour disque	Axis for disc
17	41108002	3	Rondelle ressort Øint 8,2	Washer ressort Øinner 8,2
18	41008002	1	Vis H M8 x 20	Screw H M8 x 20
19	31910179	1	Patte de maintien	Locking bushing
20	31110017	1	Manchon	Sleeve
21	41108001	3	Rondelle M8N	Washer M8N
22	40908001	2	Ecrou nylstop M8	Nut nylstop M8
23	31930046	1	Support avant-bras usiné 16 "	Extension arm support 16"
24	35910511	1	Carter de courroie	Housing for belt
25	41008003	2	Vis CHC M8x30	Screw CHCc M8x30
26	24221093	1	Sécurité électrique	Electrical safety device
28	35910340	1	Protection de pot	Silencer guard protector
29	41005005	2	Vis CHc M5x25	Screw CHc M5x25
30	41105001	2	Rondelle M5N	Washer M5N
31	31210470	2	Entretoise	Spacer ring
32	35910512	1	Carter de cloche fixe	Housing clutch fixe
33	31910326	1	Came	Cam
34	31910327	1	Plat tension courroie	Flat belt tension
35	31210482	2	Entretoise hexagonale	hexagon spacer
36	41008034	2	Vis h M8 x 12	Screw H M8 x 12

NOMENCLATURE SPECIFIQUE POUR TRONCONNEUSE Ø305 / 14221036

Rep.	Réf.	Qté	Désignation	Description
6	31210499	1	Poulie réceptrice Ø81 pour 355	Ø81 type pulley for 355
			Flasque d'entrainement pour disque Ø355 alésage 25,4	Inner driving flange for disc 14" boring 25,4
11	31210131	1		
12	31210133	1	Flasque extérieur de serrage	Outer clamping flange
16	35910007	1	Carter de disque Ø305	Disc housing 12"
27	44802006	1	Courroie poly "v" 4PK 1080mm	4PK belt 1080 mm

NOMENCLATURE SPECIFIQUE POUR TRONCONNEUSE Ø355 / 14221031 - 14221032

Rep.	Réf.	Qté	Désignation	Description
6	31210499	1	Poulie réceptrice Ø81 pour 355	Ø81 type pulley for 355
			Flasque d'entrainement pour disque Ø355 alésage 25,4	Inner driving flange for disc 14" boring 25,4
11	31210025	1		
12	31210026	1	Flasque extérieur de serrage	Outer clamping flange
16	35910006	1	Carter de disque Ø355	Disc housing 14"
27	44802006	1	Courroie poly "v" 4PK 1080mm	4PK belt 1080 mm

NOMENCLATURE SPECIFIQUE POUR TRONCONNEUSE Ø355 avec bras ressort / 14221035

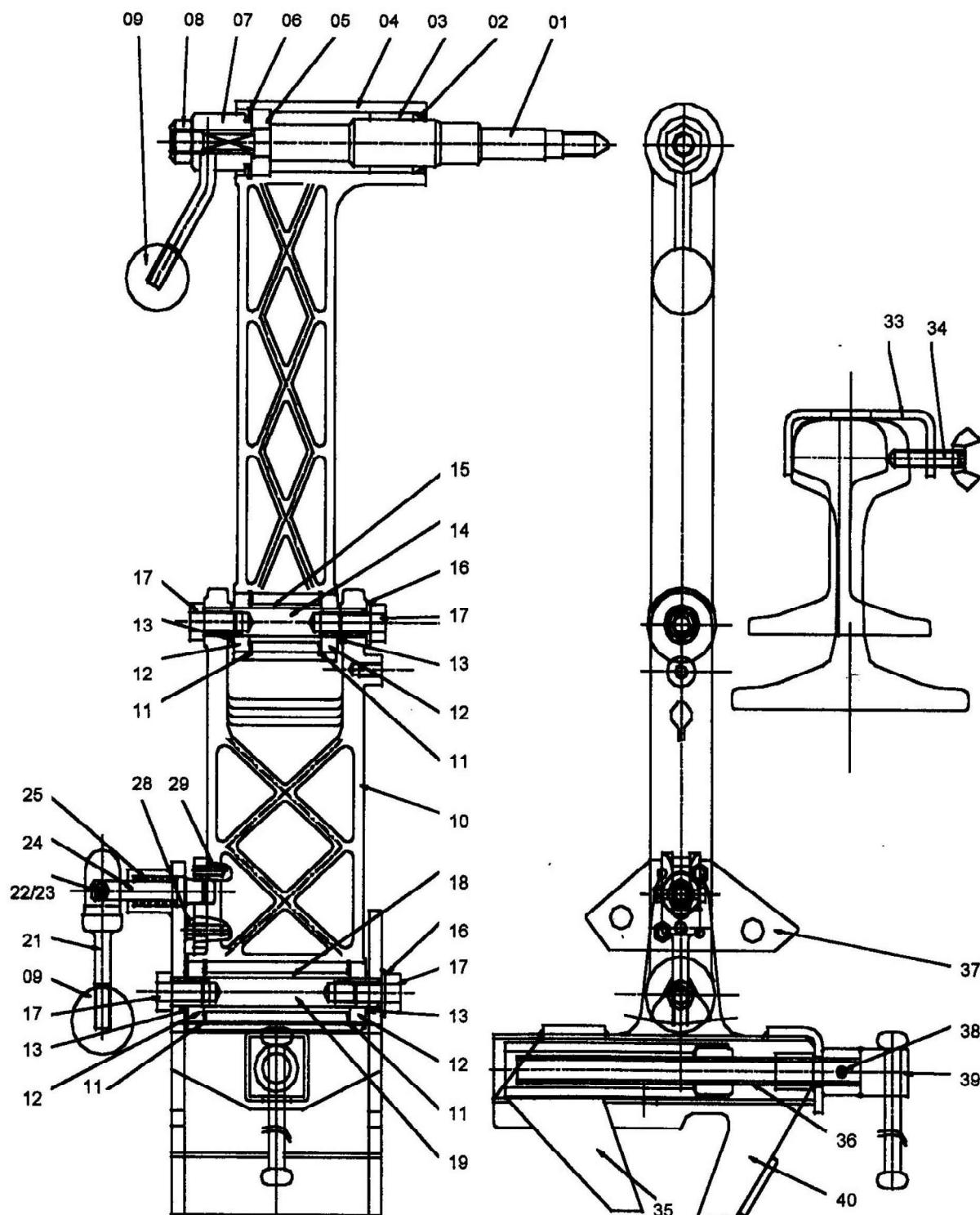
Rep.	Réf.	Qté	Désignation	Description
6	31210499	1	Poulie réceptrice Ø81 pour 355	Ø91 type pulley for 355
			Flasque d'entrainement pour disque Ø355 alésage 25,4	Inner driving flange for disc 14" boring 25,4
11	31210025	1		
12	31210026	1	Flasque extérieur de serrage	Outer clamping flange
16	35910006	1	Carter de disque Ø355	Disc housing 14"
27	48802006	1	Courroie poly "v" 4PK 1080mm	4PK belt 1080 mm
37	35910065	1	Bras de manœuvre	Handle

NOMENCLATURE SPECIFIQUE POUR TRONCONNEUSE Ø406 / 14221034

Rep.	Réf.	Qté	Désignation	Description
6	31210489	1	Poulie réceptrice Ø96 pour 406	Ø96 type pulley for 406
			Flasque d'entrainement pour disque Ø406 alésage 25,4	Inner driving flange for disc 16" boring 25,4
11	31210479	1		
12	31210480	1	Flasque extérieur de serrage	Outer clamping flange
16	35910379	1	Carter de disque Ø406	Disc housing 16"
27	48802007	1	Courroie poly "v" 4PK 1110mm	4PK belt 1110 mm

BRAS SUPPORT MACHOIRE UNIVERSELLE
SUPPORT ARM UNIVERSAL JAW

Reference 24221044





BRAS SUPPORT MACHOIRE UNIVERSELLE

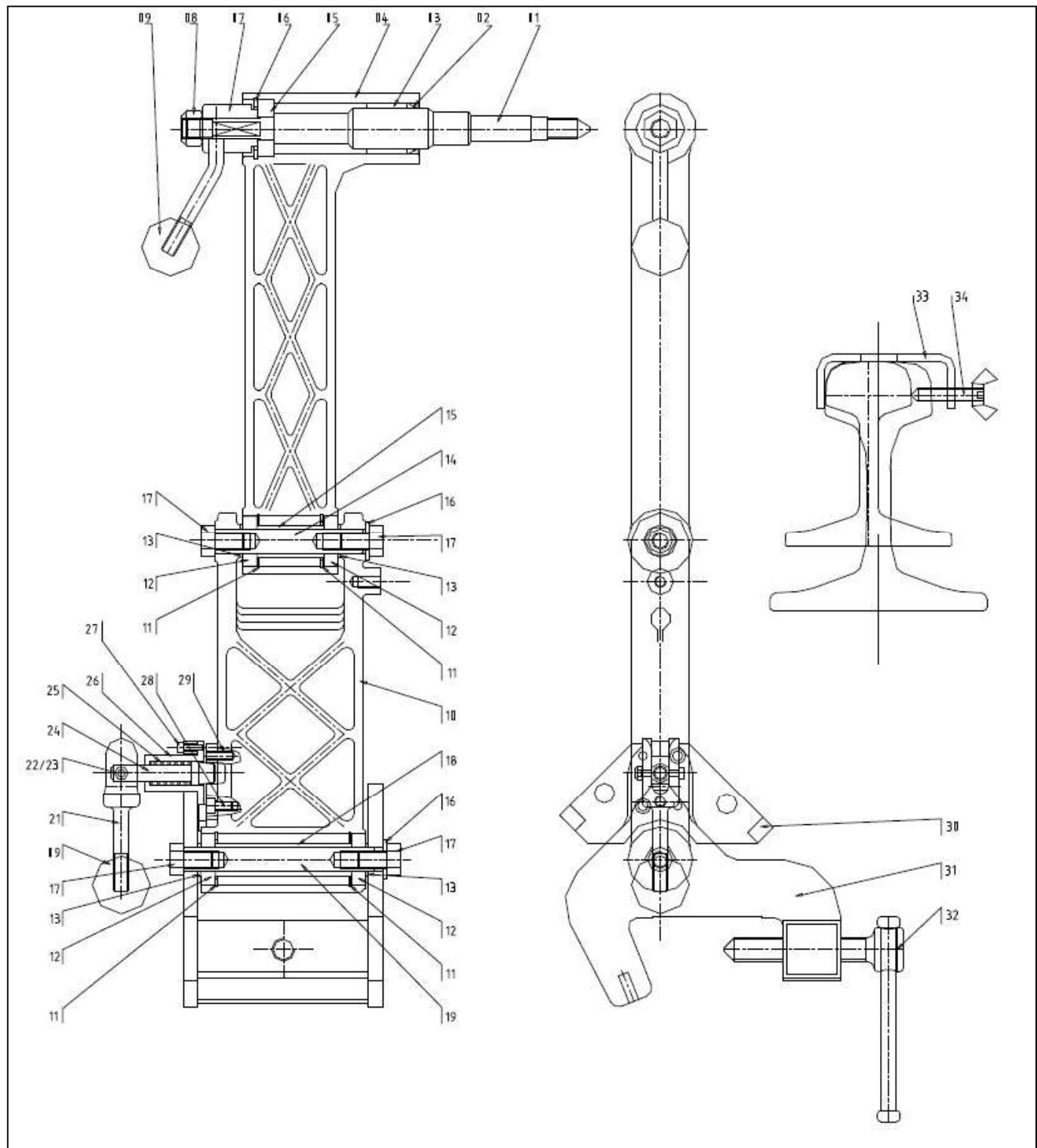
SUPPORT ARM UNIVERSEL JAW

Reference 24221044

Rep	Réf.	Qté	Désignation	Description
1	31110018	1	Axe de liaison	Connecting pin
2	44201002	1	Joint racleur	Scraping joint
3	45301001	1	Coussinet	Bearing
4	32930011	1	Bras supérieur entraxe Lg 285mm	Superior arm 285mm long
5	44010002	1	Roulement 6203 2Rs	Ball bearing 6203 2Rs
6	41801002	1	Circlips intérieur Ø 40	Inner circlips Ø 40
7	35910023	1	Levier de manoeuvre coudé	Handling elbow lever
8	40914001	1	Ecrou Nylstop M14	Nylstop nut M14
9	47404001	2	Boule bakélite Ø 40	Bakelite ball
10	32930012	1	Bras inférieur	Inferior arm
11	41801001	4	Circlips intérieur diam. 35	Inner circlips Ø. 35
12	44010001	4	Roulement 6003 2Rs	Ball bearing 6003 2Rs
13	31210055	4	Rondelle de centrage	Centering washer
14	31110148	1	Axe de pivot	Swivel-pin axle
15	31210053	1	Entretoise pour axe de pivot	Stretcher for swivel-pin axle
16	41112001	2	Rondelle M12N	M 12N washer
17	41012005	4	Vis H M12 x 20 filetée sous tête	HM12 x 20 threaded screw
18	31210054	1	Entretoise pour axe de mâchoire	Jaw axle stretcher
19	31110149	1	Axe de mâchoire	Jaw axle
21	31110150	1	Levier excentrique	Eccentric lever
22	41005002	1	Vis H M5 x 30	H M5 x 30 screw
23	40905001	1	Ecrou Nylstop M5	Nylstop nut M5
24	31110026	1	Axe de verrou	Lock axle
25	47202001	1	Ressort de verrou	spring
28	41006003	2	Vis H M6 x 16	H M6 x 16 screw
29	41301001	3	Goupille mécanindus 6 x 18	Mécanindus pin 6 x 18
24221011	1	Ensemble guide de coupe avec vis de serrage comprenant :		Cutting guide with tightening screw set including :
33	35910061	1	Guide de coupe	Cutting guide
34	31910025	1	Vis à oreilles	Screw
35	35910168	1	Croc mobile	Jaw mobile part
35b	35910208	1	Croc mobile rail piste	Jaw mobile part for Grooved rail
36	31110151	1	vis de serrage de la mâchoire	Jaw tightening screw
37	31910178	1	Butée	Inferior arm locking device
38	41301038	1	Goupille mécanindus 6 x 25	Mécanindus pin 6 x 25
39	24221034	1	Ensemble bâton/manivelle	Handling set
40	35910169	1	Mâchoire universelle	Universal jaw

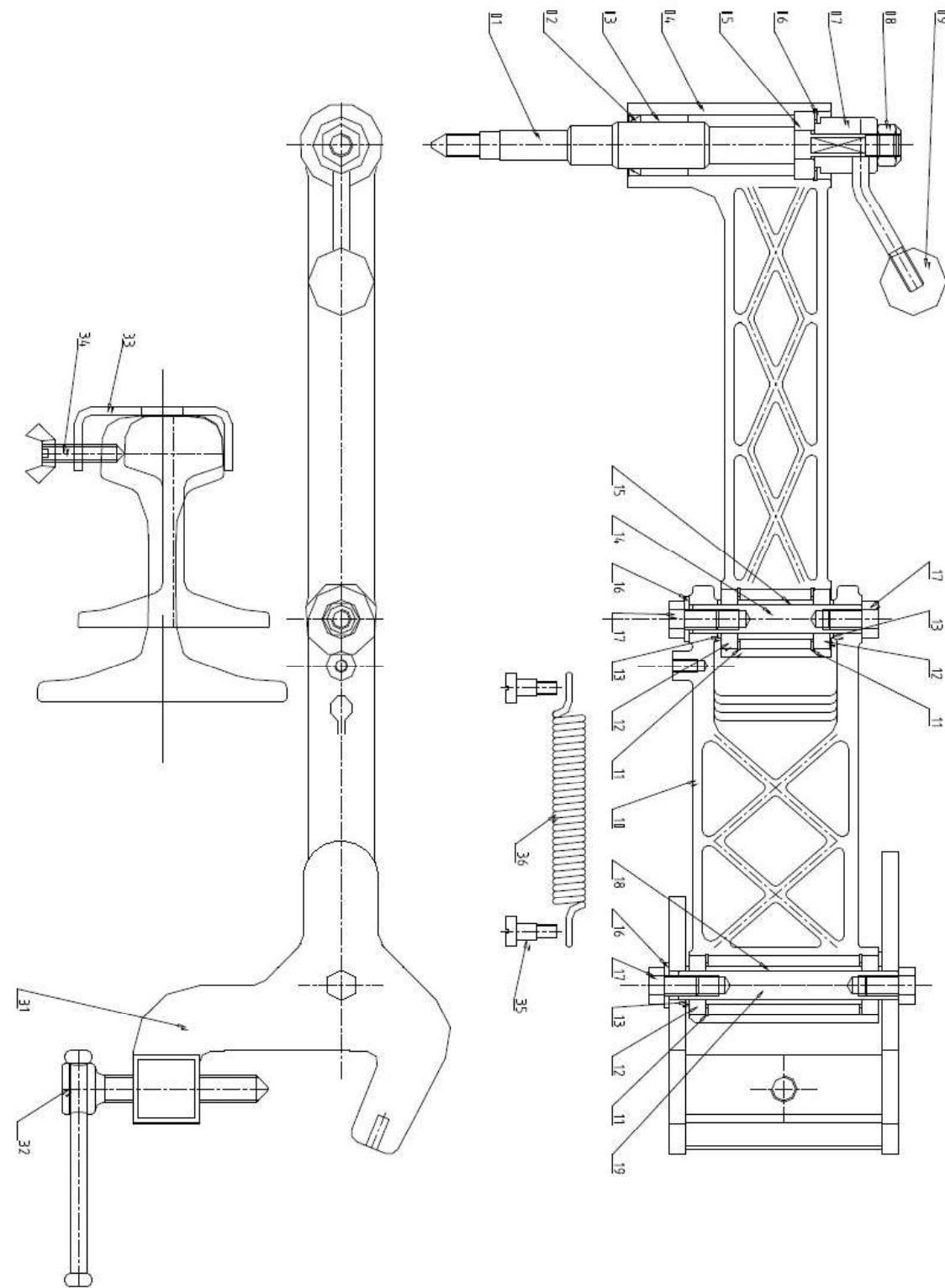
BRAS SUPPORT MACHOIRE VIGNOLE
SUPPORT ARM VIGNOLE JAW

Reference 24221002



BRAS SUPPORT MACHOIRE VIGNOLE
SUPPORT ARM VIGNOLE JAW
Reference 24221002

Rep	Réf.	Qté	Désignation	Description
1	31110018	1	Axe de liaison	Connecting pin
2	44201002	1	Joint racleur	Scraping joint
3	45301001	1	Coussinet cylindrique 28x36xLg 28	Cylindrical bearing 28x36xLg 28
4	32930011	1	Bras supérieur entraxe Lg 285mm	Superior arm 285mm long
5	44010002	1	Roulement 6203 2Rs	Ball bearing 6203 2Rs
6	41801002	1	Circlips intérieur Ø 40	Inner circlips Ø 40
7	35910023	1	Levier de manoeuvre	Lever
8	40914001	1	Ecrou Nylstop M14	Nylstop nut M14
9	47404001	2	Boule bakélite Ø 40	Bakelite ball ø 40
10	32930012	1	Bras inférieur	Inferior arm
11	41801001	4	Circlips intérieur diam. 35	Inner circlips Ø. 35
12	44010001	4	Roulement 6003 2Rs	Ball bearing 6003 2Rs
13	31210055	4	Rondelle de centrage	Centering washer
14	31110148	1	Axe de pivot	Swivel-pin axle
15	31210053	1	Entretoise pour axe de pivot	Stretcher for swivel-pin axle
16	41112001	2	Rondelle M12N	M 12N washer
17	41012005	4	Vis H M12 x 20	HM12 x 20
18	31210054	1	Entretoise pour axe bas	Stretcher for jaw axis
19	31110149	1	Axe de mâchoire	Jaw axis
21	31110150	1	Levier excentrique	Eccentric lever
22	41005002	1	Vis H M5 x 30	H M5 x 30 screw
23	40905001	1	Ecrou Nylstop M5	Nylstop nut M5
24	31110026	1	Axe de verrou	Lock axle
25	47202001	1	Ressort de verrou	spring
26	31210050	1	Corps de verrou	Lock body
	41004001	3	Vis CHC M4 x Lg 16	CHC screw 4 x Lg 16
27	41004001	3	Vis CHC M4 x Lg 16	CHC screw 4 x Lg 16
28	4100402	2	Vis CHC M6 x Lg 12	CHC screw M 6 x Lg 12
29	41301001	2	Goupille élastique fendue ø 6	Elastic pin ø 6
30	35910024	1	Secteur d'orientation pour bras inférieur	Orienting device for inferior arm
31	24221008	1	Mâchoire pour rail Vignole + vis étau	Jaw for Vignole rail with squeezing screw
32	24221010	1	Vis étau de serrage de la mâchoire	Squeezing screw for the jaw
33	35910061	1	Guide de coupe	Cutting guide
34	31910025	1	Vis à oreilles	Screw

BRAS SUPPORT MACHOIRE VIGNOLE
SUPPORT ARM VIGNOLE JAW




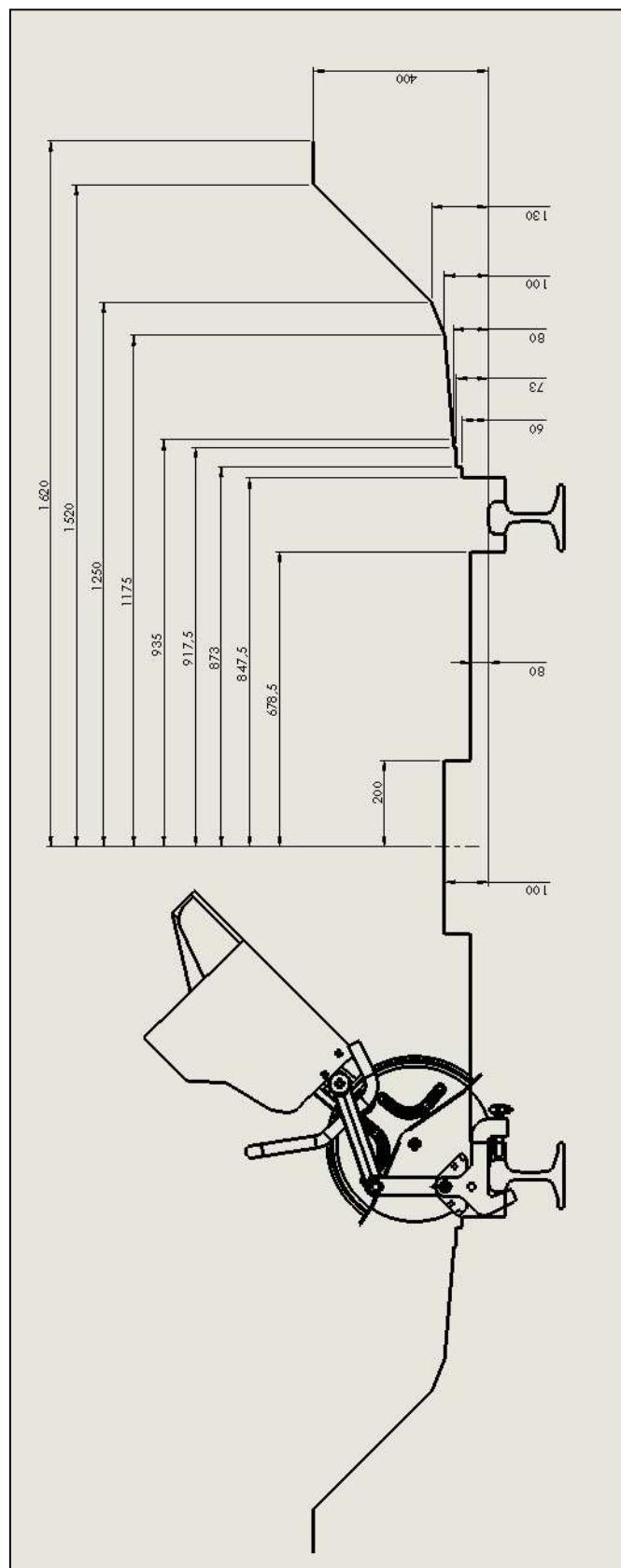
BRAS SUPPORT MACHOIRE VIGNOLE

SUPPORT ARM VIGNOLE JAW

REFERENCE 24221002

Rep	Réf.	Qté	Désignation	Description
1	31110018	1	Axe de liaison	Connecting pin
2	44201002	1	Joint racleur	Scraping joint
3	45301001	1	Coussinet cylindrique 28x36xLg 28	Cylindrical bearing 28x26x28
4	32930011	1	Bras supérieur entraxe Lg 285mm	Superior arm 285mm long
5	44010002	1	Roulement 6203 2Rs	Ball bearing 6203 2Rs
6	41801002	1	Circlips intérieur Ø 40	Inner circlips Ø 40
7	35910023	1	Levier de manoeuvre	Lever
8	40914001	1	Ecrou Nylstop M14	Nylstop nut M14
9	47404001	1	Boule bakélite Ø 40	Bakelite ball ø 40
10	32930012	1	Bras inférieur	Inferior arm
11	41801001	4	Circlips intérieur diam. 35	Inner circlips Ø. 35
12	44010001	4	Roulement 6003 2Rs	Ball bearing 6003 2Rs
13	31210055	4	Rondelle de centrage	Centering washer
14	31110148	1	Axe de pivot	Swivel-pin axle
15	31210053	1	Entretoise pour axe de pivot	Stretcher for swivel-pin axle
16	41112001	2	Rondelle M12N	M 12N washer
17	41012005	4	Vis H M12 x 20	HM12 x 20 screw
18	31210054	1	Entretoise pour axe bas	Stretcher for jaw axle
19	31110149	1	Axe de mâchoire	Jaw axle
31	24221008	1	Mâchoire pour rail Vignole + vis étau	Jaw for vignole rail with squeezing screw
32	24221010	1	Vis étau de serrage de la mâchoire	Squeezing screw fr the jaw
33	35910061	1	Guide de coupe	Cutting guide
34	31910025	1	Vis à oreilles	Screw
35	47201003	1	Ressort de traction	
36	47008021	2	Vis épaulée M8x24	Screw

IX- PLAN DE CONTROLE SUIVANT EN13977





SAV / Commercial

Contacter votre représentant commercial / Contact your local representative

Ou / Or +33 (0) 1 46 88 17 00

Ou / Or Infos.pandrol-fr@pandrol.com

X – DECLARATION DE CONFORMITE

CERTIFICATE OF CONFORMITY

Le constructeur soussigné (the undersigned manufacturer)

PANDROL (DIVISION MATERIEL)
Z.I DU BAS PRE
59590 RAISMES



Certifie que le matériel neuf désigné ci-après (certify that the under described products)

TRONCONNEUSE DE RAILS
TYPE HC 305 HC355 ET HC406
MACHOIRE UNIVERSELLE
MACHOIRE VIGNOLE
Moteur Husqvarna K1270R

ABRASIVE RAIL SAW
HC 305 HC355 AND HC 406 TYPE
with UNIVERSAL JAW
with VIGNOLE JAW
HUSQVARNA K1270R engine

N° de machine (machine number) :

Est conforme (comply with)

- **A LA CONFORME EUROPEENE NF EN 13977**
(THE EUROPEENE NORM NF EN 13977)
- **AUX DISPOSITIONS REGLEMENTAIRES DEFINIES PAR LA DIRECTIVE 2006/42/CE**
(THE INFORMATIONS STATED IN THE LEGAL DOCUMENTATION OF THE DIRECTIVE 2006/42/CE)
- **Aux prescriptions de l'article R4313-20 (procedure d'auto certification)**
(the regulations of R4313-20 article – self certification procedure)
- **M. LISINSKI Aurélien est le détenteur du dossier technique**

Raismes, 05/2019

Bruno JOIRIS
Directeur Industriel

Aurélien LISINSKI
Responsable division matériel et équipement

PANDROL

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