



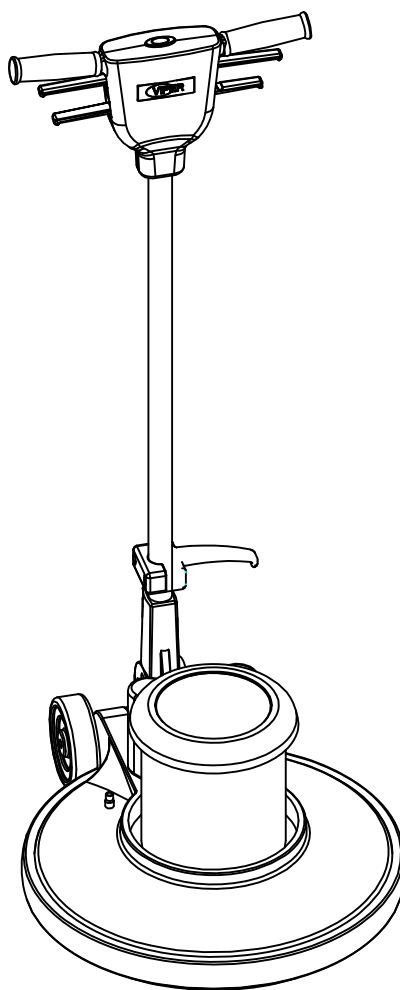
www.vipercleaning.com

LOW SPEED FLOOR MACHINES

OWNERS MANUAL

IMPORTANT: READ OWNERS MANUAL CAREFULLY

Please fill out & return your warranty card !



MODEL #

VF1517 VF1520

SERIAL #

VIPER INDUSTRIAL ESTATE
LIANG BIAN, LIAO BU
DONG GUAN, GUANG DONG
CHINA

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VIPER...exceptional
value

REV.02(10-11)
VF41483



CONGRATULATIONS on your purchase of a Viper product and welcome to the V.I.P. family. We appreciate your business and will do everything in our power to keep you happy with your purchase for many years to come.

As part of the V.I.P. family, you are entitled to the best protection by one of the most comprehensive warranties in the industry.

Thank-you for purchasing Viper products!

Tom Vander Bie, CEO

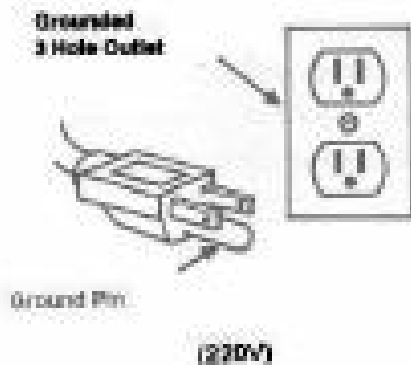
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SAFETY PRECAUTIONS

!!! This machine must be grounded!

Grounding provides a path of least resistance for electrical current. To reduce the risk of electrical shock should the machine malfunction, the machine has a special grounding plug. Don't remove the ground pin



This machine is intended for commercial use. It is constructed for use in an indoor environment and is not intended for any other use. Use only recommended accessories.

All operators shall read, understand and exercise the following safety precautions:

1] Do not operate machine:

- Unless trained and authorized.
- Unless you have read and understand operators manual.
- In flammable or explosive areas.
- With a damaged cord or plug.
- If not in proper operating condition.
- In outdoor areas.

- In standing water
- With the use of extension cords.

2] Before operating machine:

- Make sure all safety devices are in place and operate properly.

3] When using machine:

- Do not run machine over cord.
- Do not pull machine by cord or plug
- Do not pull cord around sharp edges or corners.
- Do not unplug by pulling on the cord.
- Do not stretch cord.
- Do not handle plug with wet hands.
- Keep cord away from heated surfaces.
- Do not pick up burning or smoking debris such as cigarettes, matches or hot ashes.
- Report machine damage of faulty operation immediately.

4] Before leaving or servicing machine:

- Turn off machine.
- Unplug cord from outlet.

5] When servicing machine:

- Unplug cord from outlet.
- Use manufacturer supplied or approved replacements parts.

Operation of Floor Machines

*** READ OPERATORS MANUAL
THOROUGHLY PRIOR TO OPERATING OR
SERVICING THIS MACHINE.**

GENERAL USE

1. Remove any obstructions or other obstacles in the area which is to be cleaned.
2. Place the handle in the upright position and tilt machine back until handle rests on the floor
*** Be sure the machine is not plugged into an outlet**
3. Attach the pad driver or brush to the machine by placing the clutch plate over the gearbox hub and turning the driver / brush $\frac{1}{4}$ turn.
4. Place machine back into its upright position.
5. Plug power cord into a grounded outlet.
*** Never use an extension cord in conjunction with the standard power cord.**
6. The handle height may be adjusted by lifting up on the handle release lever located on the right side of the switch housing. Pull trigger and lower handle to desired operating position. Release trigger to lock the handle into position.
7. To start the machine, press the red safety button on the top of the upper switch housing, and then squeeze either of the operating triggers. (the safety button must be depressed prior to squeezing the operating triggers.)
8. When the machine is in operation, both hands should be placed on the switch housing (upper handle).
9. During operation, to make the machine go right, gently raise the handle. To make the machine go left, gently lower the handle.

10. To stop the machine at any time, simply release the operating trigger(s) and the machine will stop automatically.

MAINTENANCE

To keep the machine performing well for many years, please follow the following maintenance procedures.

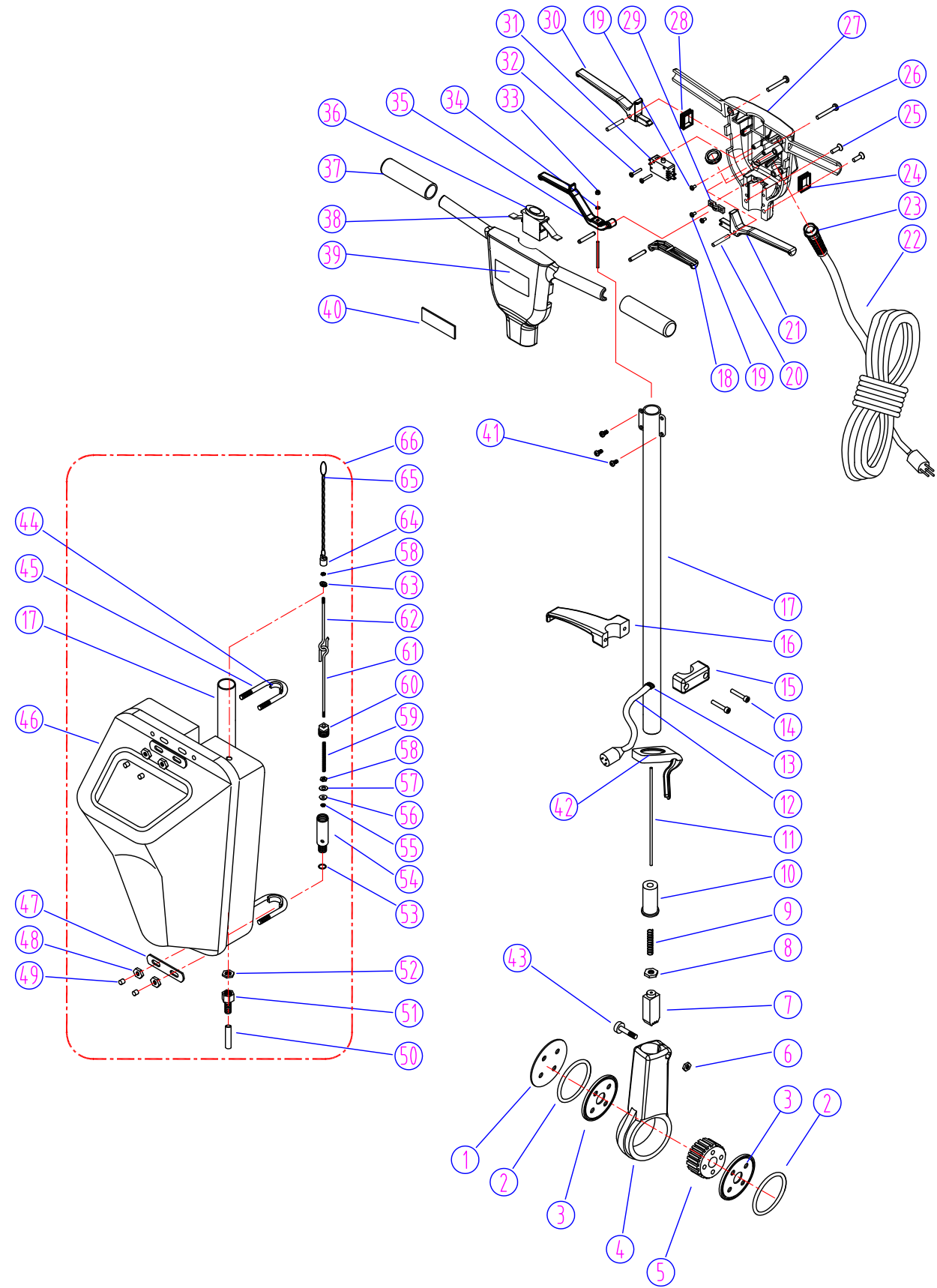
*** Always confirm that the machine is unplugged prior to performing any maintenance or repairs.**

1. Unplug machine as soon as you are done using it.
2. Tilt machine back and remove pad driver or brush.
*** Never store a low speed machine with the pad driver or brush mounted to the machine.**
3. Clean the outside of the machine with a mild cleaner.
4. Check power cord for any damage. If damage is detected, replace power cord immediately.
5. Lubricate wheels with a water resistant lubricant once a month.
6. Check machine for loose or missing nuts and bolts, and replace as necessary.
7. If the machine is used in a dusty environment, you may remove the motor cover and blow the motor clean with compressed air. This will ensure proper ventilation, and allow the motor to run cooler.

STORAGE

1. Unplug machine from power source and wrap cord on handle.
2. Tilt machine back and remove pad driver or brush.
3. Store machine in upright position and in a dry area.

HANDLE GROUP



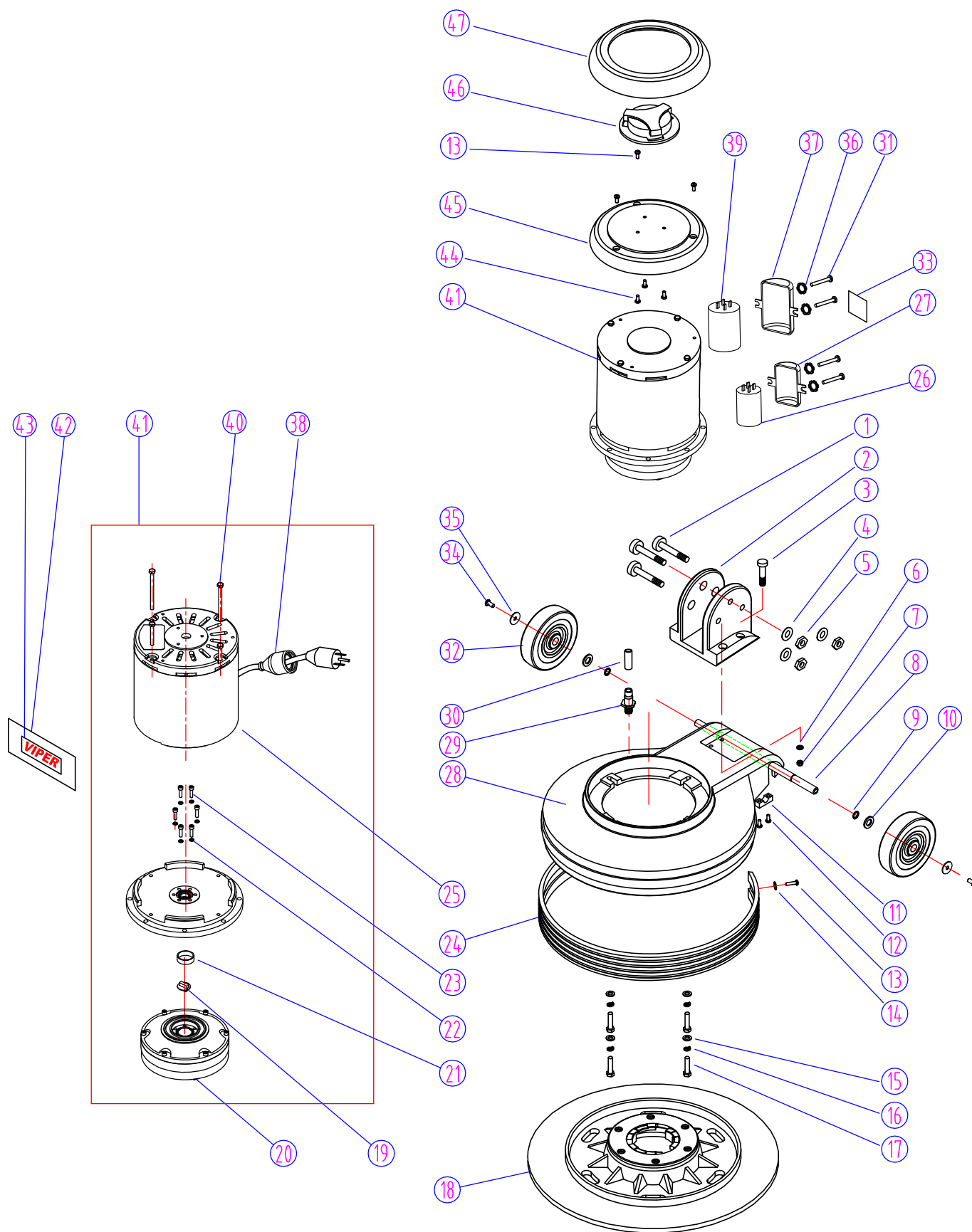
HANDLE GROUP FOR VF1517 VF1520

DIA NO	PART NO	DESCRIPTION	NO REQ'D
1	GV40229	COVER 密封端盖	1
2	GV40228	"O"RING,GEAR SEAT "O"密封圈	2
3	GV40227	WASHER,NYLON 尼龙垫片	2
4	VF40104F	SEAT,GEAR 铝套座	1
5	VF40125B	GEAR 调位齿轮	1
6	VF13502	NUT,LOCK,M6 防松螺母 M6	1
7	VF47052	INSERT 调位齿杆	1
8	GT13013	NUT M4 六角螺母 M4	1
9	VF40121	SPRING LEVELING 拉杆弹簧	1
10	VF40105	RETAINER 拉杆套	1
11	VF44004	ROD LEVELING 长拉杆	1
12	VF45117	CORD,HANDLE 手柄内电线	1
	AS41901	PLUG PROTECTOR,LARGE FEMALE 防水内套	1
13	VF50120	GROMMET 电源线保护胶圈	1
14	GT13031	SCREW M6X35 内六角螺钉 M6X35	2
15	VF44002-2	COVER,HOOK 绕线架盖板	1
16	VF44002-1	HOOK,CABLE 绕线架	1
17	VF40117	TUBE 主管	1
18	VF44018	LEVER,SOLUTION 放水拉把	1
19	VV13650	SCREW,M4X10 十字盘头螺钉 M4X10	3
20	VF48306	PIN 定位销	4
21	VF44016	LEVER,LEFT,SWITCH 左开关拉把	1
22	VF45118	CORD,POWER SUPPLY 电源线	1
23	VF44005	STRAIN RELIEF,CORD 电源线保护套	1
24	VF30108	GASKET,HANDLE SOLUTION 放水拉把垫	1
25	VF14223	SCREW M6X25 十字沉头螺钉 M6X25	2
26	VF14218	SCREW M6X45 十字盘头螺钉 M6X45	2
27	VF44015	REAR COVER 手柄后盖	1
28	VF30107	GASKET,HANDLE LEVELING 调位拉把垫	1
29	VF48309	CLAMP BLOCK 压线块	1
30	VF44017	LEVER,RIGHT,SWITCH 右开关拉把	1
31	VF44203	SWITCH ASSY 电源开关	1
32	VF14212	SCREW M3X25 十字盘头螺钉 M3X25	2
33	GT13014	NUT,LOCK,M4 防松螺母 M4	1
34	GT13017	WASHER,PLAIN ϕ 4 平垫圈 ϕ 4	1
35	VF44019	LEVELING ROD 调位拉把	1
36	VF46705	SAFETY BUTTON 保险键	1
37	VF48310	HAND GRIP 扶手护套	2
38	GV40218	SPRING,SAFETY BLOCK 开关弹簧片	1
39	VF44014	FRONT COVER 手柄前盖	1
40	VF47035A	LOGO "VIPER"标牌	1
41	VF14222	SCREW M5X12 十字盘头螺钉 M5X12	4

HANDLE GROUP FOR VF1517 VF1520

DIA NO	PART NO	DESCRIPTION	NO REQ'D
42	GV40241	SEAL SEAT 防水胶套	1
43	VF14053	SCREW M6X25 内六角螺钉 M6X25	1
44	VF40140	GASKET 双头螺栓垫	2
45	VF40136	BOLT 双头螺栓	2
46	VF40130	TANK 水箱	1
47	VF40141	CLAMP PLATE 水箱压板	2
48	VF13503	NUT,LOCK M8 防松螺母 M8	4
49	VF99015	RUBBER CAP 双头螺栓胶盖	4
50	VF40139	HOSE,SOLUTION 双头螺栓胶盖	1
51	VF40132	BARN HOSE 溶液管	1
52	VF40142	NUT,M14 螺母 M14	1
53	VF41020	"O"RING "O"密封圈	1
54	VF40131	VALVE BODY 阀体	1
55	VF40155	NUT,M5 六角元台螺母 M5	1
56	VF40134	SEAL,RUBBER 锥型密封堵	1
57	VF40138	WASHER,PLAIN ϕ 5 铜垫圈 ϕ 5	1
58	VF40144	SCREW,M5,BRASS 铜螺母 M5	2
59	VF40135	SPRING 弹簧	1
60	VF40133	SCREW 放水阀螺堵	1
61	VF40148	LOWER PULLING ROD 拉钩	1
62	VF40137	UPPER PULLING ROD BRASS 拉杆	1
63	VF40147	SEAL,TANK 水箱拉杆密封套	1
64	VF40156	SEAT CHAIN 链条座	1
65	VF41021	CHAIN 链条	1
66	MF-VF001	SOLUTION TANK ASSY 水箱组件	1

BASE GROUP



BASE GROUP FOR VF1517 VF1520

DIA NO	PART NO	DESCRIP TION	NO REQ'D
1	GT13016	SCREW M8X60 内六角螺钉 M8X60	3
2	GV40240H	MOUNTING BASE,GEAR 铝套座支架	1
3	GT13080	SCREW M6X35 内六角螺钉 M6X35	4
4	VF13514	WASHER,PLAIN ϕ 8 平垫圈 ϕ 8	3
5	VF13503	NUT,LOCK,M8 防松螺母 M8	3
6	GT13030	WASHER,PLAIN ϕ 6 平垫圈 ϕ 6	4
7	VF13502	NUT,LOCK,M6 防松螺母 M6	4
8	VF44013	AXLE 轮轴	1
9	VF13520	WASHER,LOCK 开口挡圈 ϕ 12	2
10	VF50119	WASHER,LOCK 鞍型垫圈	2
11	GV40235	CLAMP BLOCK,AXLE 轮轴固定块	2
12	VV13621	SELF-TAPPING SCREW ST5X20 十字盘头平尾自攻丝 ST5X20	4
13	VA13474	SCREW M5X16 十字盘头螺钉 M5X16	5
14	VF13474A	WASHER,PLAIN ϕ 5 平垫圈 ϕ 5	2
15	VF13524	WASHER,PLAIN ϕ 8 平垫圈 ϕ 8	4
16	VF13519	WASHER,LOCK ϕ 8 弹簧垫圈 ϕ 8	4
17	GT13018	SCREW M8X30 外六角螺钉 M8X30	4
18	MF-VF021	16"PAD HOLDER 16"针座	1
	MF-VF022	19"PAD HOLDER 19"针座	1
19	VF99021	COULPING 联轴器	1
20	VF999802B	GEAR BOX 齿轮箱	1
21	MT01102	SLEEVE 隔套	1
22	VV13601	WASHER,LOCK ϕ 5 弹簧垫圈 ϕ 5	6
23	VV13636	SCREW M5X30 内六角螺钉 M5X30	6
24	GV40233	BUMPER 17" 防撞边 17"	1
	GV40233A	BUMPER 20" 防撞边 20"	1
25	VF999790	MOTOR 1.5HP 电机 1.5HP	1
26	VF32109	RUNNING CAPACITOR,20uF/500V 运行电容 20uF/500V	1
27	YLQ14601	MOUNTING FRAME(SMALL),CAPACITOR 小电容罩	1
28	VF40101D	FRAME 17" 壳体 17"	1
	VF40100D	FRAME 20" 壳体 20"	1
29	VF40152	BARB HOSE 机体水管接头	1
30	VF40139	HOSE,SOLUTION 溶液管	1
31	VV20509	SCREW M5X10 十字盘头螺钉 M5X10	4
32	VF48202	WHEEL 5" 5"轮子	2
33	VF40994	READ MANUAL LABEL 头像贴纸	1
34	VF44012	SCREW,M6X12.7 防松螺钉	2
35	VF13666	WASHER,PLAIN ϕ 6 平垫圈 ϕ 6	2
36	VF13604	WASHER,LOCK,OUTER TOOTH 齿形垫圈 ϕ 5	4
37	YCQ10615	MOUNTING FRAME(BIG),CAPACITOR 大电容罩	1
38	AS41902	PLUG PROTECTOR SAMLL MALE 防水外套	1
39	VF999849	START-UP CAPACITOR(BIG),100uF/300V 运行电容 100uF/300V	1
40	YLQ17507	BOLT ASSY 螺栓套装	4
41	VF999791	MOTOR ASSY 1.75HP 电机连齿轮箱	1
42	VF44003	LABEL,MOTOR 电机银丝龙贴纸	1
43	VF41079	LABEL,VIPER "VIPER"贴纸	1
44	VF14222	SCREW M5X12 十字盘头螺钉 M5X12	3
45	VF30001	TOP COVER,MOTOR 电机顶盖	1
46	VF30002	CLUTCH PLATE 刷盘固定座	1
47	VF47023	BUMPER,TOP COVER 电机顶盖密封圈	1

安全预防

⚠️ 本机必须接地！

为减少机器因故障而引起的触电危险，本机电源线插头带有一接地插脚，任何情况下不得去除该插脚。

本机仅作商业用途，并限于户内使用。务必使用推荐的附件，操作者应阅读，理解并掌握以下安全预防措施：

- 1、以下情况不得操作本机：
 - 未经培训取得相应资格；
 - 未仔细阅读和理解操作手册；
 - 在易燃易爆场所；
 - 电源线或插头损坏；
 - 机器存在问题不适合操作；
 - 在户外时；
 - 在水中；
 - 使用延长线；
- 2、操作机器前：
 - 务必确保所有安全装置动作正常；
- 3、使用机器时：
 - 不得碾压电线；
 - 不得靠牵拉电线的方式移动机器；
 - 不得将电线置于物件锋利的边、角；
 - 不得用拉电线的方式拔取插头；
 - 切勿用湿手拔取插头；
 - 始终使电源线远离发热的物件表面；
 - 应立刻报告机器任何之异常及损坏情况；
- 4、离开机器或进行维护前：
 - 务必关机并拔下电源插头；
- 5、进行维护时：
 - 应拔下电源插头；
 - 使用产商推荐的或认可的配件；

储存时

- 1、拔下电源插头；
- 2、取下针座或刷子；
- 3、直立存放于干燥的场所；

维护与保养

为使本机始终保持良好的性能，请遵循以下程序保养本机

⚠️ 进行任何维护、保养工作前，必须确保机器已断开电源

- 1、机器一经使用完毕，立即拔下电源插头；
- 2、取下针座或刷子；
- ⚠️ 存放机器时，切勿忘记取下针座或刷子
- 3、用中性清洁剂清洁机器；
- 4、检查机器电源线有无破损，如有应立即进行更换；
- ⚠️ 为避免危险，若电源线破损，必须联系当地售后服务部进行更换；
- 5、每月用防水润滑剂润滑轮子、轴；
- 6、检查机器有否遗失螺母、螺栓并进行更换；
- 7、机器在粉尘的场所使用后，应取下电机顶盖，用压缩空气吹净附着在电机上的灰尘以保证良好的通风。

操作说明

⚠️ 使用或维护本机前务必仔细阅读说明书

- 1、使用前应清理工作区域内的杂物、纸屑等；
- 2、将手柄置于垂直位置后，将机器倾斜使手柄靠在地面；
- ⚠️ 确认机器此时未接通电源；
- 3、松开螺母，取下中心定位器；
- 4、取合适的抛光垫粘在针座上，并用中心定位器压紧；
- 5、将机器置于垂直位置；
- 6、将电源线插头插入带接地的插座中；
- ⚠️ 切勿使用与电源线不一致的延长电缆；
- 7、拉住调节拉把将机器手柄调节至合适操作位置；
- 8、按下位于手柄上方的红色按钮同时拉住左、右拉把即可启动机器；
- 9、操作时、双手必须牢牢握住操作手柄；
- 10、操作时，只要轻轻地抬起手柄，机器便会向右移动，轻轻按下手柄，机器便会向左移动；
- 11、停机时，只需松开左、右拉把即可；

Wiring Diagram

