

HONEST

POWER TOOLS

Mod. Z1J – KA8 – 13



IMPORTANT

LIRE AVANT USAGE

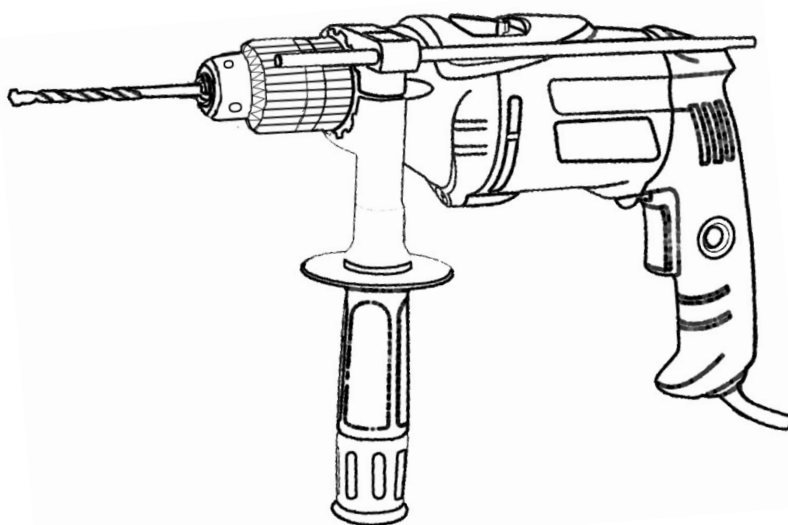
IMPORTANT

READ BEFORE USING



MANUEL D'UTILISATION

USER'S MANUAL



FRANCAIS

Page 2

ENGLISH

Page 12

PRINCIPALES CONSIGNES DE SECURITE POUR APPAREIL ELECTRO-PORTATIF



AVERTISSEMENT

LORS DE L'USAGE DE TOUT APPAREIL ELECTRO-PORTATIF, LES CONSIGNES DE SECURITE ELEMENTAIRES DOIVENT ETRE OBSERVEES POUR EVITER LES RISQUES D'ELECTROCUTION, D'INCENDIE ET/OU DE BLESSURES PHYSIQUES. LIRE ET COMPRENDRE CE MANUEL D'UTILISATEUR IS INDISPENSABLE AVANT DE FAIRE FONCTIONNER VOTRE APPAREIL ELECTRO-PORTATIF.

SECURITE ELECTRIQUE DE BASE

DOUBLE ISOLATION. CET OUTIL EST DOUBLEMENT ISOLE DE LA PRINCIPALE SOURCE GENERATRICE DE COURANT. IL N'EST DONC PAS NECESSAIRE DE LE RELIER A UNE PRISE TERRE.

COMPATIBILITE ENTRE LA TENSION DU SECTEUR ET LA TENSION DE L'APPAREIL. VERIFIER AVANT TOUT BRANCHEMENT DE L'APPAREIL QUE LA TENSION DU SECTEUR EST COMPATIBLE AVEC CELLE DE L'APPAREIL.

EVITEZ L'ELECTROCUTION. NE PAS TRAVAILLER DANS DES CONDITIONS HUMIDES ET MOUILLEES.

SECURITE DES PERSONNES DE BASE

SOYEZ VIGILANT. UTILISER UN APPAREIL ELECTRO-PORTATIF EXIGE ATTENTION, CONCENTRATION ET CONTROLE DE SOI AFIN D'EVITER DES ACCIDENTS. AUSSI, QUAND VOUS UTILISEZ UN APPAREIL, VOUS NE DEVEZ PAS ETRE EN ETAT DE FATIGUE OU SOUS L'EFFET DE L'ALCOOL, DE LA DROGUE OU DES MEDICAMENTS.

PORTEZ DES PROTECTIONS. UTILISER DES PROTECTIONS TELS QUE LUNETTES, MASQUES ANTI-POUSSIERE, CHAUSSURES ANTI-DERAPANTES, CASQUES, ET/OU UN APPAREILLAGE ANTI-BRUIT SELON LES SITUATIONS.

HABILLEZ DE MANIERE APPROPRIEE. NE PAS PORTER DE VETEMENTS AMPLES NI DE BIJOUX QUI PEUVENT ETRE ACCROCHES PAR LES PIECES EN ROTATION DE L'APPAREIL ELECTRO-PORTATIF.

ENLEVEZ LES OUTILS DE REGLAGE AVANT DE FAIRE FONCTIONNER L'APPAREIL ELECTRO-PORTATIF.

AVANT DE BRANCHER VOTRE APPAREIL, ENLEVER TOUT OUTIL DE REGLAGE COMME LA CLE DE SERRAGE AFIN D'EVITER UN ACCIDENT PROVOQUE PAR LA ROTATION DE L'OUTIL DE SERRAGE ACCROCHE A UNE PIECE TOURNANTE DE L'APPAREIL ELECTRO-PORTATIF.

EVITEZ LES DEMARRAGES ACCIDENTELS. ASSUREZ-VOUS QUE L'INTERRUPTEUR SOIT EN POSITION "ARRET" ("OFF") AVANT DE BRANCHER VOTRE APPAREIL.

EVITEZ L'ELECTROCUTION OU DES DOMMAGES ACCIDENTELS. TOUJOURS TENIR VOTRE APPAREIL ELECTROPORTATIF PAR LES SURFACES ISOLEES LORSQUE VOUS FAITES DES PERCAGES OU DES DECOUPAGES CAR VOUS POUVEZ ETRE EN CONTACT AVEC DES FILS ELECTRIQUES OU AVEC DES TUYAUX DE GAS CACHES.

MAINTENEZ VOTRE APPAREIL ET VOS MAINS EN ETAT DE PROPRETE. GARDER VOTRE APPAREIL, NOTAMMENT LES POIGNEES, AINSI QUE VOS MAINS PROPRES ET EXEMPTES DE TOUTE TRACE D'HUILE OU DE GRAISSE AFIN D'AVOIR UNE MEILLEURE PRISE EN MAIN DE VOTRE APPAREIL EN ETAT DE MARCHE.

TENEZ VOTRE APPAREIL A L'ECART DES ENFANTS.



PRECAUTIONS D'USAGE ET ENTRETIEN

DE L'APPAREIL ELECTRO-PORTATIF

N'UTILISEZ PAS UN APPAREIL DANS UN CONTEXTE INAPPROPRIE. CHAQUE APPAREIL EST CONCU POUR UNE PERFORMANCE SPECIFIQUE. UN APPAREIL DESTINE AU BRICOLEUR N'EST PAS ADAPTE A UN USAGE PROFESSIONNEL.

FAITES REPARER VOTRE APPAREIL PAR UN REPARATEUR QUALIFIE. TOUT APPAREIL PRESENTANT DES DEFAUTS AU NIVEAU DES REGLAGES PEUT REPRESENTER UN DANGER ET DOIT ETRE REPARÉ PAR UNE REPARATEUR QUALIFIE.

DEBRANCHEZ VOTRE APPAREIL AVANT TOUTE INTERVENTION. DEBRANCHER VOTRE APPAREIL DE LA PRISE DE COURANT OU DE SON PACK BATTERIE AVANT DE FAIRE DES REGLAGES, DES CHANGEMENTS D'ACCESSOIRES, DE STOCKER

VOTRE APPAREIL, OU D'EFFECTUER DES OPERATIONS DE MAINTENANCE.

RANGÉZ VOTRE APPAREIL DANS UN LIEU SUR. RANGER VOTRE APPAREIL DANS UN LIEU SEC ET PROPRE, ET A L'ECART DES ENFANTS.

MAINTENEZ A TITRE PREVENTIF VOTRE APPAREIL

- VERIFIEZ FREQUEMMENT LES PARTIES ASSEMBLEES ET REVISEZ LES VIS DESERREES.
- GRAISSEZ LES APPAREILS DISPOSANT DES PIECES MONTEES AVEC ENGRENAGE AU MOYEN D'UN LUBRIFIANT A CHAQUE REMPLACEMENT DE BALAI A CHARBON.
- EXAMINEZ REGULIEREMENT L'ETAT DES BALAIS A CHARBON.
- NETTOYEZ LE CORPS DE VOTRE APPAREIL EN UTILISANT UN CHIFFON HUMECTE LEGEREMENT AVEC UNE SOLUTION D'EAU ET DE SAVON.

PRINCIPALES CONSIGNES DE SECURITE POUR PERCEUSE A PERCUSSION

EVITEZ DES ELECTROCUTIONS. TOUJOURS TENIR VOTRE APPAREIL PAR LES SURFACES ISOLEES LORSQUE VOUS EFFECTUEZ UNE OPERATION DE PERCAGE QUI RISQUE METTRE VOTRE APPAREIL AU CONTACT AVEC DES FILS ELECTRIQUES CACHES.

PORTEZ DES EQUIPEMENTS DE PROTECTION. PORTER DES LUNETTES DE PROTECTION LORS DE L'USAGE DE VOTRE PERCEUSE AFIN D'EVITER LA BLESSURE PAR PROJECTION DE DEBRIS.

GARDEZ VOTRE EQUILIBRE ET EVITEZ DES ENTORSES. NE PAS ENROULER LE CORDON D'ALIMENTATION AUTOUR DE VOTRE POIGNEE, BRAS OU DE VOTRE TAILLE POUR NE PAS ETRE PRIS EN DESEQUILIBRE.

POSITIONNEZ VOUS DE MANIERE A NE PAS ETRE PRIS ENTRE L'APPAREIL OU LA POIGNEE ET LES SURFACES DE TRAVAIL. EN CAS DE BLOCAGE DU FORET DANS L'OUVRAGE, LE COUPLE DE REACTION PEUT TORDRE VOTRE MAIN OU VOTRE PIED.

EVITER DE PERDRE LE CONTROLE DE VOTRE APPAREIL. LOGEZ BIEN LES FORETS A L'INTERIEUR DES MACHOIRES DU MANDRIN AVANT DE RESERRER LE MANDRIN.

EN CAS DE GRIPAGE DU FORET DANS UN OUVRAGE, RELACHEZ LA GACHETTE "MARCHE/ARRET" ; INVERSEZ LE SENS DE ROTATION, ET RETIREZ AVEC UNE VITESSE LENTE LE FORET GRIPÉ.

NE METTEZ PAS VOS MAINS TROP PROCHE DES FORETS OU DES EMBOUTS EN ROTATION POUR




EVITER DES BLESSURES.

APRES UN USAGE PROLONGE, LE FORET EST TRES CHAUD. PORTEZ DONC DES GANTS POUR RETIRER LES FORETS AFIN D'EVITER DES BRULURES.

NE FORCEZ PAS VOTRE PERCEUSE A PERCUSSION EN MARCHE. TROP DE PRESSION RALENTIT LA VITESSE DE VOTRE APPAREIL ET PROVOQUE UNE SURCHARGE POUVANT ENTRAENER LE DEGAT DU MOTEUR ELECTRIQUE DE VOTRE APPAREIL.

SYMBOLES

IMPORTANT: CERTAINS SYMBOLES MENTIONNES CI-DESSOUS PEUVENT ETRE IMPRIMES SUR VOTRE APPAREIL. LA COMPREHENSION DE CES SYMBOLES VOUS PERMET D'UTILISER VOTRE APPAREIL DANS DE MEILLEURES CONDITIONS DE SECURITE.

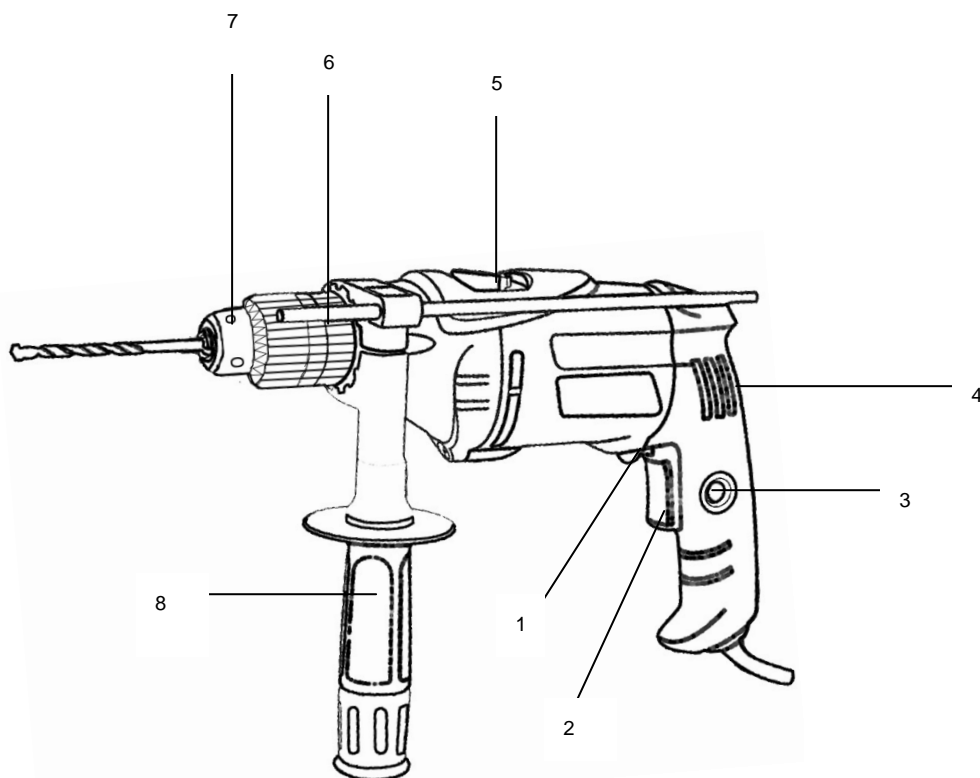
SYMBOLE	NOM	DESIGNATION / EXPLICATION
V	VOLT	TENSION
A	AMPERE	COURANT
Hz	HERTZ	FREQUENCE
W	WATT	PUISSANCE
n0	REGIME A VIDE	VITESSE A VIDE
.../MIN	REVOLUTION PAR MINUTE	NOMBRE DE ROTATION / MINUTE
0	POSITION D'ARRET	VITESSE NULLE
1, 2, 3, ...OU I, II, III,	SELECTEUR DE VITESSE	UN CHIFFRE ELEVE INDIQUE 1 VITESSE PLUS GRANDE
	CONSTRUCTION CLASSE II	DOUBLE ISOLATION
	TERMINALE TERRE	LIAISON TERRE
	PROTECTION ENVIRONNEMENT	LES PRODUITS ELECTRIQUES USAGES NE DOIVENT PAS ETRE JETES AVEC VOS AUTRES ORDURES MENAGERES. RECYCLEZ-LES SI LES INSTALLATIONS APPROPRIEES EXISTENT. DEMANDEZ CONSEIL AUPRES DE VOTRE AUTORITE LOCALE OU DE VOTRE REVE

PRINCIPALES FONCTIONS DE LA PERCEUSE A PERCUSSION

VOTRE PERCEUSE A PERCUSSION DISPOSE TOUT OU PARTIE DES FONCTIONS SUIVANTES :

PRINCIPALES FONCTIONS DE LA PERCEUSE A PERCUSSION

MODELE Z1J – HT – 13A



1. LEVIER DE MARCHE "AVANT/ARRIERE"
2. GACHETTE DE "MARCHE/ARRET" ET DE COMMANDE A VITESSE VARIABLE
3. BOUTON DE BLOCAGE EN MARCHE
4. VENTILATION
5. CADRAN DE SELECTION DE PERCAGE/PERCUSSION
6. BUTEE DE PROFONDEUR
7. MANDRIN
8. POIGNEE AUXILIAIRE

PERCEUSE A PERCUSSION EN OPERATION

LES PHOTOS ET/OU CROQUIS CI-DESSOUS ONT POUR BUT DE VOUS FAMILIARISER AVEC VOTRE PERCEUSE A PERCUSSION. CES PHOTOS ET/OU CROQUIS NE MONTRENT PAS FORCEMENT LE MODELE DE PERCEUSE QUE VOUS AVEZ ACHETE. **AVANT TOUTE MANIPULATION, VOTRE APPAREIL DOIT ETRE DEBRANCHE DU COURANT DE SECTEUR.**

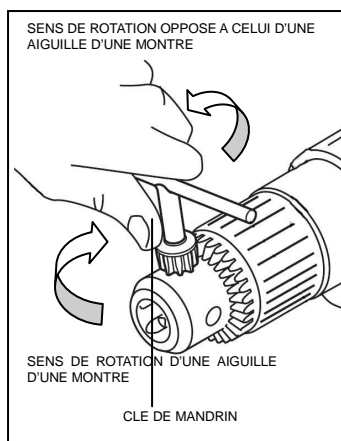


FIG. 1

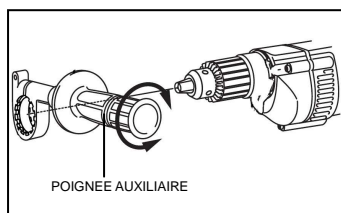


FIG. 2

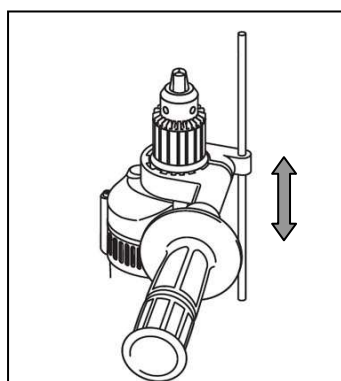


FIG. 3

INSTALLATION

1. INSERER OU ENLEVER UN FORET

PLACER LA CLE DU MANDRIN DANS 1 DES 3 TROUS LOCALISES SUR LE MANDRIN. SERRER LES MACHOIRES DU MANDRIN EN UTILISANT LA CLE. LOGER LE FORET A L'INTERIEUR DU MANDRIN. SERRER LE MANDRIN DANS LE SENS DE ROTATION D'UNE AIGUILLE D'UNE MONTRE (FIG. 1).

POUR RETIRER LE FORET, DESERRER LE MANDRIN DANS LE SENS OPPOSE DE LA ROTATION D'UNE AIGUILLE D'UNE MONTRE (FIG. 1).

2. INSTALLER OR RETIRER LA POIGNEE AUXILIAIRE

LA POIGNEE AUXILIAIRE DONNE PLUS DE CONTROLE ET DE SUPPORT A VOTRE PERCEUSE A PERCUSSION. CETTE POIGNEE EST ORIENTABLE A 360° AUTOUR DE SON AXE DE ROTATION (FIG.2).

3. INSTALLER LA BUTEE DE PROFONDEUR

LA BUTEE DE PROFONDEUR EST PRATIQUE POUR PERCER LES TROUS AVEC UNE PROFONDEUR UNIFORME. DESERRER LA POIGNEE AUXILIAIRE ET INSERER LA BUTEE DE PROFONDEUR DANS LE TROU PREVU. AJUSTER LA PROFONDEUR DE PERCAGE DESIREE ET SERRER LA POIGNEE LATERALE (FIG. 3).

4. REMPLACER LE CHARBON

POUR MAINTENIR L'EFFICACITE MAXIMALE DU MOTEUR DE VOTRE APPAREIL, NOUS RECOMMANDONS QUE VOUS INSPECTEZ L'ETAT DU CHARBON TOUS LES 2 A 6 MOIS. COMME LE CHARBON EST LOCALISE A L'INTERIEUR DE VOTRE APPAREIL, L'ENTRETIEN DOIT ETRE ASSURE PAR UN PERSONNEL QUALIFIE.

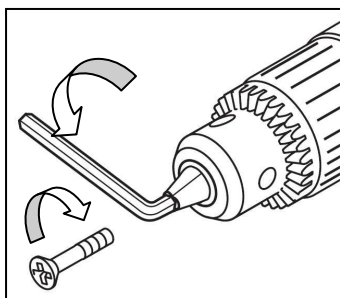


FIG. 4

5. ENLEVER ET INSTALLER LE MANDRIN

POUR ENLEVER LE MANDRIN, DESERRER D'ABORD LES MACHOIRES DU MANDRIN ET DEVISSER LA VIS PLACEE A L'INTERIEUR DU MANDRIN AVEC UN TOURNEVIS (FIG. 4). CHOISIR ENSUITE UNE CLE HEXAGONALE, L'INSERER A L'INTERIEUR DU MANDRIN ET LA FAIRE TOURNER DANS LE SENS OPPOSE DE LA ROTATION D'UNE AIGUILLE D'UNE MONTRE.

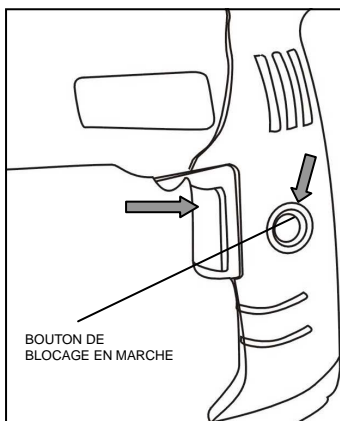


FIG. 5

OPERATION

1. FONCTION OPERATION CONTINUE

APPUYER SUR LA GACHETTE "MARCHÉ/ARRÊT" POUR DEMARRER D'ABORD VOTRE PERCEUSE A PERCUSSION. ENSUITE, APPUYER SUR LE BOUTON DE BLOCAGE EN MARCHÉ POUR ACTIVER L'OPTION OPERATION EN CONTINU. POUR DESACTIVER LA FONCTION OPERATION EN CONTINU, APPUYER SUR LA GACHETTE "MARCHÉ/ARRÊT" POUR ARRETER VOTRE APPAREIL (FIG. 5)

2. FONCTION SELECTION "VITESSE VARIABLE"

VOTRE APPAREIL EST EQUIPE D'UNE FONCTION VITESSE VARIABLE PERMETTANT A VOTRE APPAREIL DE TOURNER DE 0 A 2,800 TOURS PAR MINUTE. POUR OBTENIR UN PERCAGE DE PRECISION, UTILISER UNE VITESSE LENTE POUR MARQUER UN POINT D'ENTREE DE PERCAGE ; ENSUITE, ACCROITRE LA VITESSE POUR PENETRER LA PIECE A TRAVAILLER (FIG. 6)

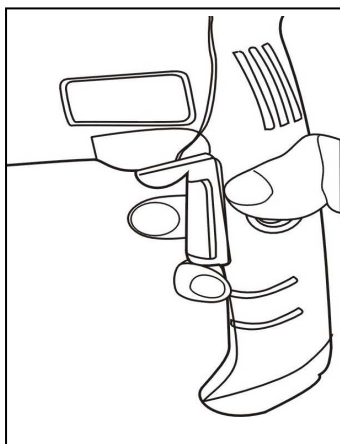


FIG. 6

3. FONCTION MARCHÉ "AVANT/ARRIERE"

VOTRE PERCEUSE A PERCUSSION POSSEDE LA FONCTION MARCHÉ "AVANT/ARRIERE" : POUR UNE ROTATION "AVANT", DEPLACER LE LEVIER MARCHÉ "AVANT/ARRIERE" VERS LA POSITION "R" ; POUR UNE ROTATION "ARRIERE", DEPLACER LE MEME LEVIER VERS LA POSITION "L" (FIG. 7).

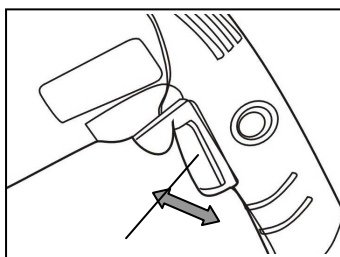




FIG. 7

4. FONCTION "PERCAGE/PERCUSSION"

POUR SELECTIONNER LA FONCTION "PERCAGE", POSITIONNER LE SELECTEUR "PERCAGE/PERCUSSION" SUR LA POSITION DU SYMBOLE  REPRESENTANT LA FONCTION PERCAGE. POUR SELECTIONNER LA FONCTION "PERCUSSION", POSITIONNER LE MEME SELECTEUR SUR LE SYMBOLE  REPRESENTANT LA FONCTION

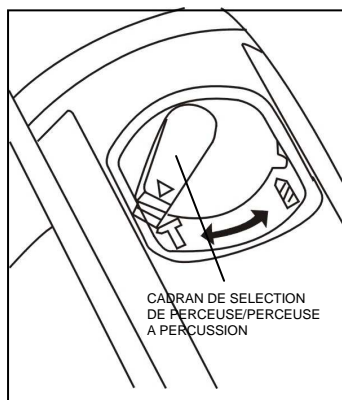


FIG. 8

PERCUSSION. (FIG. 8)

5. ENLEVER ET INSTALLER LE MANDRIN

•PERCER LE BOIS OU LE PLASTIQUE

SERRER OU FIXER LA PIECE A TRAVAILLER AFIN DE LA STABILISER.

LORS DU PERCAGE DE MATERIAU FIN, IL EST RECOMMENDE D'UTILISER UNE CALE EN BOIS POUR EVITER LA FISSURATION DE LA PIECE A TRAVAILLER.

•PERCER LES METAUX

POUR FACILITER LE PERCAGE, FAITES UN TROU AU POINCON DANS LA PIECE A TRAVAILLER. SI LE TROU A PERCER EST LARGE, FAIRE D'ABORD UN PETIT TROU. ENSUITE, ELARGIR LE PETIT TROU A LA TAILLE DESIREE. PARFOIS, VOUS AUREZ BESOIN D'HUILE DE COUPE POUR LUBRIFIER LA POINTE DU FORET AFIN DE FACILITER LE PERCAGE.

•PERCER LA MACONNERIE

UTILISER DES FORETS A POINTE EN CARBURE POUR LES PERCAGES DE MACONNERIE. LA PRESSION QUE VOUS EXERCEZ SUR VOTRE PERCEUSE A PERCUSSION DEPEND DE LA DURETE DU MATERIAU A PERCER.

PRINCIPALES DONNEES TECHNIQUES

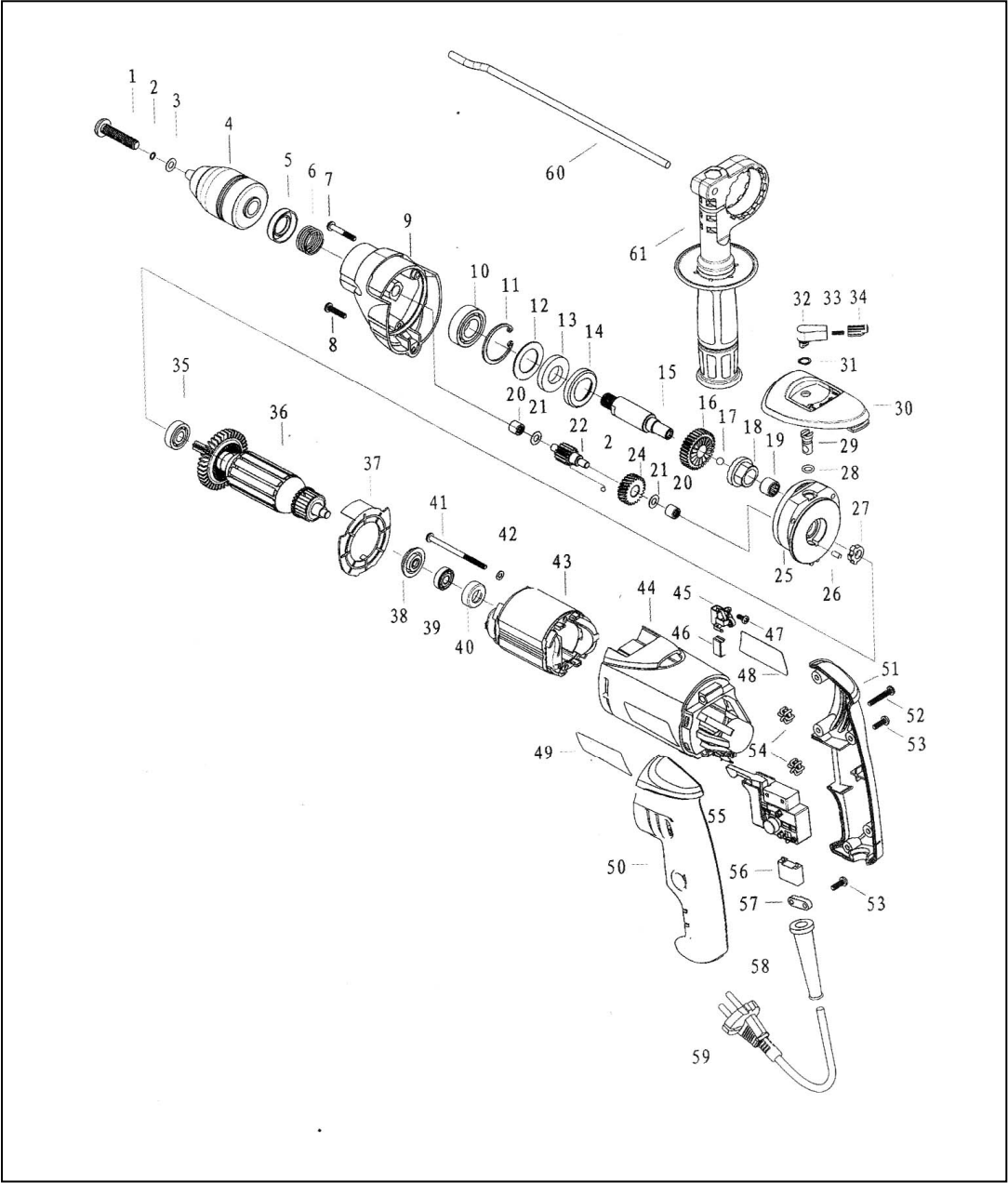
MODELE	Z1J-KA8-13
PUISSANCE NOMINALE	710 W
COURANT NOMINALE	3.3 A
TENSION / FREQUENCE:	230 V ~ 50 Hz
REGIME A VIDE	0 – 2,800 TR/MIN
DIAMETRE MAX. DU MANDRIN	13 MM
PROFONDEUR DE PERCAGE MAX.	
- <i>BETON</i>	15 MM
- <i>BOIS</i>	25 MM
- <i>ACIER</i>	13 MM
BRUIT ET VIBRATION	
- <i>NIVEAU DE PRESSION SONORE</i>	55.7 dB (A)
- <i>NIVEAU DE PUISSANCE SONORE</i>	66.7 dB (A)
- <i>NIVEAU DE VIBRATION</i>	M/S ²
POIDS	2.7 KG

ACCESSOIRES

ACCESSOIRES STANDARD

CLE DE MANDRIN	1 PC
BUTEE DE PROFONDEUR	1 PC
POIGNEE AUXILIAIRE	1 PC
BALAIS OU CHARBON	1 PAIRE
MANUEL D'UTILISATION	1 PC

DIAGRAMME DES PIECES DETACHEES DE LA PERCEUSE A PERCUSSION



LISTE DES PIECES DETACHEES (VOIR LOCATION SPECIFIQUE)

NO. PIECE	DESCRIPTION	QUANTITE	NO. PIECE	DESCRIPTION	QUANTITE
1	SCREW M5 X 22	1	32	DIAL BUTTON	1
2	SPRING WASHER 5	1	33	SPRING	1
3	PLAIN WASHER 5	1	34	DIAL BUTTON POLE	1
4	CHUCK 13 MM	1	35	BEARING 609-2Z	1
5	SPRING COVER	1	36	ROTOR ASSEMBLY	1
6	IMPACT SPRING	2	37	WIND GUARD	1
7	SCREW ST 4.2 X 40	1	38	DUST RING	1
8	SCREW ST 4.2 X 18	1	39	BEARING 607-2Z	1
9	GEAR BOX	1	40	BEARING BUSH	1
10	BEARING 6003-2Z	1	41	TAPPING SCREW ST4.2 X 65	2
11	CIRCLIP 35	1	42	FLAT WASHER 4	1
12	WASHER	1	43	STATOR ASSEMBLY	1
13	WOOLEN RING	1	44	HOUSING	1
14	COVER	1	45	CARBON BRUSH	2
15	SPINDLE	1	46	BRUSH HOLDER	2
16	BIG GEAR	1	47	TAPPING SCREW ST 2.9 X 8	1
17	STEEL BALL Φ 5	1	48	NAME PLATE	1
18	STILL IMPACT BLOCK	1	49	STICKER	1
19	NEEDLE BEARING HK1010	1	50	LEFT REAR COVER	1
20	NEEDLE BEARING HK0609	2	51	RIGHT REAR COVER	1
21	FLAT WASHER 6	2	52	TAPPING SCREW ST 4.2 X 25	2
22	GEAR SHAFT	1	53	TAPPING SCREW ST 4.2 X 14	5
23	STEEL BALL Φ 3	1	54	INDUCTOR	2
24	OBLIQUE GEAR	1	55	SWITCH	1
25	CENTRAL SUPPORT	1	56	CAPACITOR 0.22 UF	1
26	SHOCK ABSORPTION PIN Φ 4 X 8	1	57	CORD CLAMP	1
27	RUBBER RING	1	58	CORD SLEEVE	1
28	O RING Φ 4 X Φ 1.8	1	59	CORD AND PLUG	1
29	DIAL POLE	1	60	DEPTH SOP GUIDE	1
30	UPPER COVER	1	61	SIDE HANDLE	
31	CIRCLIP 8	1	62		

MAIN SAFETY INSTRUCTIONS FOR POWER TOOLS

WHEN USING A POWER TOOL, THE FOLLOWING BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE TAKEN TO REDUCE THE RISK OF ELECTRIC SHOCK, OF FIRE AND / OR PERSONAL INJURY. **READ AND UNDERSTAND THE USER'S MANUAL BEFORE OPERATING THE POWER TOOL IS REQUIRED.**

BASIC ELECTRICAL SAFETY

DOUBLE INSULATION. THIS TOOL IS DOUBLE INSULATED FROM THE MAIN POWER SUPPLY MAKING IT UNNECESSARY FOR THIS POWER TOOL TO BE EARTHED.

OUTLET VOLTAGE AND POWER TOOL VOLTAGE COMPATIBILITY. MAKE SURE THAT THE OUTLET VOLTAGE IS WITHIN THE VOLTAGE RANGE OF THE POWER TOOL.

AVOID ELECTRICAL SHOCK. DO NOT WORK IN WET AND HUMIDE CONDITIONS WITH A POWER TOOL.

BASIC PERSONAL SAFETY

BE WATCHFUL. OPERATING A POWER TOOL REQUIRES ATTENTION, CONCENTRATION AND CONTROL TO AVOID ANY PERSONAL INJURY. THUS, WHILE USING A POWER TOOL YOU MUST NOT BE TIRED AND/OR UNDER THE INFLUENCE OF ALCOHOL, DRUGS OR MEDICATION.

USE SAFETY EQUIPMENT. USE APPROPRIATE SAFETY EQUIPMENT SUCH AS GOGGLES, DUST MASK, NON-SKID SAFETY SHOES, OR HEARING PROTECTION WHENEVER AND WHEREVER APPLICABLE.

DRESS PROPERLY. DO NOT WEAR LOOSE CLOTHING OR JEWELRY SUCH AS NECKLACE THAT CAN BE CAUGHT BY THE POWER TOOL MOVING PARTS.

REMOVE ANY ADJUSTING TOOL SUCH AS KEY OR WRENCH. BEFORE PLUG IN THE POWER TOOL, REMOVE ANY ADJUSTING TOOL TO AVOID ACCIDENT CAUSED BY THE ROTATION OF THE ADJUSTING TOOLS LEFT ATTACHED TO A ROTATION PART.

AVOID ACCIDENTAL START. ENSURE THAT THE SWITCH IS IN THE "OFF" POSITION BEFORE PLUGGING IN THE POWER TOOL.

AVOID ELECTRICAL SHOCK. ALWAYS HOLD POWER TOOL BY INSULATED GRIPPING SURFACES, WHEN PERFORMING AN OPERATION WHERE THE DRILLING OR CUTTING TOOLS MAY CONTACT HIDDEN ELECTRICAL WIRES.

MAINTAIN THE POWER TOOL AND YOUR HAND CLEAN. KEEP POWER TOOL, NOTABLY THE HANDLE(S) AND YOUR HANDS CLEAN AND FREE FROM OIL AND GREASE TO ENSURE BETTER CONTROL OF THE POWER TOOL IN OPERATION.

KEEP CHILDREN AND UNTRAINED PEOPLE AWAY.

POWER TOOL USE AND CARE

DO NOT FORCE THE POWER TOOL. DO NOT USE THE POWER TOOL IN AN INAPPROPRIATE CONTEXT OR IN A CONTEXT THE POWER TOOL IS NOT DESIGNED FOR. EACH POWER TOOL IS DESIGNED FOR SPECIFIC PERFORMANCE. A POWER TOOL DESIGNED TO BE SERVED AS A DO-IT-YOURSELF TOOL SHOULD NOT BE USED BY PROFESSIONALS FOR EXTENDED USES

HAVE THE POWER TOOL REPAIRED BY QUALIFIED PEOPLE. ANY POWER TOOL THAT CANNOT BE CONTROLLED WITH THE SWITCH IS DANGEROUS AND MUST BE REPAIRED BY A QUALIFIED PERSON.



DISCONNECT THE POWER TOOL FROM THE POWER SOURCE BEFORE ANY INTERVENTION. DISCONNECT THE PLUG FROM THE POWER SOURCE AND/OR THE BATTERY PACK BEFORE MAKING ANY ADJUSTMENT, CHANGING ACCESSORIES, STORING THE POWER TOOL, AND MAINTAINING THE POWER TOOL.

STORE POWER TOOLS IN A SAFE PLACE. STORE IDLE POWER TOOLS IN A DRY AND A CLEAN PLACE, OUT OF THE REACH OF CHILDREN.

MAINTAIN PREVENTIVELY THE POWER TOOL.

- INSPECT REGULARLY THE MOUNTING PARTS;

CHECK IF ALL THE LOOSE SCREWS ARE PROPERLY TIGHTENED.

- REGREASE THE POWER TOOL WITH GEARS WITH SPECIAL LUBRICANT AT EVERY BRUSH CHANGE.
- AFTER REGULAR EXAMINATION OF THE STATE OF THE BRUSHES AND COMMUTATOR, SEE WHETHER THESE PARTS NEED TO BE CHANGED.
- CLEAN YOUR POWER TOOLS BODY USING A CLEANING CLOTH LIGHTLY WET WITH A MIXED SOLUTION OF WATER AND SOAP.

MAIN SAFETY INSTRUCTIONS FOR IMPACT DRILL

WEAR SAFETY PROTECTION. ALWAYS WEAR SAFETY GOOGLES OR EYE PROTECTION WHEN USING THE IMPACT DRILL TO PREVENT ANY PROJECTION THAT MAY DAMAGE YOUR EYES.

DO NOT WRAP THE CORD AROUND YOUR WRIST, ARM OR WAIST TO AVOID BEING DESTABILIZED.

DO NOT GRASP THE TOOL OR PLACE YOUR HANDS TOO CLOSE TO THE SPINNING CHUCK OR DRILL BIT. YOUR HAND MAY RUN THE RISK OF BEING INJURED.

POSITION YOURSELF TO AVOID BEING CAUGHT BETWEEN THE TOOL OR SIDE HANDLE AND WALLS. SHOULD THE BIT BECOME BOUND OR JAMMED IN THE WORK, THE REACTION TORQUE OF THE TOOL COULD CRUSH YOUR HAND OR LEG.

WHEN INSTALLING AN ACCESSORY, INSERT THE SHANK OF THE ACCESSORY DEEP ENOUGH IN THE




JAWS OF THE CHUCK TO PREVENT THE RISK OF LOSING THE CONTROL OF YOUR IMPACT DRILL.

AS DRILL BITS MAY BE HOT AFTER PROLONGED USE, WHEN REMOVING THE BIT FROM THE TOOL, AVOID ANY CONTACT WITH YOUR SKIN, AND USE PROPER PROTECTIVE GLOVES WHEN GRASPING THE BIT OR OTHER ACCESSORIES.

NEVER USE EXCESSIVE FORCE. TOO MUCH PRESSURE CAN REDUCE THE SPEED OF YOUR DRILL AND REDUCE ITS EFFICIENCY. THIS CAN RESULT IN AN OVERLOAD WHICH CAN CAUSE DAMAGE TO THE ELECTRIC MOTOR OF YOUR IMPACT DRILL.

SYMBOLS

IMPORTANT: CERTAIN SYMBOLS MENTIONED BELOW ARE PRINTED ON YOUR POWER TOOL. THE UNDERSTANDING OF THESE SYMBOLS WILL ALLOW YOU TO OPERATE YOUR POWER TOOL IN SAFER CONDITION.

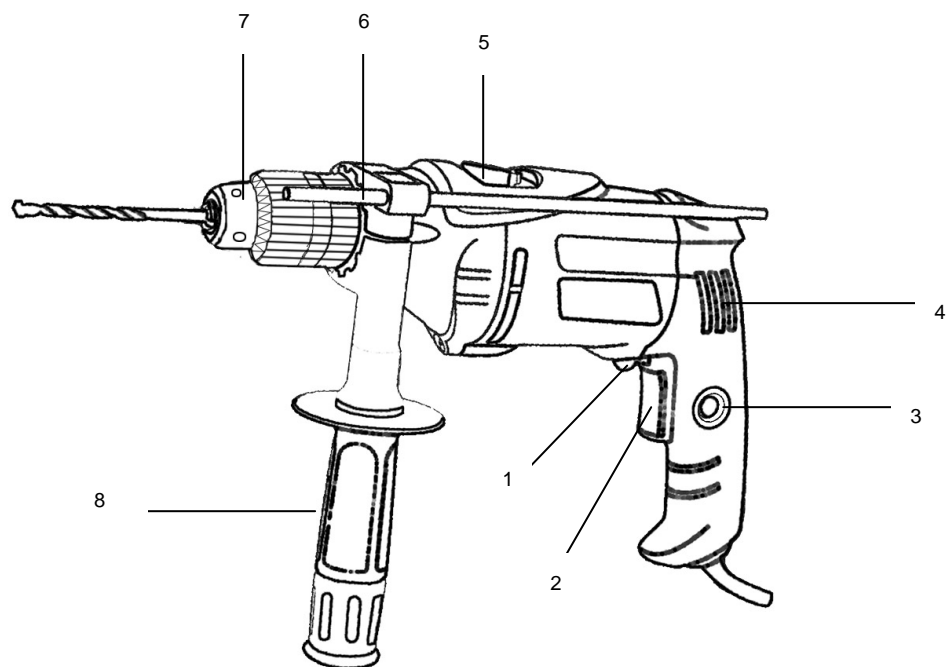
SYMBOL	NAME	DESIGNATION / EXPLANATION
V	VOLT	VOLTAGE
A	AMPERE	CURRENT
Hz	HERTZ	FREQUENCY
W	WATT	POWER
n0	NO LOAD SPEED	TOOL'S SPEED BEFORE CONTACT WITH THE WORKPIECE
.../MIN	REVOLUTION PER MINUTE	NUMBER OF ROTATIONS / MINUTE
0	"OFF"	"OFF" POSITION
1, 2, 3, ...OU I, II, III,	SPEED SELECTOR	A HIGH NUMBER INDICATES A HIGHER SPEED
	CONSTRUCTION CLASSE II	DOUBLE INSULATION
	EARTH TERMINAL	EARTH TERMINAL LIAISON
	ENVIRONMENTAL PROTECTION FOR WASTE ELECTRICAL PRODUCTS	WASTE ELECTRICAL PRODUCTS SHOULD NOT BE DISPOSED OF WITH HOUSEHOLD WASTE. PLEASE RECYCLE WHERE FACILITIES EXIST. CHECK WITH YOUR LOCAL AUTHORITY OR RETAILER FOR RECYCLING ADVICE

IMPACT DRILL MAIN FUNCTIONS

YOUR IMPACT DRILL POSSESSES SOME OR ALL OF THE FOLLOWING FUNCTIONS:

IMPACT DRILL MAIN FUNCTIONS

MODEL Z1J – HT – 13A



1. "FORWARD/REVERSE" LEVER
2. "ON/OFF" & "VARIABLE SPEED" SWITCH TRIGGER
3. "LOCK-ON" BUTTON
4. VENTILATION OPENINGS
5. DRILL/HAMMER SELECTOR DIAL
6. DEPTH GUIDE
7. CHUCK
8. SIDE HANDLE

IMPACT DRILL IN OPERATION

THE PICTURES BELOW INTEND TO MAKE YOU FAMILAR WITH DIFFERENT FUNCTIONS OF YOUR IMPACT DRILL. THESE PICTURES MAY NOT SHOW THE ACTUAL IMPACT DRILL MODEL THAT YOU HAVE PURCHASED. **BEFORE ANY INTERVENTION, YOUR IMPACT DRILL MUST BE UNPLUGGED FROM THE POWER SOURCE.**

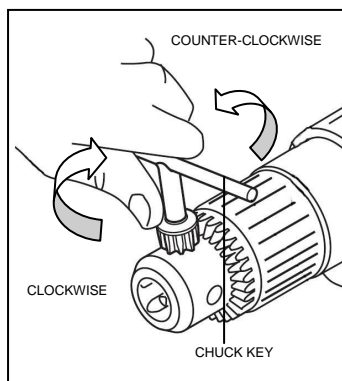


FIG. 1

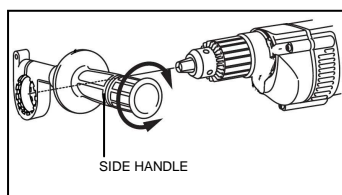


FIG. 2

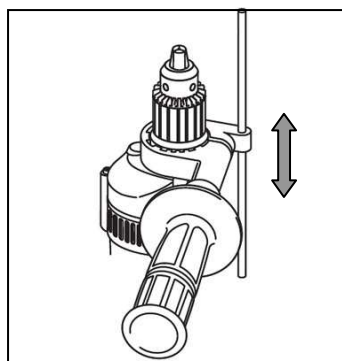


FIG. 3

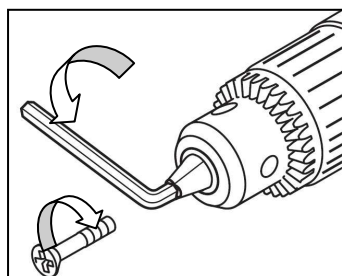


FIG. 4

ASSEMBLY

1. INSERTING OR REMOVING THE DRILL

PLACE THE CHUCK KEY IN 1 OF THE 3 HOLES LOCATED ON THE CHUCK. LOOSEN THE CHUCK JAWS BY USING THE CHUCK KEY. INSERT THE DRILL INSIDE THE CHUCK. TIGHTEN THE CHUCK IN CLOCK-WISE DIRECTION (FIG. 1).

TO REMOVE THE DRILL, LOOSEN THE CHUCK IN COUNTER-CLOCKWISE DIRECTION.

2. INSTALLING OR REMOVING THE SIDE HANDLE

THE SIDE HANDLE PROVIDES ADDITIONAL CONTROL AND SUPPORT FOR THE IMPACT DRILL. THIS HANDLE IS ADJUSTABLE 360° AROUND ITS ROTATION AXIS (FIG. 2).

3. INSTALLING THE DEPTH GUIDE

THE DEPTH GUIDE IS CONVENIENT FOR DRILLING HOLES OF UNIFORM DEPTH. LOOSEN THE SIDE HANDLE AND INSERT THE DEPTH GUIDE INTO THE HOLE IN THE SIDE HANDLE. ADJUST THE DEPTH GUIDE TO THE DESIRED DEPTH AND TIGHTEN THE SIDE HANDLE (FIG. 3)

4. REPLACING THE CARBON BRUSHES

TO MAINTAIN THE PEAK EFFICIENCY OF YOUR POWER TOOL MOTOR, WE RECOMMEND THAT THE CARBON BRUSHES BE EXAMINED EVERY 2-6 MONTHS. AS THE CARBON BRUSH IS AN INTERNAL PART YOUR POWER TOOL, THE SERVICE MUST BE PERFORMED BY QUALIFIED PERSONNEL

5. REMOVING OR INSTALLING THE CHUCK

TO REMOVE THE CHUCK, LOOSEN THE CHUCK JAWS AND REMOVE THE THREAD SCREW LOCATED INSIDE THE CHUCK WITH A



SCREWDRIVER CLOCKWISE FIRST; THEN, CHOOSE A PROPER HEX KEY WRENCH, INSERT IT INSIDE THE CHUCK AND TURN IT COUNTER-CLOCKWISE (FIG. 4).

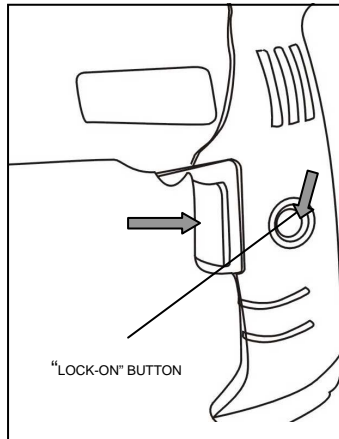


FIG. 5

OPERATION

1. CONTINUOUS OPERATION FUNCTION

DEPRESS THE "ON/OFF" TRIGGER SWITCH FIRST TO START YOUR IMPACT DRILL. THEN, PRESS ON THE "LOCK-ON" BUTTON TO ACTIVATE THE CONTINUOUS OPERATION OPTION. TO DESACTIVATE THE "LOCK-ON" FUNCTION, PRESS ON THE "ON/OFF" TRIGGER SWITCH TO STOP YOUR IMPACT DRILL.

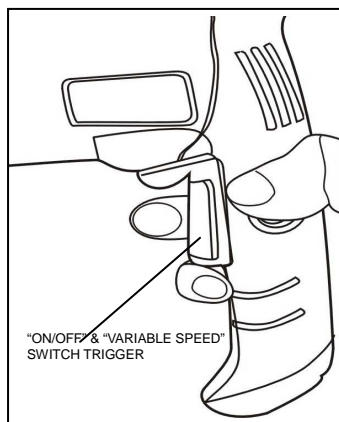


FIG. 6

2. "VARIABLE SPEED" SELECTION FUNCTION

YOUR IMPACT DRILL IS EQUIPPED WITH A VARIABLE SPEED FUNCTION ALLOWING YOUR MACHINE TO RUN FROM 0 TO 2,800 RPM. TO GET A PRECISE DRILLING, USE A SLOW SPEED TO MARK AN ENTRY DRILLING POINT; THEN INCREASE THE SPEED TO PENETRATE THE WORK PIECE (FIG. 6).

3. "FORWARD/REVERSE" FUNCTION

YOUR IMPACT DRILL POSSESSES THE "forward/reverse" FUNCTION: FOR "FORWARD" ROTATION, MOVE THE "FORWARD/REVERSE" LEVER TO THE "R" POSITION; FOR "REVERSE" ROTATION, MOVE THE SAME LEVER POSITION TO THE "L" POSITION (FIG. 7). IF THE "FORWARD/REVERSE" LEVER IS ON THE MIDDLE POSITION, YOUR IMPACT DRILL WILL NOT OPERATE.

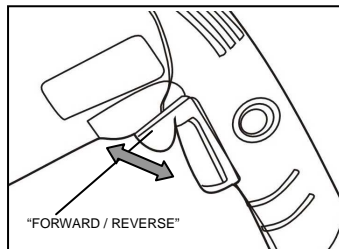




FIG. 7

CAUTION: TO PREVENT THE DAMAGE TO YOUR IMPACT DRILL, CHANGE THE ROTATION DIRECTION ONLY AFTER YOUR TOOL COMES TO A COMPLETE STOP.

4. "DRILL OR HAMMER" FUNCTION

TO SELECT THE "DRILL" FUNCTION, POSITION THE "DRILL/HAMMER" SELECTOR DIAL TO THE SYMBOL  REPRESENTING THE DRILLING FUNCTION. TO SELECT THE "HAMMER" FUNCTION, POSITION THE SAME LEVER TO THE SYMBOL  REPRESENTING THE HAMMER FUNCTION.

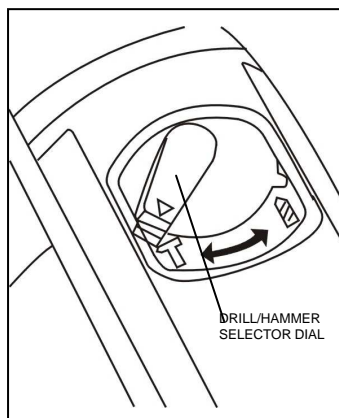


FIG. 8

5. RECOMMENDATION FOR IMPACT DRILL OPERATIONS



- **DRILLING WOOD OR PLASTIC**

CLAMP OR ANCHORE THE WORKPIECE TO STABILISE IT.
WHEN DRILLING THIN MATERIAL, IT IS RECOMMENDED TO USE A WOOD MADE "BACK-UP" BLOCK TO PREVENT WORKPIECE FROM SPLINTERING.

- **DRILLING METALS**

TO EASE THE DRILLING, MAKE A CENTRE PUNCH IN THE WORKPIECE.
IF THE HOLE TO BE DRILLED IS LARGE, MAKE A SMALLER HOLE FIRST, THEN ENLARGE IT TO THE REQUIRED SIZE. SOMETIMES, YOU MAY NEED CUTTING OIL TO LUBRICATE THE TIP OF THE BIT TO FACILITATE THE DRILLING.

- **DRILLING MASONARY**

USE CARBIDE TIP BITS FOR ALL MASONARY DRILLING. THE PRESSURE APPLIED ON YOUR IMPACT DRILL DEPENDS ON THE HARDNESS OF THE MATERIAL BEING DRILLED.

MAIN TECHNICAL DATA

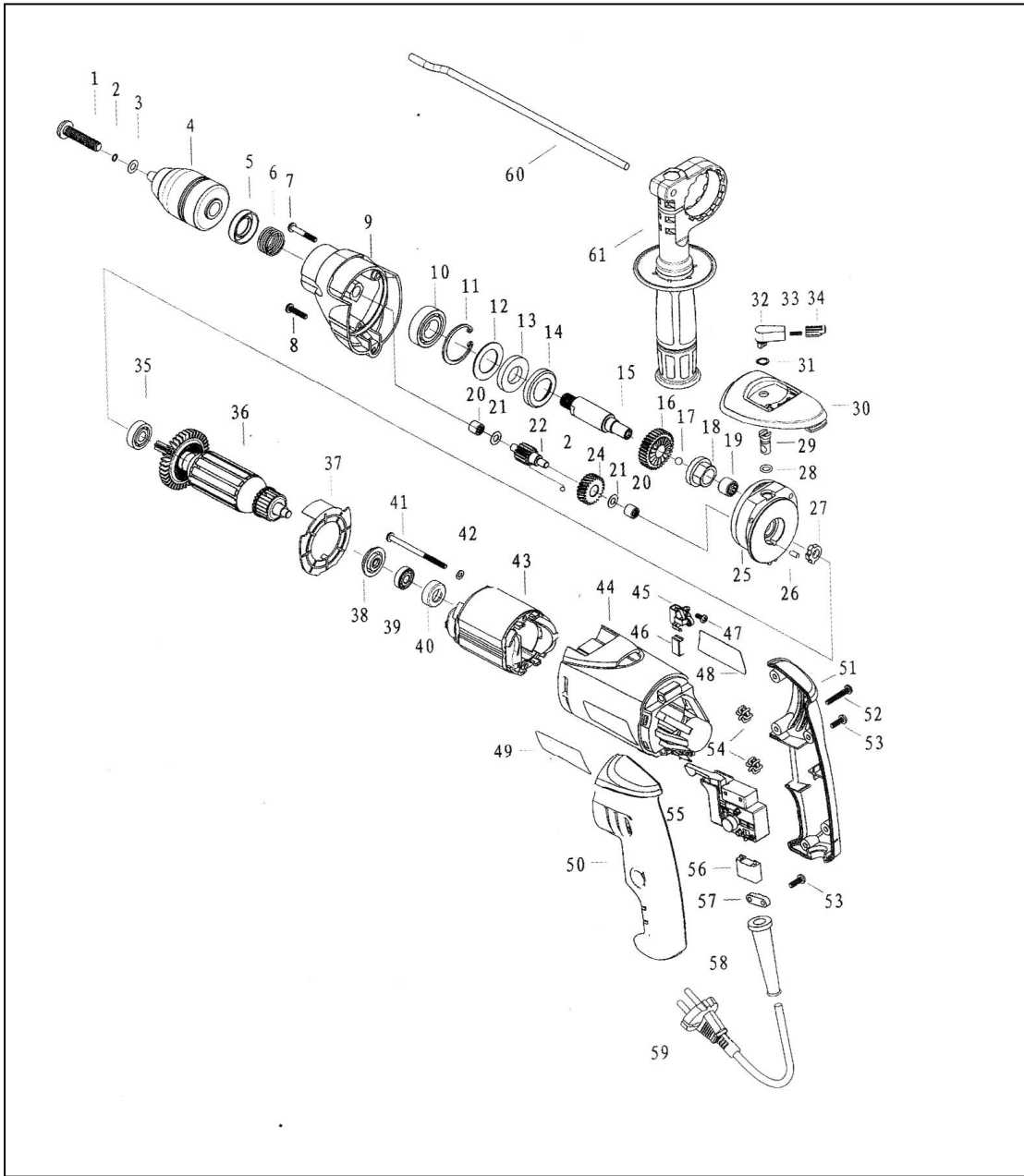
MODEL	Z1J-KA8-13
RATED INPUT POWER	710 W
RATED INPUT CURRENT	3.3 A
VOLTAGE / FREQUENCY	230 V ~ 50 Hz
NO-LOAD SPEED	0 – 2,800 RPM
MAX. CHUCK DIAMETER	13 MM
MAX. DRILLING CAPACITY	
- CONCRETE	15 MM
- WOOD	25 MM
- STEEL	13 MM
NOISE AND VIBRATION	
- SOUND PRESSURE LEVEL	55.7 dB (A)
- SOUND POWER LEVEL	66.7 dB (A)
- VIBRATION LEVEL	M/S ²
WEIGHT	2.7 KG

ACCESSORIES

STANDARD ACCESSORIES

CHUCK KEY	1 PC
DEPTH STOP GUIDE	1 PC
SIDE HANDLE	1 PC
CARBON BRUSHES	1 PAIR
INSTRUCTION MANUAL	1 PC

IMPACT DRILL SPARE PARTS DIAGRAM





SPARE PARTS LIST (SEE SPECIFIC LOCATION)

PART NO.	DESCRIPTION	QUANTITY	PART NO.	DESCRIPTION	QUANTITY
1	SCREW M5 X 22	1	32	DIAL BUTTON	1
2	SPRING WASHER 5	1	33	SPRING	1
3	PLAIN WASHER 5	1	34	DIAL BUTTON POLE	1
4	CHUCK 13 MM	1	35	BEARING 609-2Z	1
5	SPRING COVER	1	36	ROTOR	1
6	IMPACT SPRING	2	37	WIND GUARD	1
7	SCREW ST 4.2 X 40	1	38	DUST RING	1
8	SCREW ST 4.2 X 18	1	39	BEARING 607-2Z	1
9	GEAR BOX	1	40	BEARING BUSHES	1
10	BEARING 6003-2Z	1	41	TAPPING SCREW ST4.2 X 65	2
11	CIRCLIP 35	1	42	FLAT WASHER 4	1
12	WASHER	1	43	STATOR	1
13	WOOLEN RING	1	44	HOUSING	1
14	COVER	1	45	CARBON BRUSHES	2
15	SPINDLE	1	46	BRUSH HOLDER	2
16	BIG GEAR	1	47	TAPPING SCREW ST 2.9 X 8	2
17	STEEL BALL $\phi 5$	1	48	NAME PLATE	1
18	STILL IMPACT BLOCK	1	49	STICKER	1
19	NEEDLE BEARING HK1010	1	50	LEFT REAR COVER	1
20	NEEDLE BEARING HK0609	2	51	RIGHT REAR COVER	1
21	FLAT WASHER 6	2	52	TAPPING SCREW ST 4.2 X 25	2
22	GEAR SHAFT	1	53	TAPPING SCREW ST 4.2 X 14	5
23	STEEL BALL $\phi 3$	1	54	INDUCTOR	2
24	OBLIQUE GEAR	1	55	SWITCH	1
25	CENTRAL SUPPORT	1	56	CAPACITOR 0.22 μ F	1
26	SHOCK ABSORPTION PIN $\phi 4 \times 8$	1	57	CORD CLAMP	1
27	RUBBER RING	1	58	CORD SLEEVE	1
28	O RING $\phi 4 \times \phi 1.8$	1	59	CORD AND PLUG	1
29	DIAL POLE	1	60	DEPTH GAUGE	1
30	UPPER COVER	1	61	SIDE HANDLE	1
31	CIRCLIP 8	1	62		

INSTRUCTIUNI DE SIGURANTA PENTRU UNELTELE ELECTRICE



AVERTISMENT

CAND FOLOSITI O UNEALTA ELECTRICA, AR TREBUI LUATE IN CONSIDERARE PRECAUTIILE CE URMEAZA, PENTRU REDUCEREA RISCULUI DE ELECTROCUTARE, INCENDIU SI/ SAU VATAMARE CORPORALA. **CITITI SI INTELEGETI MANUALUL DE UTILIZARE INAINTE DE UTILIZAREA SCULELOR ELECTRICE.**

MASURI DE SIGURANTA ELECTRICA DE

SAU BIJUTERII ASEMENEA COLIERELOR CE POT FI PRINSE DE PARTILE UNELTELOR.

BAZA

DUBLA IZOLARE. ACEASTA UNEALTA ESTE DUBLU IZOLATA DE LA BLOCUL DE ALIMENTARE DE LA RETEA FIIND ASTFEL INUTILA IMPAMANTAREA EI.

DISTANTATI ORICE UNEALTA DE REGLARE ASEMENEA CHEILOR FIXE. INAINTE DE A PORNI UNEALTA, DISTANTATI ORICE CHEI DE REGLARE PENTRU A EVITA ACCIDENTELE CAUZATE DE ARUNCAREA CELOR UITATE PE PARTILE ROTATIVE ALE SCULEI.

COMPATIBILITATEA VOLTAJULUI LA PRIZA SI VOLTAJULUI UNELTEI ELECTRICE. ASIGURATI-VA CA VOLTAJUL DE LA PRIZA SA FIE CUPRINS DE REZISTENTA ADITIONALA A SCULEI ELECTRICE.

EVITATI PORNIRILE ACCIDENTALE. ASIGURATI-VA CA BUTONUL SA FIE PE POZITIA DE "OPRIT" INAINTE DE A CONECTA UNEALTA LA ENERGIA ELECTRICA.

EVITATI ELECTROSOCURILE. NU LUCRATI IN CONDITII DE UMEZEALA.

EVITATI ELECTROSOCURILE. PRINDETI UNEALTA DE MANERUL CU PROTECTIE SPECIALA CAND ESTE VORBA SA FOLOSITI SCULE DE GAURIT SAU TAIAT CE AR PUTEA VENI IN CONTACT CU FIRE ELECTRICE ASCUNSE.

MASURI DE SIGURANTA PERSONALA

GENERALA

FITI VIGILENTI. OPERAREA UNEI SCULE ELECTRICE NECESITA ATENTIE, CONCENTRARE SI CONTROL PENTRU EVITAREA LEZIUNILOR CORPORALE. ASADAR CAND UTILIZATI O ASTFEL DE UNEALTA NU TREBUIE SA FITI OBOSIT SI/SAU SUB INFLUENTA BAUTURILOR ALCOOLICE, A DROGURILOR SAU MEDICAMENTELOR.

PASTRATI UNEALTA SI MAINILE DUNEAVOASTRA CURATE. PASTRATI UNEALTA, IN SPECIAL MANERUL SI MAINILE DUMNEAVOASTRA CURATE, FARA URME DE ULEI SAU GRASIMI PENTRU O BUNA CONTROLARE A OPERATIEI.

TINETI COPIII SAU PERSOANELE NEINSTRUIE LA DISTANTA.

FOLOSITI ECHIPAMENT DE PROTECTIE. FOLOSITI ECHIPAMENTUL DE PROTECTIE ADECVAT ASEMENEA OCHELARILOR DE PROTECTIE, MASTILOR DE PRAF, PANTOFILOR PLINI, DE SIGURANTA SAU A DOAPELOR DE PROTECTIE PENTRU URECHI, DE CATE ORI ESTE NECESAR.

FOLOSIREA SI INGRIJIREA UNELTELOR

NU SUPRASOLICITATI SCULELE. NU FOLOSITI SCULELE IN OPERATII PENTRU CARE NU SUNT DESTINATE. FIECARE SCULA ESTE DESTINATA UNOR OPERATII SPECIFICE. O SCULA ELECTRICA DESTINATA UZULUI CASNIC NU TREBUIE FOLOSITA IN UZUL PROFESIONAL DE LUNGA DURATA.

IMBRACATI-VA ADECVAT. NU PURTATI HAINE LARGI

UNELTELE TREBUIE REPARATE DOAR DE PERSONAL CALIFICAT. ORICE UNEALTA CE NU POATE FI CONTROLATA DIN COMUTATOR, ESTE PERICULOASA SI TREBUIE REPARATA DE PERSONAL CALIFICAT.

DECONNECTATI UNEALTA DE LA SURSA DE ELECTRICITATE INAINTE DE ORICE INTERVENTIE. DECONNECTATI DE LA SURSA DE ELECTRICITATE SI/ SAU DE LA ACUMULATORI INAINTE DE ORICE AJUSTARE, SCHIMBARE DE PIESE, DEPOZITARE SAU INTRETINERE.

PASTRATI UNELTELE IN LOCURI SIGURE. PASTRATI

UNELTELE IN LOCURI USCATE SI CURATE, FARA A FI LA INDEMANA COPIILOR.

INTRETINEREA PREVENTIVA A UNELTELOR.

- VERIFICATI PARTILE DETASABILE; VERIFICATI DACA TOATE SURUBURILE SUNT BINE STRANSE.
- GRESATI CU PASTE SPECIALE FIECARE PIESEA PE CARE O SCHIMBATI.
- DUPA EXAMINAREA REGULATA A STARII ACCESORIILOR, VEDETI CE PIESE TREBUIE SCHIMBATE.
- CURATATI UNELTELE CU O CARPA IMBIBATA IN APA CU DETERGENT.

INSTRUCTIUNI DE SIGURANTA PENTRU BORMASINA

PURTATI ECHIPAMENT DE PROTECTIE. PURTATI INTOTDEAUNA OCHELARI SAU MASTI DE PROTECTIE A OCHILOR PENTRU A VA PROTEJA PRIVIREA DE POTENTIALELE PERICOLE.

NU INFASURATI FIRUL IN JURUL MAINII SAU MIJLOCULUI RISCAND SA FITI DEZECHILIBRATI IN TIMPUL LUCRULUI.

NU PRINDETI TOATA BORMASINA, SAU NU TINETI MAINILE PEA APROAPE DE BURGHIIU SAU CAPAT DE SURUBELNITA.

POZITIONATI-VA IN ASA FEL INCAT SA NU VA AFLATI INTRE BORMASINA, SAU MANER, SI ZID. DACA IN TIMPUL LUCRULUI CAPATUL DE SURUBELNITA RAMANE BLOCAT MOMENTUL DE TORSIUNE REACTIV

AL MASINII VA POATE ZDROBI MAINILE SAU PICIOARELE.

CAND ATASATI UN ACCESORIU, INTRODUCETI TIJA ACESTUIA MULT IN MANDRINA PENTRU A EVITA PIERDEREA CONTROLULUI ASUPRA BORMASINII.

DUPA O FOLOSIRE INDELUNGATA FARFUL BURGHIIULUI VA FI FIERBINTE, ASA CA ATUNCI CAND VETI DORI SA IL SCHIMBATI, EVITATI ORICE CONTACT CU PIELEA SI PURTATI MANUSI DE PROTECTIE.

NU FOLOSITI FORTA EXCESIVA. O PRESIUNE PEA MARE POATE REDUCE VITEZA BORMASINII REDUCAND ASTFEL EFICIENTA. ACEST LUCRU POATE DUCE LA SUPRASOLICITAREA MOTORULUI IN SINE

SIMBOLURI

IMPORTANT: ASIGURATI-VA CA SIMBOLURILE DESCRISE MAI JOS SE AFLA INSCRIPTIONATE SI PE BORMASINA DUMNEAVOASTRA . INTELEGEREA LOR VA VA AJUTA SA STITI CUM SA FOLOSITI BORMASINA IN CONDITII SIGURE.

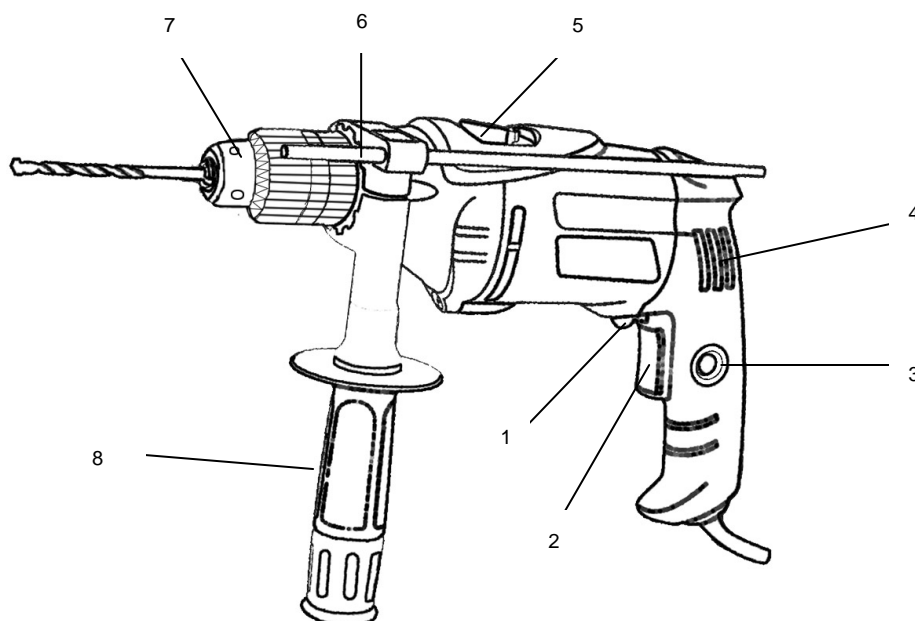
SIMBOL	DENUMIRE	EXPLICATII
V	VOLT	VOLTAJ
A	AMPER	CURENT
Hz	HERTZ	FRECVENTA
W	WATT	PUTERE
n0	TURATIE LA MERS IN GOL	VITEZA MOTORULUI INAINTE DE CONTACTUL CU SUPRAFATA DE LUCRU
.../MIN	ROTATII PE MINUT	NUMAR DE ROTATII/MINUT
0	"OFF"	POZITIA "INCHIS"
1, 2, 3, ...OU I, II, III,	SELECTOR DE VITEZA	UN NUMAR MARE INDICA O VITEZA MARE
	CLASA DE FABRICATIE II	DUBLA IZOLATIE
	IMPAMANTARE	LEGATURA DE IMPAMANTARE
	COLECTAREA DESEURILOR	ACEASTA SIGLA INDICA FAPTUL CA APARATELE ELECTRICE SI ELECTRONICE NU VOR FI ARUNCATE IMPREUNA CU GUNOIUL MENAJER, CI VOR FI PREDATE IN VEDEREA RECICLARII LA CENTRELE DE COLECTARE SPECIAL AMENAJATE, CONFORM HG448/2005 SI DIRECTIVA CONSILIULUI EUROPEAN 2002/96/EC

PRINCIPALELE FUNCTII ALE BORMASINII

BORMASINA DUMNEAVOASTRA POATE AVEA TOATE FUNCTIILE DE MAI JOS, SAU DOAR O PARTE DINTRE ACESTEA:, IN FUNCIE DE MODEL

PARTILE COMPONENTELE ALE BORMASINII

MODEL Z1J – HT – 13A



1	MANETA PENTRU SCHIMBAREA SENSULUI DE ROTATIE	5	SCHIMBATOR DE FUNCTII
2	COMUTATOR "PORNIT/OPRIT" CU VARIATOR DE VITEZA	6	TIJA DE LIMITARE A ADANCIMII DE GAURIRE
3	BUTON DE BLOCARE A COMUTATORULUI	7	MANDRINA
4	FANTE DE VENTILATIE	8	MANER LATERAL

OPERAREA CU BORMASINA

DESENELE SI/SAU SCHEMELE DE MAI JOS VA VOR AJUTA SA VA FAMILIARIZATI CU DIFERITELE FUNCTII PE CARE LE POATE INDEPLINI BORMASINA. **INAINTE DE A EFECTUA ORICE INTERVENTIE, BORMASINA TREBUIE SA FIE DECUPLATA DE LA SURSA DE ALIMENTARE CU ENERGIE ELECTRICA**

ASAMBLAREA

1. INTRODUCEREA SI SCOATEREA BURGHIULUI

AZAZATI CHEIA DE MANDRINA 1 IN GAURILE 3 SITUATE PE MANDRINA. DESFACETI DISPOZITIVUL DE STRANGERE A MANDRINEI PRIN FOLOSIREA CHEII DE MANDRINA. INTRODUCETI BURGHIUL IN INTERIORUL MANDRINEI. STRANGETI MANDRINA IN SENSUL ACELOR DE CEASORNIC (FIGURA 1).

PENTRU SCOATEREA BURGHIULUI DESFACETI MANDRINA PRIN ROTIREA EI IN SENS INVERS ACELOR DE CEASORNIC

2. MONTAREA SI DEMONTAREA MANERULUI AUXILIAR

MANERUL AUXILIAR VA OFERA CONTROL SI SPRIJIN SUPLIMENTAR IN TIMPUL ACTIONARII UNELTEI ELECTRICE. ACEST MANER SE POATE REGLA CU 360° IN JURUL AXEI LU I DE ROTATIE (FIGURA 2)

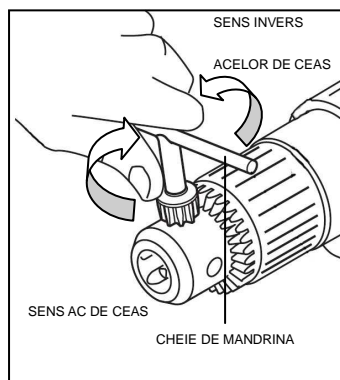


FIG.1

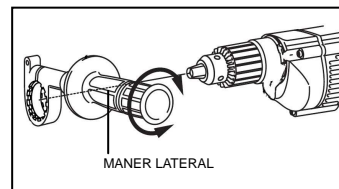


FIG. 2

3. MONTAREA TIJEI DE LIMITARE A ADANCIMII

TIJA DE ADANCIME VA AJUTA LA REALIZAREA DE GAURI UNIFORME LA ACEEASI ADANCIME. DESFACETI MANERUL AUXILIAR SI INTRODUCETI TIJA DE LIMITARE A ADANCIMII IN GAURA DIN MANERUL AUXILIAR. REGLATI TIJA PANA LA ADANCIMEA DORITA DUPA CARE STRANGETI MANERUL AUXILIAR (FIGURA 3).

4. SCHIMBAREA PERIILOR DE CARBUNE

PENTRU A MENTINE UN RANDAMENT RIDICAT AL MOTORULUI UNELTEI ELECTRICE VA RECOMANDAM SA EXAMINATI PERIILE DE CARBUNE LA UN INTERVAL DE TIMP DE 2-6 LUNI. DEOARECE PERIILE DE CARBUNE SUNT PARTE INTERNA A BORMASINII, INLOCUIREA ACESTORA TREBUIE SA FIE REALIZATA DE CATRE PERSONAL SPECIALIZAT.

5. MONTAREA SI DEMONTAREA MANDRINEI

PENTRU DEMONTAREA MANDRINEI SLABITI DISPOZITIVUL DE PRINDERE SI DESFACETI SURUBURILE DIN INTERIORUL MANDRINEI CU O SURUBELNITA PRIN ROTIREA EI IN SENSUL ACELOR DE CEASORNIC; PE URMA

ALEGETI O CHEIE CU CAP HEXAGONAL CORESPUNZATOARE PE CARE O INTRODUCETI IN INTERIORUL MANDRINEI SI O VETI ROTI IN SENS INVERS ACELOR DE CEASORNIC (FIGURA 4)

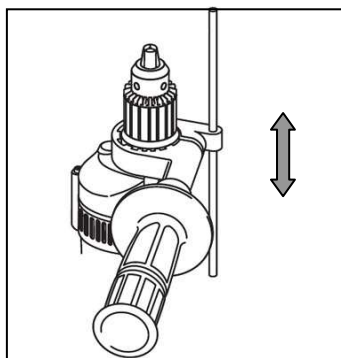


FIG. 3

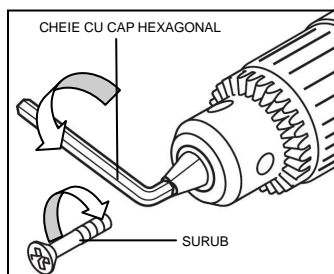


FIG. 4

OPERAREA CU BORMASINA

1. FUNCTIA DE OPERARE IN REGIM CONTINUU

ELIBERATI COMUTATORUL „INCHIS/DESCHIS” INAINTE DE PORNIREA BORMASINII DUPA CARE APASATI BUTONUL DE BLOCARE PENTRU ACTIVAREA OPTIUNII DE LUCRU IN REGIM CONTINUU. DEZACTIVATI FUNCTIA DE LUCRU IN REGIM CONTINUU PRIN APASAREA COMUTATORULUI „INCHIS/DESCHIS” CEEA CE VA CONDUCE SI LA OPRIREA BORMASINII

2. FUNCTIA DE SELECTARE A VITEZEI

BORMASINA POATE SA AIBA VITEZE VARIABLE CEEA CE-I PERMITE SA FUNCTIONEZE DE LA O TURATIE DE 2800 ROTATII/MINUT. PENTRU A REALIZA O GAURIRE PRECISA FOLOSITI INITIAL O VITEZA MICA IN VEDEREA MARCARI UNUI SEMN DE PATRUNDERE A BURGHIULUI, DUPA CARE MARITI VITEZA DE GAURIRE PENTRU A INTRA IN PIESEA DE PRELUCRAT (FIGURA 6).

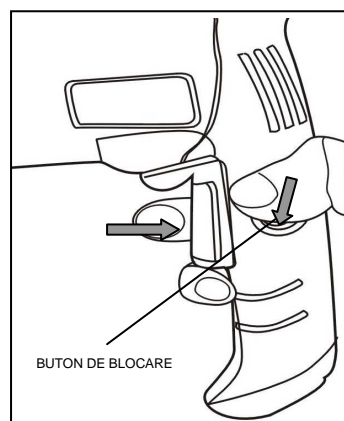


FIG. 5

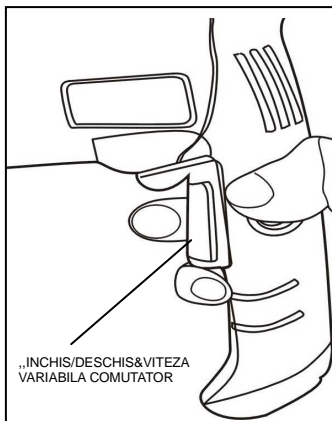




FIG. 6

3. FUNCTIA DE INVERSARE A SENSULUI DE ROTATIE

CU BORMASINA SE POATE INVERSA SENSUL DE ROTATIE A BURGHIULUI; PENTRU A REALIZA MISCAREA DE ROTATIE INSPRE INAINTE MISCATI PARGHIA „INAINTE/INAPOI” PE POZITIA „R”, IAR PENTRU REALIZAREA MISCARI DE ROTATIE INSPRE INAPOI MISCATI ACEEASI PARGHIE PE POZITIA „L” (FIGURA 7).

DACA PARGHIA „INAINTE/INAPOI” SE AFLA PE POZITIA DE MIJLOC ATUNCI BORMASINA NU VA FUNCTIONA. PENTRU A PREVENI DEFECTAREA BORMASINII SCHIMBATI SENSUL DE ROTATIE DOAR DUPA CE UNEALTA ELECTRICA S-A OPRIT COMPLET.

4. FUNCTIA DE GAURIRE SAU DE PERCUTIE A BORMASINII

PENTRU ALEGEREA FUNCTIEI DE GAURIRE POZITIONATI PARGHIA „GAURIRE/PERCUTIE” PE SIMBOLUL  CARE REPREZINTA GAURIRE, IAR PENTRU ALEGEREA FUNCTIEI DE PERCUTIE ASEZATI ACEEASI PARGHIE PE SIMBOLUL  CARE REPREZINTA PERCUTIE.

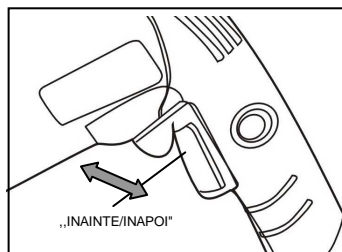


FIG.7

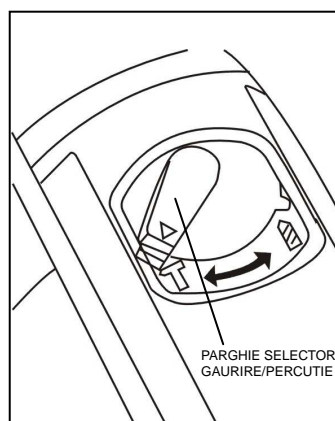


FIG. 8

5. RECOMANDARI PRIVIND OPERAREA CU BORMASINA

• GAURIREA LEMNULUI SAU A MATERIALELOR PLASTICE

FIXATI PIESA DE PRELUCRAT DEOARECE ATUNCI CAND INCEPETI OPERATIA DE GAURIRE APARE RISCUL RANIRILOR PERSONALE PRIN RUPEREA EI.

• GAURIREA METALELOR

PENTRU PRELUCRAREA UNEI PIESE METALICE PRIN GAURIRE REALIZATI MAI INTAI O GAURA DE DIMENSIUNI MAI MICI DUPA CARE MARITI ACEASTA GAURA PANA LA MARIMEA DORITA. UNEORI ESTE NECESAR SA LUBRIFIATI VARFUL BURGHILUI PENTRU A USURA OPERATIA DE GAURIRE.

• GAURIREA IN LUCRARI DE ZIDARIE

UTILIZATI BURGHIE CU CAP VIDIA PENTRU OPERATII DE GAURIRE IN LUCRARI DE ZIDARIE DEOARECE PRESIUNEA APLICATA ASUPRA BORMASINII DEPINDE DE DURITATEA MATERIALULUI PRELUCRAT

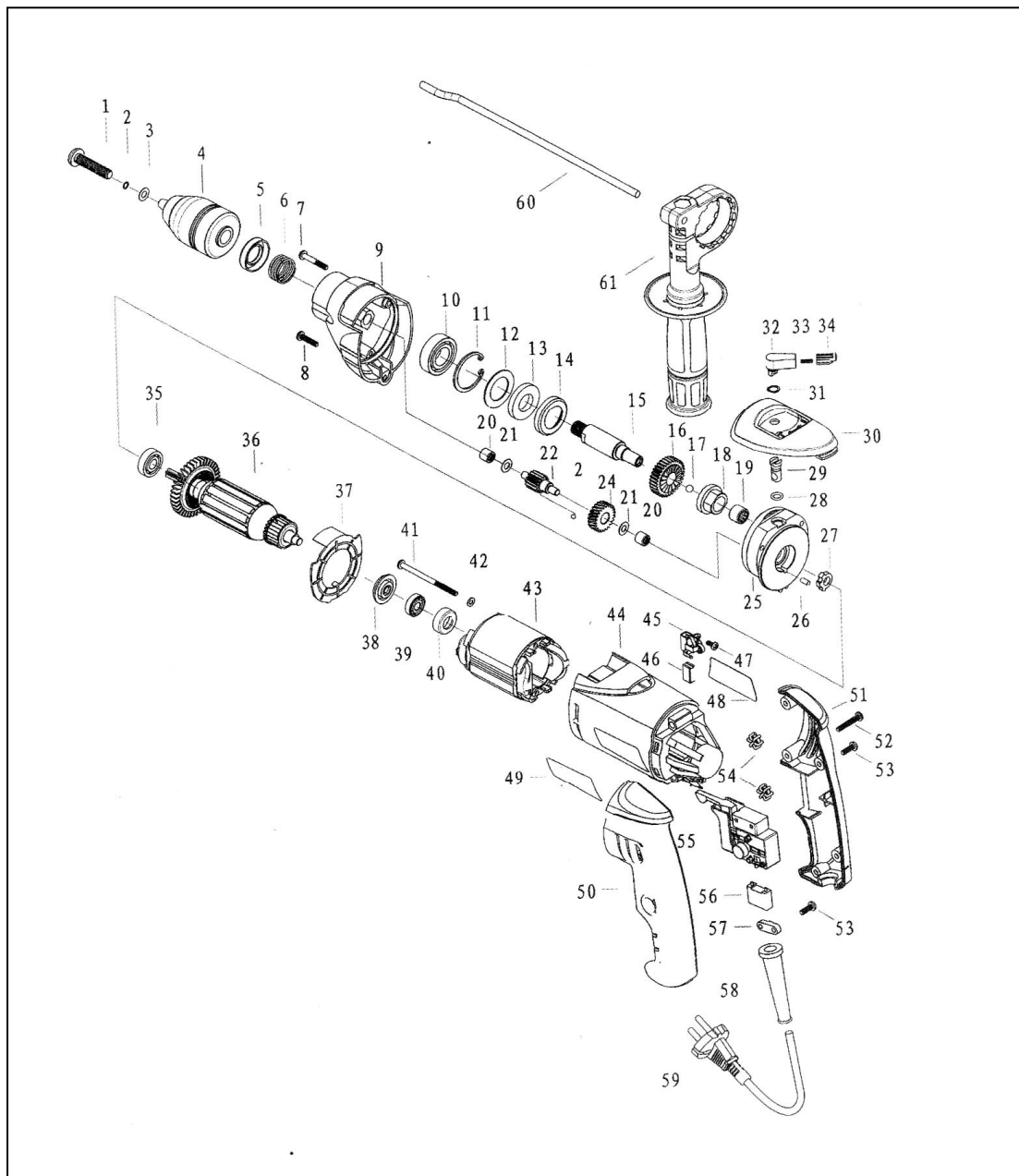
DATE TEHNICE	
MODEL	Z1J-KA8-13
PUTERE CONSUMATA NOMINALA:	710 W
INTENSITATEA NOMINALA	3.3 A
TENSIUNE/FRECVENTA NOMINALA	230 V ~ 50 Hz
TURATIA LA MERSUL IN GOL	0 – 2,800 RPM
DIAMETRUL MAXIM DE PRINDERE AL MANDRINEI:	13 MM
CAPACITATEA MAXIMA DE GAURIRE:	
- <i>BETON:</i>	<i>15 MM</i>
- <i>LEMN</i>	<i>25 MM</i>
- <i>METAL</i>	<i>13 MM</i>
ZGOMOT SI VIBRATII	
- <i>NIVELUL DE PRESIUNE A ZGOMOTULUI</i>	<i>55.7 dB (A)</i>
- <i>NIVELUL DE PUTERE A ZGOMOTULUI</i>	<i>66.7 dB (A)</i>
- <i>NIVELUL VIBRATIILOR</i>	<i>25.4 M/S²</i>
GREUTATEA	2.7 KG

ACCESORII

TABELUL CU ACCESORIILE STANDARD

CHEIE PENTRU MANDRINA	1 BUC.
TIJA DE LIMITARE A ADANCIMII DE GAURIRE	1 BUC.
MANER LATERAL	1 BUC.
PERII DE CARBON (CARBUNI)	1 PERECHE
MANUAL CU INSTRUCIUNI	1 BUC.

SCHEMA PARTILOR COMPONENTE



TABELUL PARTILOR COMPONENTE

PART NR.	DENUMIRE	BUC.	PART NR.	DENUMIRE	BUC.
1	SURUB M5 X 22	1	32	BUTON CU SCALA	1
2	SAIBA ELASTICA 5	1	33	ARC	1
3	SAIBA PLATA 5	1	34	AX BUTON CU SCALA	1
4	MANDRINA 13 MM	1	35	RULMENT 609-2Z	1
5	CASETA ARULUI	1	36	ROTOR	1
6	ARC PERCUTIE	2	37	SAIBA FLUTURE	1
7	SURUB ST 4.2 X 40	1	38	DUST RING	1
8	SURUB ST 4.2 X 18	1	39	RULMENT 607-2Z	1
9	ANGRENAJ	1	40	BUCSA RULMENT	1
10	RULMENT 6003-2Z	1	41	SURUB AUTOFILETANT ST4.2 X 65	2
11	INEL DE SIGURANTA 35	1	42	SAIBA PLATA 4	1
12	SAIBA	1	43	STATOR	1
13	INEL ETANSARE	1	44	CARCASA	1
14	CAPAC	1	45	PERII DE CARBUNE	2
15	AX	1	46	PORT PERII	2
16	ROATA DINTATA	1	47	SURUB AUTOFILETANT ST 2.9 X 8	2
17	BILA OTEL ϕ 5	1	48	ETICHETA INDICATOARE	1
18	SABOT RETINERE SOCURI	1	49	ETICHETA	1
19	RULMENT CU ACE HK1010	1	50	SEMICARCASA SPATE STANGA	1
20	RULMENT CU ACE HK0609	2	51	SEMICARCASA SPATE DREAPTA	1
21	SAIBA PLATA 6	2	52	SURUB DE FIXARE ST 4.2 X 25	2
22	PINION	1	53	SURUB DE FIXARE ST 4.2 X 14	5
23	BILA OTEL ϕ 3	1	54	INDUCTOR	2
24	ROATA CU DINTI INCLINATI	1	55	COMUTATOR	1
25	SUPPORT PRINCIPAL	1	56	CONDENSATOR 0.22 μ F	1
26	STIFT DE AMORTIZARE ϕ 4 X 8	1	57	MANSON CABLU ELECTRIC	1
27	INEL DE CAUCIUC	1	58	MANSON DE PROTECTIE	1
28	GARNITURA (O RING) ϕ 4 X ϕ 1.8	1	59	CABLU DE ALIMENTARE	1
29	AX DE COMANDA	1	60	TIJA DE LIMITARE A ADANCIMII	1
30	CAPAC SUPERIOR	1	61	MANER LATERAL	1
31	SAIBA ELASTICA 8	1			