



Rebar Cutter Instruction & Parts Breakdown DC SERIES PORTABLE REBAR CUTTERS DC-16LZ, DCC-1618, DC-16W, DC-20WH, DC-25X, DC-32WH

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IMPORTANT: READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO USE YOUR TOOL!

Not knowing the proper operating procedures can lead to accidents. If you have any questions about any procedures, contact the nearest authorized distributor/agent or call Benner-Nawman, Inc.(800) 992-3833 or 928-684-2813.

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CUSTOMER SERVICE TOLL -FREE NUMBER: (800) 992-3833 WICKENBURG, ARIZIONA: (928) 684-2813

GENERAL SAFETY PRECAUTIONS

Use rebar cutters on maximum Grade 60 steel reinforcing bars only. These tools are not to be used in cutting other kinds of metal or materials. Do not cut ungraded rebar.

IMPORTANT:

Do not attempt to cut rebar by locking the off/on switch to the on position. This locking procedure is to be used only to warm the tool in cold climates or used with our hands free electrical box and foot operated switch. This is a safety issue and may cause damage to your rebar cutter. Always pull the on/off switch by hand for each individual cut. A foot operated switch and special electrical box are available if you want to use these cutters as production tools. Contact your local distributor or Benner-Nawman.

RESTRICT USE TO DESIGNATED MATERIALS

There is always a chance that the cut end may shoot out, especially if less than 30cm (1 foot) in length. Exceeding designated material specifications greatly increases this risk and will also damage the tool. Do not attempt to cut rebars harder, thicker or thinner than specified.

USE EYE PROTECTION

Wear safety goggles, safety glasses with side shields or a face shield when using cutter.

PROVIDE SAFETY BARRIERS

Erect safety screens to protect coworkers from possible flying ends. Place a safety screen under the rebar when working in high places.

EXERCISE PROPER CONTROL

Hold cutter firmly and maintain proper footing and balance. Do not overreach. When working in a high place, secure cutter to scaffolding with a safety rope. Check that power cord is not fouled and keep cord away from sharp edges and heat. Check that all adjusting wrenches have been removed before using cutter.

GUARD AGAINST ELECTRIC SHOCK

To avoid possible shock, do not handle cutter with wet hands or use cutter in the rain or damp places. Be aware of all power lines, electric circuits and other hazards that may be contacted, especially those that are below the surface or otherwise hidden from view. Never attempt to pick the tool up by use of the electric cord.

UNPLUG TOOL

Disconnect cutter from outlet when not in use and before cleaning, adjusting or servicing. Do not disconnect plug from outlet by pulling the cord. Always check that the switch lock is OFF before plugging in.

DO NOT CUT UNGRADED REBAR

MAINTAIN CUTTER WITH CARE

Inspect cutter before each application. Faulty or loose cutter blocks could result is personal injury. Keep handle dry, clean and free from oil and/or grease. Keep housing and piston free of dirt and iron filings. Check that no screws or bolts are loose or missing. Follow instructions for maintenance. Inspect switch, cord, plug and any extension cable at regular intervals. It is a good idea to inspect the housing for any cracks before operating.

DO NOT EXCEED MAXIMUM CUTTING PRESSURE BY ADDING TO OR MODIFYING THE HYDRAULIC PUMP.

BLEEDING YOUR PORTABLE REBAR CUTTER

You may have to bleed the hydraulics on your cutter if the tool runs unusually slow or doesn't have the pressure to cut normally. Do not run tool with low or no oil. For best results please follow these directions:

1. If piston is still moving, run the tool for 2 minutes to warm the oil inside. If the piston is not moving, add oil before warming up for 2 minutes.

- 2. When the oil is warm, run the piston out just before it returns and stop.
- 3. Remove the oil plug and top it off with oil.
- 4. Make a seal with your thumb over the oil plug opening.
- 5. Run the tool so that it makes a complete cycle.
- 6. When the piston is completely retracted in the open position, gently roll your thumb to let the unwanted air escape.
- 7. Repeat step #5 and #6 at least three times.
- 8. Add oil only when the piston is at least halfway out.
- 9. If you have to add additional oil, repeat #5 and #6.
- 10. Replace the oil plug and tighten it.
- 11. Make three or four cuts with rebar. The machine should now be working properly. Make sure that you observe exactly at what point the rebar is actually breaking.
- 12. Pinch a piece of rebar stopping just before it actually breaks.
- 13. Remove the oil plug again and top off the reserve one more time.
- 14. Replace the oil plug and tighten
- 15. The operation is now complete.

We recommend the following 20-wieght Non-Detergent Hydraulic Oils for use with our tools (anti-foam anti-abrasion): Tellus 68 (Shell), Rando HD 68 (Texaco) or Chevron AW 68 (Chevron). Hydraulic oil can also be ordered in quart containers from your Diamond Tool Distributor.

OPERATING INSTRUCTIONS

CAUTION: Indicates hazard that could result in minor personal injury and/or product damage.

CARE: Indicates hazard that will result in product damage.

PRE-USE CHECKS

- 1. Check oil level. (See Maintenance)
- 2. Check condition of cutter blocks and tightness of cutter block bolts. (See Maintenance) CHECK FOR CRACKS IN HOUSING

CAUTION: Using loose or cracked cutter blocks may result in injury to operator as well as damage to the tool.

3. Check that the power source is appropriate to the cutter.

CARE: If voltage is too high, the motor will burn out. If voltage is too low, insufficient power will be generated. Never use DC current.

4. Check that power supply is properly grounded.

CAUTION: Failure to ground power supply may result in electric shock to operator (DC-16LZ, DC-16W and DC-32WH have double-insulated motors and do not require grounding.)

5. Check that cord is undamaged and that plug is not loose.

CAUTION: Cut or abraded covering could result in a short and Electric shock to operator.

6. If an extensions cable is to be used, make sure that it is undamaged and that it is the proper wire gauge thickness for the length. See table below.

Length	110/115 50/60 Hz Cable Size (AWG)
Up to 15mm (50 ft.)	14
Up to 30mm (100 ft.)	12
Up to 45mm (150 ft.)	10

7. Before plugging in the tool, make sure that the switch lock is OFF.

CAUTION: If switch lock is ON, cutter will start as soon as it is plugged in. To disengage lock, pull trigger-switch and press lock-button, which will pop out.

WARM-UP

In cold weather you should warm up the tool unit for 30-60 seconds so that the hydraulic oil reaches the proper viscosity. Pull trigger-switch to extend piston and release when it has reached its full stroke. Repeat 15-20 times.

STOPPER BOLT ADJUSTMENT

THE STOPPER BOLT IS PROB-ABLY THE MOST IMPORTANT PART OF YOUR PORTABLE CUTTER...

The adjustable stopper functions to maintain the rebar in the correct position during cutting and must be properly set for each size of rebar before use.

- 1. Screw in stopper to provide suf cient clearance for rebar.
- 2. Insert rebar fully into U-shaped support. Make sure that rebar is resting on the base of the support.
- 3. Keeping rebar at right angles (90 degrees) to front cutter block, screw out stopper until it is just touching the rebar. Once set, the stopper needs no further adjustment while cutting rebar of the same diameter, but must be reset for a different size rebar.

CAUTION: Failure to correctly set the stopper bolt will result in excessive wear of cutter blocks and may cause cut end to fly out. This will also lead to piston and cylinder damage.

CUTTING

- 1. Insert rebar between stopper and front cutter block, making sure that it is properly seated in U-shaped support.
- 2. Pull trigger-switch and keep depressed while piston advances and rebar is cut. (If switch is released at an intermediate point, piston will stop.)
- 3. When cut is completed, release switch. Piston retracts automatically (Note that switch cannot be reactivated until piston has fully retracted.)

POINTS OF ATTENTION

1. Be especially careful when cutting off short lengths (30cm/12" or less) as the cut end tends to fly out.

CAUTION: Flying ends are a hazard to all personnel in the vicinity. Erect safety screens.

2. Do not cover air vents or operate the tool on dirt – use a plywood base under the rebar cutter to keep armature and fan clean

CARE: If the vents are covered, the motor will overheat and may burn out.

- 3. If hydraulic oil exceeds 70 degrees C (158 degrees F) in temperature, power will drop. Allow unit to cool before resuming operation. (Be particularly careful in summer, when the aluminum pump case heats up quicker.)
- 4. If a drop in power is observed and motor is unusually hot, check carbon-brushes. (See maintenance)
- 5. If piston should ever fail to retract completely, push rear cutter block backwards to manually retract piston or check under piston to remove and debris keeping the piston from retracting.

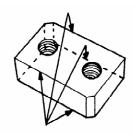
CAUTION: Use a rebar or flat metal bar for this purpose. Never push cutter block with any part of the hand, even if gloved.

NOTE: Rebar cutters manufactured in after 2007 have a safety release valve for retracting the piston if it doesn't return to the start position. This is usually caused by cutting improperly seated rebar that becomes jammed between the cutting blocks. On these newer models simply rotate the Allen set screw a quarter turn to retract the piston. On the DC-20WH, see parts breakdown part #64 for location of this release valve.

Once piston has been retracted, pull trigger-switch long enough to partially advance piston. Unplug unit. Check piston and housing for accumulated dirt and iron filings that may be jamming the piston. (See Maintenance) If, after cleaning, piston still does not automatically retract when fully extended, the piston itself may be damaged. Return the unit to an authorized repair center or Benner-Nawman for repair.

MAINTENANCE ON CUTTER BLOCKS

Before using, always check that the two bolts on each cutter block are properly tightened. Using a loose block will result in damage to block and housing. Also check condition of cutter blocks. If either cutting edge is dull or chipped, remove retaining bolts and rotate both blocks so that two new edges come into use. Replace and tighten bolts. (Each block has four cutting edges.) When all four cutting edges have been used or if either block is cracked or otherwise damaged, replace both blocks.



CAUTION: A loose or cracked block may result in injury to operator.

CLEANING

Clean your tool every day, preferably im mediately after use.

CAUTION: Wear gloves to protect hands from metal splinters.

Do not use an air gun: blasting with air can cause metal filings and/or dust to get into eyes and respiratory system.

Disconnect the unit. Wipe or brush away all dirt and metal filings. Pay particular attention to the lower half of the piston, where dirt is more easily accumulated.

NEVER USE YOUR CUTTER TO CUT REBAR IN WET CONCRETE.

OIL-LEVEL CHECK

As the cutters are hydraulically operated, the oil-level must be checked at frequent intervals, preferably every day. Failure to maintain the oil at the proper level results in a drop in pressure and loss of cutting power.

CAUTION: Hydraulic oil is highly flammable. Keep away from sparks and naked flame. Do not smoke.

CAUTION: Hydraulic oil may cause inflammation of the eyes and skin. If ingested, it will cause diarrhea and vomiting. In case of eye contact, rinse in clean water for at least 15 minutes and consult a physician. In case of skin contact, wash thoroughly with soap and water. In case of ingestion, consult a physician immediately. Do not induce vomiting.

- 1. Oil should be warm but not hot. Warm up unit if cold.
- 2. Adjust stopper and make three or four cuts, noting exactly at what point the rebar is actually breaking.
- 3. Pinch a short piece of rebar, stopping just before it breaks off. Unplug unit from power source.
- 4. With partially severed rebar in place, oil-plug should be straight up. (If unit is hot, allow cooling down.)
- 5. Remove oil-plug and seal-washer (packing).

CAUTION: Never remove oil-plug when unit is hot or oil will spurt out.

6. Check that oil is level with bottom of plug hole (i.e. that pump case if full to the brim).

If oil level is too low, top up with 20-weight hydraulic oil with anti-foam and anti-abrasion properties (ISO viscosity grade VG46, e.g. Shell oil Tellus 68, Mobil oil DTE-25 or Esso Uni power SQ46).

7. After topping off, extract air from system. Gently tilt cutter lengthwise and return it to a level position. Top off again and tilt in the opposite direction. Repeat this process until all air has been extracted.

CARE: Cutter cannot function properly if oil contains air bubbles.

8. Replace seal washer (packing) and oil plug. Connect cutter to power source and completely sever rebar.

OIL-CHANGE

The hydraulic oil should be changed at least once a year, sooner if it appears dirty.

NOTE: Hydraulic oil should be warm before draining

- 1. Unplug unit from power source. Remove oil-plug and packing. Turn cutter over and drain oil into a suitable receptacle. When oil ceases to drain out, tilt unit to rear so that oil trapped in the piston housing can run out. When housing is empty, tilt unit in the opposite direction to empty the residue in the pump case.
- 2. With drain-hole uppermost, slowly fill the unit with fresh oil. Replace plug and lightly tighten. Connect unit to power source and advance piston two or three times. Unplug unit and remove oil-plug. Top off oil-level and replace plug.
- 3. Finally, follow procedure for oil-level check. (Steps 2-8)

NOTE: Dispose of hydraulic oil in accordance with local regulations. Do not pour into the sea, a river, a lake or drains.

BOLT TIGHTNESS

Once a week, or after every 500 cuts, check the tightness of all bolts; especially those bolts securing the housing to the cylinder. Loose bolts will result in a loss of power. Make sure that the bolts holding both cutter blocks are also tight

CARBON BRUSHES

Inspect the two carbon brushes at least once every two months. (Nominal brush life is 200 hours).

CARE: Worn brushes will result in power loss, cause the motor to run hot and irreparably damage the armature.

- 1. Disconnect unit.
- 2. Unscrew both brush caps and pull out carbon brushes.
- 3. Replace brushes if less than 6mm or 1/4" in length.

OVERHAUL

Return the unit to an authorized agent for overhaul at least once every two years, sooner if subjected to heavy use. Call (800) 992-3833

GENERAL SAFETY RULES

WARNING: Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE INSTRUCTIONS WORK AREA SAFETY

Keep work area clean and well lit. Cluttered or dark areas invite accidents.

Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

ELECTRICAL SAFETY

Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

When operating a power tool outdoors, use an extension cord suitable to outdoor

use. Use a cord suitable for outdoor use reduces the risk of electric shock.

PERSONAL SAFETY

Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

Avoid accidental starting. Ensure the switch is in the off-position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.

Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust-related hazards.

POWER TOOL USE AND CARE

Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed

Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventative safety measures reduce the risk of starting the power tool accidentally.

Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tools or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

Maintain power tools. Check for misalignment or binding or moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

SERVICE

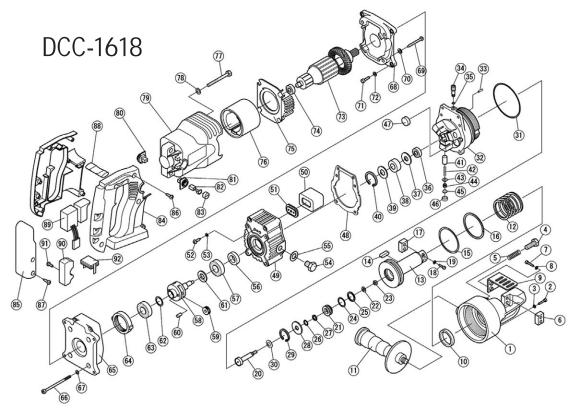
Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

For a Service Repair Center nearest you please call (800)992-3833 or go on- line www.bnrebartools.com



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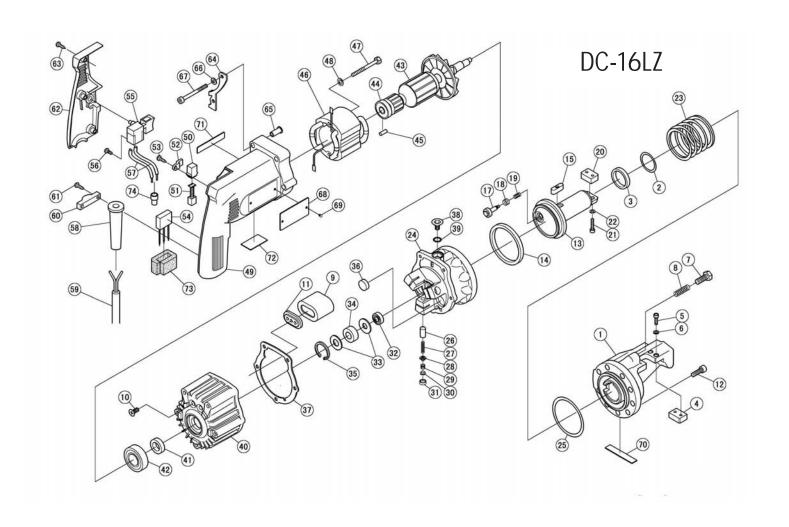
Fax: (928) 684-7041



DCC-1618 Rebar Cutter		
1	1C2059500	HOUSING
2	7CB05035	CAP BOLT M5x35
3	7CW1005F0	SEAL WASHER M5
4	7B810025	STOPPER BOLT M10x25
5	1C4079400	LOCK SPRING
6	1CL003	CUTTER BLOCK NO. 13L
7	7CB05022	CAP BOLT M5x22
8	7SW005	SPRING WASHER M5
9	1C4199500	CUTTER GUARD
10	7USI26	USI PACKING USI26
11	1C1627	SIDE HANDLE
12	1C4139602	RETURN SPRING
13	1C3097800	PISTON
14	1C4139702	PISTON KEY
15	7ORP49RF	O RING
16	7BRP49B	BACK UP RING P49
17	1CL003	CUTTER BLOCK NO. 13L
18	7CB05016	CAP BOLT M5x16
19	7GW005	WASHER
20	1C4138500	RETURN VALVE
21	1C4152300	RETURN VALVE GUIDE
22	7PWS005	PLATE WASHER
23	7NU005	U NUT M5
24	7ORP16	O RING P16
25	7BRP16B	BACK UP RING P16
26	7SPNC8	SPNC PACKING SPNC8
27	7BRP8B	BACK UP RING P8
28	1CB4104002	GUIDE CLAMP
29	7SRH26	SNAP RING H26
30	7SB08L	DISC SPRING
31	7ORG70RF	O RING G70

34 1C-4 35 7OI 36 763 37 1C-4 38 7RI 39 1C-4 40 7SI 41 1C-4 42 1C-4 43 1C-4 45 1C-4 46 1C-4 47 3P-	P03010 4196500 RS4 35 4103000 NAF81510 4137200 RH20 4103200 4197100	SPRING PIN RELEASE VALVE O RING S4 BALL BEARING BEARING GUIDE NEEDLE BEARING BEARING GUIDE SNAP RING RAM
35 701 36 763 37 104 38 7RI 39 104 40 7SI 41 104 42 104 43 106 44 106 45 106 46 106 47 3P	RS4 35 4103000 NAF81510 4137200 RH20 4103200	O RING S4 BALL BEARING BEARING GUIDE NEEDLE BEARING BEARING GUIDE SNAP RING
36 763 37 1C4 38 7RI 39 1C4 40 7SI 41 1C4 42 1C4 43 1C7 44 1C7 45 1C7 46 1C7 47 3P	35 4103000 NAF81510 4137200 RH20 4103200	BALL BEARING BEARING GUIDE NEEDLE BEARING BEARING GUIDE SNAP RING
37 1C4 38 7RI 39 1C4 40 7SI 41 1C4 42 1C4 43 1C6 44 1C6 45 1C6 47 3P6	4103000 NAF81510 4137200 RH20 4103200	BEARING GUIDE NEEDLE BEARING BEARING GUIDE SNAP RING
38 7RI 39 1C- 40 7SI 41 1C- 42 1C- 43 1C- 44 1C- 45 1C- 46 1C- 47 3P-	NAF81510 4137200 RH20 4103200	NEEDLE BEARING BEARING GUIDE SNAP RING
39 1C-40 7Si 41 1C-42 1C-43 1C-44 1C-45 1C-46 1C-47 3P-	4137200 RH20 4103200	BEARING GUIDE SNAP RING
40 7SF 41 1C- 42 1C- 43 1C- 44 1C- 45 1C- 46 1C- 47 3P-	RH20 4103200	SNAP RING
41 1C4 42 1C4 43 1C 44 1C 45 1C 46 1C 47 3P	4103200	
42 1C- 43 1C- 44 1C- 45 1C- 46 1C- 47 3P-		RAM
43 1C° 44 1C° 45 1C° 46 1C° 47 3P°	4197100	
44 1C 45 1C 46 1C 47 3P		RAM RETURN SPRING
45 1C 46 1C 47 3P	1973	DELIVERY VALVE
46 1C	1331	DELIVERY VALVE SPRING
47 3P	13352	SPRING GUIDE
	13292	PUMP HEAD SEAL
48 1C4	1044	MAGNET FILTER
	4143403	PUMP CASE PACKING
49 1C	2044700	PUMP CASE
50 1C4	4137300	AIR BAG
51 1C4	4137400	AIR BAG NUT
52 7N	T04012	SCREW D4x12
53 75\	W004	SPRING WASHER M4
54 1C	1304	BOLT M10x8
55 1C	1305	SEAL WASHER WF10
56 7S0	C12257	OIL SEAL
57 769	901ZZ	BALL BEARING 6901ZZ
58 1C	3107400	CAM SHAFT
59 1C4	4196600	IDLE GEAR
60 1C4	4196700	NEEDLE ROLLER
61 1C4		COLLAR
62 7RI	4196800	
63 769	4196800 F172450	SHIM RING

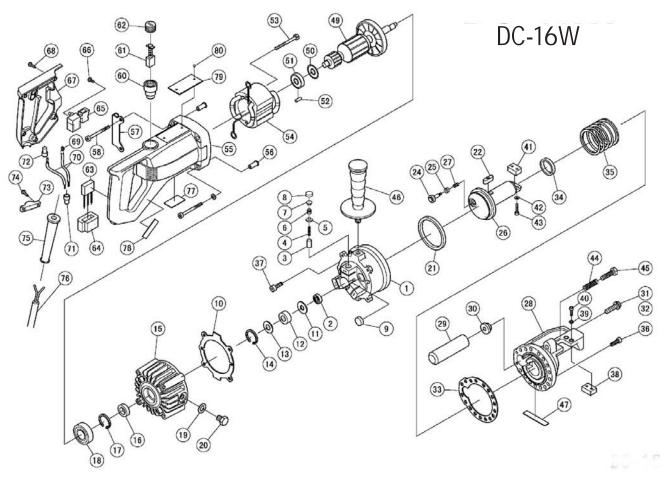
64	7302337	RING GEAR
		
65	1C2062100	DISTANCE PIECE
66	7CB05065	CAP BOLT M5x65
67	7GW005	WASHER M5
68	1C2062000	DISTANCE PIECE
69	7NT05030	TAPPING SCREW M5x30
70	7SW005	SPRING WASHER M5
71	7CB05016	CAP BOLT M5x16
72	7GW005	WASHER M5
73	7360779	ARMATURE WITH CAM
74	7608VV	BALL BEARING 608VV
75	7319788	FAN GUIDE
76	7319846	MAGNET
77	7HT04060	TAPPING SCREW
78	7PW004	PLATE WASHER M4
79	7322062	MOTOR HOUSING
80	7319813	BRUSH HOLDER (A)
81	7319814	BRUSH HOLDER (B)
82	7999058	CARBON BRUSH
83	7319847	BRUSH CAP
84	7322063A	HANDLE A (R)
	7322063B	HANDLE B (L)
85	7319790	GRIP COVER
86	7FNS04030	TAPPING SCREW 4x30
87	7FNS04025	TAPPING SCREW 4x25
88	7319865	PUSH BUTTON
89	7319861	SWITCH
90	7319812	HEAT SINK
91	7P304012	TAPPING SCREW
92	7321647	TERMINAL PIECE SET



DC-16LZ Rebar Cutter		
1	1C2025700	HOUSING (DC-16LZ)
2	70RP30	O RING P30
3	1C16021	SEAL PACKING SKY30
4	RB-16LZ	CUTTER BLOCK SET
5	7CB05015	CAP BOLT M5XM15
6	7SW0005	SPRING WASHER M5
7	7B810025	STOPPER BOLT M10X25
8	1C4079400	LOCK SPRING
9	1C4078900	AIR BAG
10	7ST0612	TAPPING SCREW (+) 6×12
11	1C4079000	AIRBAG NUT
12	7CB08022	CAP BOLT M8X22
13	1C3039700	PISTON
14	7FU0825L0	SEAL PACKING OSI66-56-6
15	1C4079701	PISTON KEY 7X8X24
17	1CL0123	RETURN VALVE
18	1CL0143	RETURN VALVE SPRING
19	1C1922	VALVE END SPRING
20	SEE 6	SEE 6
21	7CB05015	CAP BOLT M5X15
22	7SW0005	SPRING WASHER M5
23	1CL016	RETURN SPRING
24	1C2025600	CYLINDER

25	70RG60	O RING
26	1C1971	RAM
27	1C1972	RAM RETURN SPRING
28	1C1973	DELIVERY VALVE
29	1C1331	DELIVERY VALVE SPRING
30	1C13352	SPRING GUIDE
31	1C13292	PUMP HEAD SEAL
32	3P1030	BEARING 608
33	1C1325	BEARING GUIDE
34	1C1340	NEEDLE BEARING
35	1C1326	SNAP RING H27
36	3P1044	MAGNET FILTER
37	1C4079300	PUMP CASE PACKING
38	7SB0812	OIL PLUG M8×12
39	70RP10	O RING P-10
40	1C2025800	PUMP CASE
41	1C1342	OIL SEAL
42	76002VV	BALL BEARING 6002VV
43	3V0001E	ARMATURE WITH CAM
44	7608VV	BALL BEARING
45	1CL001P	BEARING LOCK
46	3V0001D	STATOR COIL
47	7HT04070	TAPPING SCREW D4X70
48	7SW0004	SPRING WASHER M4

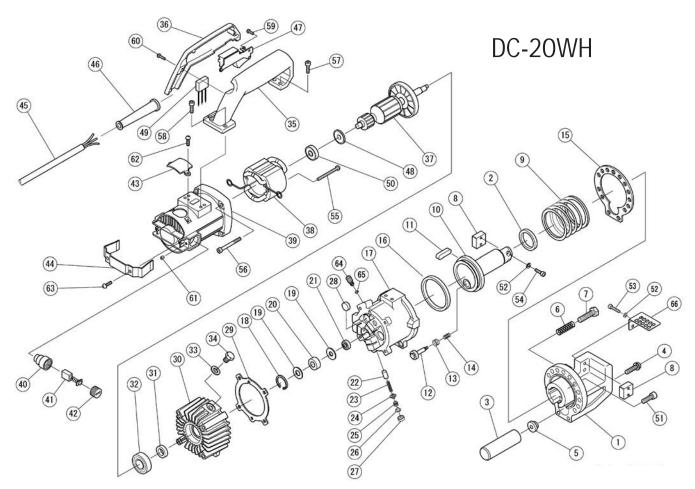
49	3V0001K	MOTOR HOUSING
50	1CL001C	BRUSH HOLDER
51	1C1361A	CARBON BRUSH SET
52	3V0001P	HOLDER PIECE
53	7NS04016	TAPPING SCREW D4X16
54	3V0001W	CONDENSER
55	4V0001N	SWITCH
56	7WB035006	SCREW M3.5X6
57	3V0001R	LEAD WIRE
58	3V0001Z	CORD ARMER
59	4V001V	CORD SET
60	1CL001Q	CORD CLIP
61	7FNS04016	TAPPING SCREW D4X16
62	3V0001L	HANDLE COVER
63	7WNS04020	TAPPING SCREW D4X20
64	3V0001V	FOOT
65	3V0001S	SLEEVE
66	7PW0005	PLATE WASHER M5
67	7CB05075	CAP BOLT M5X75
68		NAME PLATE
69	7R020032	RIVET
73	1CL001R	SUPPORT B
74	1CL001M	CONNECTOR
75	1DBR2943	STEEL BALL 5/32



DC-16W Rebar Cutter		
1	1CW0001	CYLINDER (DC 16X)
2	1CW0003	BALL BEARING 698
3	1C1327	RAM
4	1C1330	RAM RETURN SPRING
5	1C13281	DELIVERY VALVE
6	1C1331	DELIVERY VALVE SPRING
7	1C13352	SPRING GUIDE
8	1C13292	PUMP HEAD SEAL
9	3P1044	MAGNET FILTER
10	1C1615	PUMP CASE PACKING
11	1C1325	BEARING GUIDE
12	1C1340	NEEDLE BEARING
13	1C1325	BEARING GUIDE
14	1C1326	SNAP RING H27
15	4V0001A	PUMP CASE
16	7SD15257	OIL SEAL
17	7HR26	SNAP RING H26
18	76002VV	BALL BEARING 6002VV
19	1C1305	SEAL WASHER
20	1C1304	OIL PLUG M10x15
21	1C1604	SEAL PACKING
22	1C16182	PISTON KEY
24	1C1319	RETURN VALVE
25	1CL0143	RETURN VALVE SPRING
26	1C16172	PISTON
27	1C1323	VALVE END SPRING

28	1C16012	HOUSING
29	1C1616	AIR BAG
30	1C1620	AIR BAG NUT
31	7SW0008	SPRING WASHER M8
32	1CM2-28	AIR BAG SET BOLT
33	1C16142	CYLINDER PACKING
34	1C16021	SEAL PACKING SKY30
35	1C16052	RETURN SPRING
36	7CB06020	CAP BOLT M6x20
37	7CB06020	CAP BOLT M6x20
38	RB-16X	CUTTER BLOCK SET
39	7SW0005	SPRING WASHER M5
40	7CB05018	CAP BOLT M5x18
41	SEE 38	SEE 38
42	7GW0005	WASHER M5
43	7CB05015	CAP BOLT M5x15
44	1C1603	LOCK SPRING
45	7B810040	STOPPER BOLT M10X40
46	1C1627	SIDE HANDLE
47	7DN167	STICKER
49	4V0001B	ARMATURE WITH CAM
50	4V0001J	DUST SEAL (A)
51	7608VV	BALL BEARING 608VV
52	4V0001G	BEARING LOCK
53	7WNS05060	TAPPING SCREW D5x60
54	4V0001C	STATOR COIL
55	4V0001H	MOTOR HOUSING

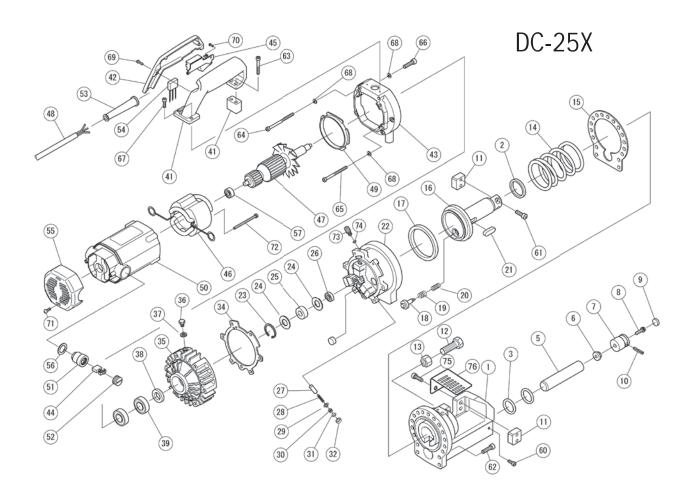
56	4V0001K	SLEEVE
57	4V0001L	FOOT
58	7CB05080	CAP BOLT M5x80
59	7SS04005	SET SCREW M4x5
60	4V0001D	BRUSH HOLDER
61	1C1961A	CARBON BRUSH SET
62	4V0001E	BRUSH CAP
63	4V0001P	CONDENSER
64	4V0001Q	SUPPORT (B)
65	4V0001N	SWITCH
66	7WB035006	SWITCH BOLT M3.5X6
67	4V0001M	SWITCH COVER
68	7WNS04020	TAPPING SCREW D4X20
69	4V0001S	TERMINAL
70	4V0001T	LEAD WIRE
71	4V0001U	CONNECTOR 50091
72	4V0001W	CONNECTOR 50092
73	4V0001R	CORD CLIP
74	7FNS04016	TAPPING SCREW D4X16
75	4V0001X	CORD ARMER
76	4V0001V	CORD SET
77	7DN018	STICKER
78	7DN121	STICKER
79	7DN202	NAME PLATE
80	7R020032	RIVET



	DC-20WH Rebar Cutter		
No.	Part No.	Part Name	
1	1CM20012	HOUSING	
2	1CM2002	SEAL PACKING SKY35	
3	1C1958	AIR BAG	
4	1CM2028	AIR BAG SET BOLT	
5	1CM2027	AIR BAG NUT	
6	1C1603	LOCK SPRING	
7	7B10038	STOPPER BOLT M10X38	
8	RB-20XH	CUTTER BLOCK SET	
9	1C1920	RETURN SPRING	
10	1C19171	PISTON	
11	1C1936	PISTON KEY	
12	1C1319	RETURN VALVE	
13	1C1921	RETURN VALVE SPRING	
14	1C1922	VALVE END SPRING	
15	1CM2025	CYLINDER PACKING	
16	1C1918	SEAL PACKING	
17	1C2061500	CYLINDER	
18	1C1326	SNAP RING H27	
19	1C1325	BEARING GUIDE	
20	1C1340	NEEDLE BEARING	
21	1CW0003	BALL BEARING 698	
22	1C1327	RAM	

No.	Part No.	Part Name
23	1C1330	RAM RETURN SPRING
24	1C13281	DELIVERY VALVE
25	1C1331	DELIVERY VALVE SPRING
26	1C13352	SPRING GUIDE
27	1C13292	PUMP HEAD SEAL
28	3P1044	MAGNET FILTER
29	1C1951G	PUMP CASE PACKING
30	1C2059900	PUMP CASE
31	1C1342	OIL SEAL SC15-25-7
32	1C1941	BALL BEARING 6004VV
33	1C1305	SEAL WASHER WF10
34	1C1304	OIL PLUG M10X15
35	1C1944B/C	MAIN HANDLE
36	1C1946	SWITCH COVER
37	1C19612E	ARMATURE ASS'Y
38	1C1961D	STATOR COIL
39	1C1961K	MOTOR HOUSING
40	1C1961J	BRUSH HOLDER
41	1C1961A	CARBON BRUSH SET
42	1C1961H	BRUSH CAP
43	1C1961SC	SIDE COVER
44	1C1961TC	TAIL COVER

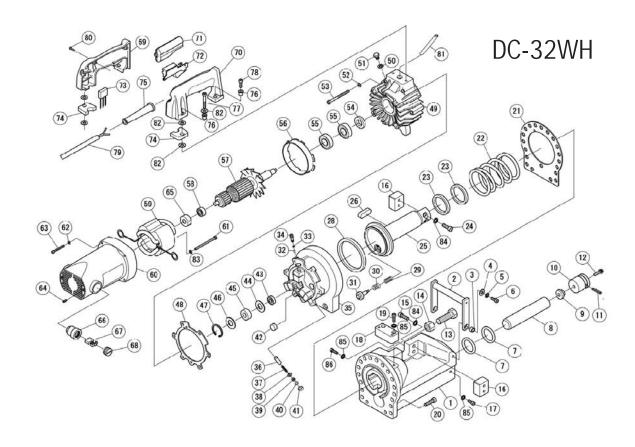
No.	Part No.	Part Name
45	1C1961F	CORD SET
46	1C1961I	CORD ARMER
47	1C1961B	SWITCH
49	1C1961L	CONDENSER
50	1C1961M	BALL BEARING 6000VV
51	1C1912	CAP BOLT M8X25
52	1C1311W	SPRING WASHER M5
53	1C1311B	CAP BOLT M5X25
54	1C1313	CAP BOLT M5X18
55	7P205055	PAN HEAD BOLT M5X55
56	1C1949	CAP BOLT M6X90
57	1BR5092	CAP BOLT M6X16
58	1C1945	CAP BOLT M6X18
59	7PB04008	PAN HEAD BOLT M4X8
60	1C1947	PAN HEAD BOLT M4X15
61	7SS05008	SET SCREW M5X8
62	7PB04008	PAN HEAD BOLT M4X8
63	7PB05010	PAN HEAD BOLT M5X10
64	1C4160601	RELEASE VALVE
65	7ORS4	O RING
66	1C4195900	CUTTER GUARD



	DC-25X Rebar Cutter		
No.	Part No.	Part Name	
1	1C2601B	HOUSING	
2	1C2602	SEAL PACKING	
3	70RP32	O RING P32	
5	1C2570	AIR BAG	
6	1CM2027	AIR BAG NUT	
7	1C2620B	HOUSING CAP	
8	1CM2028	AIR BAG SET BOLT	
9	1C1505	AIR FILTER	
10	7SP06030	SPRING PIN D6X30	
11	RB-25X	CUTTER BLOCK SET	
12	7B16050	S BOLT M16X50	
13	7N8016	STOPPER NUT M16	
14	1C2607	RETURN SPRING	
15	1C2614	CYLINDER PACKING	
16	1C2604	PISTON	
17	1C2518	SEAL PACKING	
18	1C2519	RETURN VALVE	
19	1C2521	R VALVE SPRING	
20	1C2522	VALVE END SPRING	
21	1C2605	PISTON KEY	
22	1C1024200	CYLINDER	
23	1C2526	SNAP RING H35	
24	1C2525	BEARING GUIDE	
25	1C2534	NEEDLE BEARING	
26	1C2609	BALL BEARING 609	

No.	Part No.	Part Name
27	1C2610	RAM
28	1C1330	R RETURN SPRING
29	1C13281	DELIVERY VALVE
30	1C1331	D VALVE SPRING
31	1C13352	SPRING GUIDE
32	1C13292	PUMP HEAD SEAL
33	3P1044	MAGNET FILTER
34	1C2615	PUMP CASE PACKING
35	1C25398	PUMP CASE
36	1C1304	OIL PLUG M10X15
37	1C1305	SEAL WASHER WF10
38	1C2542	OIL SEAL SC20-35-8
39	1C1941	BEARING 6004VV
40	1C2616	HANDLE PRESS
41	1C1944B/C	MAIN HANDLE
42	1C1946	SWITCH COVER
43	1C2611	CASE COVER
44	1C2612A	CARBON BRUSH SET
45	1C1961B	SWITCH
46	1C2612B	STATOR COIL
47	1C2612C	ARMATURE
48	1C1961F	CORD
49	1C2612D	FAN COVER
50	1C2612E	MOTOR HOUSING
51	1C2612F	BRUSH HOLDER

No.	Part No.	Part Name
52	1C2612G	BRUSH CAP
53	1C1961I	CORD ARMER
54	1C2612H	CONDENSER
55	1C2612I	MOTOR COVER
56	7956683	INSULATION PAPER
57	1C2612J	BALL BEARING 6200VV
60	1BR5092	CAP BOLT M6×16
61	1C1912	CAP BOLT W/WASHER
62	1C1911B	CAP BOLT M8×30
63	7CB06045	CAP BOLT M6×45
64	1C1949	CAP BOLT M6×90
65	7CB06075	CAP BOLT M6×75
66	7CB06035	CAP BOLT M6×35
67	1C1945	CAP BOLT M6×18
68	7SW006	SPRING WASHER
69	1C1947	PH BOLT M4X15
70	7PB04008	P H BOLT M4X8
71	7PSW05012	P H BOLT W/ WASHER
72	7PB05065	PH BOLT M5×65
73	1C4160601	RELEASE VALVE
74	7ORS4	O RING
75	7CGW08030	CAP BOLT W/WASHER
76	1C4199800	CUTTER GUARD



	DC-32WH Rebar Cutter		
1	1C1022601	Housing (DC-32WH)	
2	1C4172100	Sub handle	
3	1C4172000	Collar	
4	7PW0008	P. Washer M8	
5	7SW0008	S. Washer M8	
6	7B08020	Cap bolt M8x20	
7	7ORP40	O ring P40	
8	1C3258	Air bag	
9	1C4171401	Air bag nut	
10	1C4171601	Housing cap	
11	7SP06036	Spring pin	
12	1CM2028	Set bolt	
13	7B11T20060	Bolt(11T) M20x60	
14	7N11T0020	Nut(11T) M20-P2.5	
15	7CB08035	Cap bolt M8x35	
16	RB-32WH	Cutter blocks	
17	1C1911B	Cap bolt M8×30	
18	1C4171700	Handle spacer	
19	7CB06025	Cap bolt M6×25	
20	7CB10030	Cap bolt M10×30	
21	1C3093600	Cylinder packing	
22	1C4171900	Return spring	
23	7CU0567KO	Seal packing USH45-55-6	
24	1C1911B	Cap bolt M8×30	
25	1C2056500	Piston	
26	1C4184900	Piston key	
28	7FU1078LO	Seal packing OS1100-85-9	
29	1C2522	Valve end spring	

31 1C2519 Return valve 32 1C4139500 Steel ball 4.5 33 7ORS4 O ring S4 34 1C4160600 Release valve 35 1C1022901 Cylinder 36 1C2610 Ram 37 1C1330 Ram return spring 38 1C13281 Delivery valve 39 1C1331 Delivery valve spring 40 1C13352 Spring guide 41 1C13292 Pump head seal 42 3P1044 Magnet filter 43 1C2609 Ball bearing 609 44 1C2525 Bearing guide 45 1C2534 Needle bearing 46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10×15 52 7GW0006 Teethed washer M6 53 7CB06055 <th></th> <th></th> <th></th>			
32 1C4139500 Steel ball 4.5 33 7ORS4 O ring S4 34 1C4160600 Release valve 35 1C1022901 Cylinder 36 1C2610 Ram 37 1C1330 Ram return spring 38 1C13281 Delivery valve 39 1C1331 Delivery valve spring 40 1C13352 Spring guide 41 1C13292 Pump head seal 42 3P1044 Magnet filter 43 1C2609 Ball bearing 609 44 1C2525 Bearing guide 45 1C2534 Needle bearing 46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10×15 52 7GW0006 Teethed washer M6 53 7CB	30	1C2521	Return valve spring
33 7ORS4 O ring S4 34 1C4160600 Release valve 35 1C1022901 Cylinder 36 1C2610 Ram 37 1C1330 Ram return spring 38 1C13281 Delivery valve 39 1C1331 Delivery valve spring 40 1C13352 Spring guide 41 1C13292 Pump head seal 42 3P1044 Magnet filter 43 1C2609 Ball bearing 609 44 1C2525 Bearing guide 45 1C2534 Needle bearing 46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10×15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6×55 54 1C25	31	1C2519	Return valve
34 1C4160600 Release valve 35 1C1022901 Cylinder 36 1C2610 Ram 37 1C1330 Ram return spring 38 1C13281 Delivery valve 39 1C1331 Delivery valve spring 40 1C13352 Spring guide 41 1C13292 Pump head seal 42 3P1044 Magnet filter 43 1C2609 Ball bearing 609 44 1C2525 Bearing guide 45 1C2534 Needle bearing 46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10×15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6×55 54 1C2542 Oil seal SC20-35-8 55	32	1C4139500	Steel ball 4.5
35 1C1022901 Cylinder 36 1C2610 Ram 37 1C1330 Ram return spring 38 1C13281 Delivery valve 39 1C1331 Delivery valve spring 40 1C13352 Spring guide 41 1C13292 Pump head seal 42 3P1044 Magnet filter 43 1C2609 Ball bearing 609 44 1C2525 Bearing guide 45 1C2534 Needle bearing 46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10×15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6×55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	33	7ORS4	O ring S4
36 1C2610 Ram 37 1C1330 Ram return spring 38 1C13281 Delivery valve 39 1C1331 Delivery valve spring 40 1C13352 Spring guide 41 1C13292 Pump head seal 42 3P1044 Magnet filter 43 1C2609 Ball bearing 609 44 1C2525 Bearing guide 45 1C2534 Needle bearing 46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10x15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6x55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	34	1C4160600	Release valve
37 1C1330 Ram return spring 38 1C13281 Delivery valve 39 1C1331 Delivery valve spring 40 1C13352 Spring guide 41 1C13292 Pump head seal 42 3P1044 Magnet filter 43 1C2609 Ball bearing 609 44 1C2525 Bearing guide 45 1C2534 Needle bearing 46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10x15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6x55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	35	1C1022901	Cylinder
38 1C13281 Delivery valve 39 1C1331 Delivery valve spring 40 1C13352 Spring guide 41 1C13292 Pump head seal 42 3P1044 Magnet filter 43 1C2609 Ball bearing 609 44 1C2525 Bearing guide 45 1C2534 Needle bearing 46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10x15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6x55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	36	1C2610	Ram
39 1C1331 Delivery valve spring 40 1C13352 Spring guide 41 1C13292 Pump head seal 42 3P1044 Magnet filter 43 1C2609 Ball bearing 609 44 1C2525 Bearing guide 45 1C2534 Needle bearing 46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10x15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6x55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	37	1C1330	Ram return spring
40 1C13352 Spring guide 41 1C13292 Pump head seal 42 3P1044 Magnet filter 43 1C2609 Ball bearing 609 44 1C2525 Bearing guide 45 1C2534 Needle bearing 46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10×15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6×55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	38	1C13281	Delivery valve
41 1C13292 Pump head seal 42 3P1044 Magnet filter 43 1C2609 Ball bearing 609 44 1C2525 Bearing guide 45 1C2534 Needle bearing 46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10×15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6×55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	39	1C1331	Delivery valve spring
42 3P1044 Magnet filter 43 1C2609 Ball bearing 609 44 1C2525 Bearing guide 45 1C2534 Needle bearing 46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10×15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6×55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	40	1C13352	Spring guide
43 1C2609 Ball bearing 609 44 1C2525 Bearing guide 45 1C2534 Needle bearing 46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10x15 52 7GW0006 Teethed washer M6 53 7C806055 Cap bolt M6x55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	41	1C13292	Pump head seal
44 1C2525 Bearing guide 45 1C2534 Needle bearing 46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10x15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6x55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	42	3P1044	Magnet filter
45 1C2534 Needle bearing 46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10×15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6×55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	43	1C2609	Ball bearing 609
46 1C2525 Bearing guide 47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10×15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6×55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	44	1C2525	Bearing guide
47 1C2526 Snap ring H35 48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10×15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6×55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	45	1C2534	Needle bearing
48 1C4165800 Pump case packing 49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10×15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6×55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	46	1C2525	Bearing guide
49 1C1021301 Pump case 50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10×15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6×55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	47	1C2526	Snap ring H35
50 1C1305 Seal washer WF10 51 1C1304 Cap bolt M10x15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6x55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	48	1C4165800	Pump case packing
51 1C1304 Cap bolt M10×15 52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6×55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	49	1C1021301	Pump case
52 7GW0006 Teethed washer M6 53 7CB06055 Cap bolt M6×55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	50	1C1305	Seal washer WF10
53 7CB06055 Cap bolt M6x55 54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	51	1C1304	Cap bolt M10×15
54 1C2542 Oil seal SC20-35-8 55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	52	7GW0006	Teethed washer M6
55 1C1941 Ball bearing 6004VV 56 7312435 Fan cover	53	7CB06055	Cap bolt M6×55
56 7312435 Fan cover	54	1C2542	Oil seal SC20-35-8
	55	1C1941	Ball bearing 6004VV
57 7360406E Armature	56	7312435	Fan cover
JI I JOU-LOOF AITHAILUIE	57	7360406F	Armature
58 1C2612J Ball bearing 62002RU	58	1C2612J	Ball bearing 62002RU

59 60 61 62	7340358F 7312449	Stator coil
61		Motor bousing
-	=======================================	Motor housing
62	7984271	Tapping screw D5x75
02	7SW0005	P. Washer M5
63	7CB05045	Cap bolt M5×45
64	7SS05008	Cap bolt M5×8
65	7312434	Bearing bush
66	7980487	Brush holder
67	1C2612A	Carbon brush
68	7940540	Brush cap
69	7981866	Handle A
70	7981867	Handle B
71	7990082	Support
72	1C1961B	Switch
73	7994273	Condenser
74	1C4160400	Handle stay
75	1C1961I	Cord armor
76	7990940	Distance piece
77	7CB06035	Cap bolt M6×35
78	7FCB06025	Flange socket M6×25
79	4V0001V	Cord set
80	7956636	Tapping screw D4×25
81	1C4156001	Tube
82	7PW0006	P. Washer M6
83	7SW0005	S. Washer M5
84	7GW0008	Teethed washer M8
85	7SW0008	S. Washer M8
86	7CB08030	Cap bolt M8x16