

OWNER'S MANUAL



BUFFER
21", 24"
27" & 31"
MODELS



(215) 721-4455 (800) 331-1423 FAX (215) 721-7213
4300 BETHLEHEM PIKE • TELFORD, PA 18969

I. POWERED EQUIPMENT PREPARATION

- A.** Familiarize yourself with equipment by reading manuals and identifying components and controls.
- B.** Check that suggested maintenance schedule has been observed.
- C.** All machines are equipped with a multi-function maintenance meter. The four functions include the following: hours, job timer, service alarm and tachometer. (See **Engine Maintenance Meter Instructions**)
- D.** Never let an untrained person operate or perform repairs on the machine. They may hurt themselves, damage the floor or the equipment.
- E.** Never change or alter the propane control equipment!
- F.** Always check oil before attempting to start engine!
- G.** Install approved and properly filled propane tank.
 - **Never complete the connection of the tank to the machine by using a wrench. Always do it by hand. Listen for the rush of fuel to the lock-out device when you open the tank valve. If you hear this, it will indicate that a good connection has been made at the tank.**
 - **European tank connections may require use of a wrench. However, care should be taken not to overtighten the gas fittings.**
 - **Provide and use ear protection during operation.**

II. STARTING THE ENGINE

- A.** Open propane (LPG) tank valve (counter clockwise).
- B.** Set throttle control at idle for 12 V & choke for electric start system.
- C.** 12 volt system - turn key to the start position & move throttle toward fast position. If engine does not start, release key and return to step "B". If hard starting, refer to step "B".
- D.** Electric start - push "Start" button until engine starts. Starter should not be engaged for more than 10 seconds at a time.
 - **When a propane tank is overfilled it may temporarily cause the fuel regulator to malfunction. Remove the tank to a well ventilated location. Release some gas until the cloud disappears and escaping gas is "clear." Reinstall tank.**
 - **All machines are equipped with tamper proof fuel systems. If a fuel problem exists, contact an authorized service center.**

- **Propane tanks should be removed & stored in a protected off site area.**
- **No machine with a Dead Man Lever Clutch should be left running disengaged. Upon starting, engage clutch immediately to prevent belt from burning. Burning of the belt causes premature failure and is a misuse not covered by warranty.**

III. BUFFER OPERATION

- A.** Install appropriate buffer pad (see maintenance below).
- B.** Start engine with machine tilted so pad is off floor.
- C.** Engage clutch immediately.
- D.** Follow machine (straight ahead) at moderate walking speed. Keep moving.
 - **Do not operate the machine in one location for more than a few seconds — it will damage — "burn" the finish.**

Do not disengage the clutch and leave running for more than 30 seconds. It can damage the clutching belt.

- **When new belts are installed there is a "breaking in" period (several hours of use) during which time the clutch may not fully disengage. Contact with floor should stop rotation. Never tilt machine back when engine is running.**
- **When operation is completed remove tank and store in a secure, protected off site (preferably outdoor) location.**
- **Do not use for scrubbing operations.**
- **Engine speed not to exceed 2800 (20HP) or 3400 (14HP).**
- **This machine is not suitable for picking up hazardous dust.**
- **Do not use on surfaces with a gradient exceeding 2%.**
- **Never tilt back machine to maintenance position while engine is running.**
- **Never reach under protective shroud when engine is running.**

IV. CAUTION IN STORAGE AND HANDLING: PROPANE TANKS

- A.** Always store equipment away from heater rooms, boilers, gas-fired water heaters or any other source of open flame.
- B.** Always store equipment away from possible damage by falling objects in warehouse-type areas.

- C. Always vent an over-full bottle out of doors away from all closed places and away from any fire or flame producing device. Use a screwdriver to vent excess propane which escapes as a white mist until at proper level in tank.
- D. Always store LPG tanks outside. Remove all tanks from inside building except during equipment use. Store them in a secure, well ventilated area.

21", 24", 27" & 31" BUFFER INFORMATION

I. ENGINE

- A. See engine manual for maintenance schedule.

- Consult local laws regarding used oil and battery disposal.

II. PAD DRIVE FACING, BELT, IDLER PULLEY, OR DRIVE SHAFT REPLACEMENT:

- A. Adjust the handle to enable the buffer to stand on rear wheels.
 - Handle must be in shipping (forward) position to insure stability in the "tilt back" position. A second person should aide in the lift and to secure the buffer while being serviced.
 - Do not use "T" handle when attempting to tilt back machine for service or cleaning. "T" handle is designed for control during operation — Do not use excessive vertical pressure.
- B. Remove pad drive nut & pad centering device and four (4) bolts (9/16" wrench).
- C. Remove pad drive. (Replace if worn.)
- D. Remove idler pulley. (Replace if worn.)
- E. Remove belt(s). (Replace if worn.)
- F. To remove driveshaft unit: Remove retaining bolt & clip—pull driveshaft out of housing—use of a slide hammer may assist in removal (Do not pry with crow bar). While drive shaft is removed, spin bearings. If roughness is felt, bearing replacement may be necessary.
- G. To reassemble, reverse order of all steps taken above.

III. CABLE REPLACEMENT:

- A. Remove cable conduit (black sheath) from its resting place in the cable stop on the handle.

- B. Remove the retaining pin from the "Clutch" lever on the handle.
- C. Adjust the handle to enable the buffer to stand on its rear wheels.
- D. Remove spring or springs (1-spring 21"-27"; 2 springs 22"-31") + SW from the cable end.
- E. Reverse above order to install new cable.

NOTE: Make sure flat ends of both springs are facing each other.

NOT ALL OF THESE STEPS WILL BE NECESSARY FOR ALL JOBS, BUT IF THEY ARE, THE ENTIRE JOB CAN BE COMPLETED WITH A FEW TOOLS IN LESS THAN 15 MINUTES!!!

IV. LUBRICATION INSTRUCTIONS:

- A. Refer to engine manufacturer's owners manual and comply completely with the lubrication instructions. Any evidence of under - lubrication will make a claim against the manufacturer invalid.
- B. Keep a good service log on each machine with the date, hour meter reading, type(s) of service performed and the name of the person who performed them. This will assist you and Aztec in spotting weaknesses in our respective areas of responsibility. A standard maintenance log is available at any stationary store.

V. TROUBLESHOOTING THE ELECTRICAL SYSTEM

- A. First, check all wire connections for obvious problems. Remove LPG tank, then remove battery box cover. Check all connections visibly and physically. If any "loose", damaged or unconnected wires are noticed, contact Aztec and/or put wires back in their proper place.
 - **Always wear a face shield, safety glasses and protective clothing when working around a battery!! The gases can be explosive and the acid is highly corrosive to metals, cloth and ALL HUMAN TISSUE (skin, eyes, etc.) If the battery post(s) are corroded, remove the wires and clean posts and wires well. You may wish to put some axle grease on the posts or the battery after they are cleaned. This will slow down the battery corrosion process.**

IF NOTHING OBVIOUS IS NOTED, A MORE DETAILED INVESTIGATION IS WARRANTED. BEFORE ANY SUCH TROUBLE SHOOTING BEGINS, THE FOLLOWING THINGS SHOULD BE DONE:

1. Replace propane (LPG) tank with one from a machine that runs.
2. Charge the battery or provide an absolute source of 12 volt DC power capable of 50 amperes total output. (A pair of good jumper cables from your car or truck battery will suffice.)
3. Equip yourself with an inexpensive 12 volt test light.
4. If the trouble seems to be in the electrical control equipment, you may wish to disconnect the starter from the system so as to check the system without spinning the engine.

VI. ENGINE MAINTENANCE METER

- A. This meter is used to perform preventive maintenance which benefits you with increased fuel economy, less down time and longer engine life. It is simple to operate because of its functional and user friendly design and has a function for every application, detailed as follows:

HOUR METER: Records actual running time of engine. Non-erasable.

JOB TIMER: An erasable, independent timer. A perfect accessory for job costing and billing purposes.

SERVICE ALARM: Makes setting your own service interval a snap. Display flashes when service interval is reached. Helps you perform preventive maintenance (oil & filter changes, lubrication and cleaning, etc.) within manufacturers' recommendations.

TACHOMETER: Tells you what R.P.M. your engine is running at for maximum power and efficiency. Reads up to 6,000 R.P.M.

VII. OPERATING INSTRUCTIONS

- A. Push and release mode button to advance to next function.
- Hour meter—indicated by TOT TIME on display, is non-re-setable.
 - Tachometer—upon entering this function you will see P1, P2 or P3 for 3 seconds on the right hand side of the display. This is the programmed pattern. To access MAXTCH (the highest RPM the engine has been run at) be in the RPM mode and hold the mode button down for more than 10 seconds. Release button on the desired firing pattern.

Tachometer Firing patterns:

P1- 1 Spark: 1RPM-Most air cooled engines.

P2- 2 Sparks: 1RPM-Specialty engines, dual point ignition.

P3- 1 Spark: 2RPMs-Engines with ignitions driven from camshafts or distributors.

- Job Timer—to erase, be in the JOB TIME function and hold mode button down for 3 seconds.

Service Alarm—to program a service interval, be in the SVC SET function and hold the mode button down. Release button on the desired hour. When the SVC TIME reaches the service interval you programmed, the display will flash indicating service is due. This flashing will continue until the SVC TIME is cleared. Perform necessary service then advance to the SVC TIME function and hold the mode button down for 3 seconds, the SVC TIME will clear and the flashing will stop. SVC TIME will now start building back up to the service interval you programmed in SVC SET.

RETURN GOODS POLICY

As an Aztec customer, you are aware that the equipment we design and build is both innovative and unique. Since this is true, in order to trouble-shoot our equipment, we rely heavily on returned defective or failed parts so that we can examine first-hand the causes of failure. While this may at first seem to be an inconvenience, ultimately you benefit from safer and better designed machine components. Please give us the opportunity to serve you better by following these RGA (Returned Goods Authorization) rules.

1. We maintain the serial number, date of shipment or sale, and customer name on each piece of equipment sold. If you were the purchaser, please reference that information on your request for replacement or repair. If you purchased the equipment through a distributor, please contact them first. If you are not satisfied, contact Aztec and give us the Distributor name, purchase date, and the serial number of the product.
2. Order the replacement part from your distributor or Aztec Products by calling 800-331-1423 during normal business hours (8:30-5:00 Eastern Time). We will ship warranted parts at our expense.
3. When dealing with Aztec ask for an RGA number when you are ordering the replacement part. Return the failed part to us within 30 days, freight prepaid,

RETURN GOODS POLICY (cont'd)

exactly as it was at the time of failure. Our inspection and evaluation will attempt to determine the probable cause of failure.

4. If our inspection reveals that the failed part was defective, we will credit your account for the entire amount of the part including your cost of return freight. When incomplete parts are returned for credit, their condition or state of incompleteness will be assessed against the credit claim at the sole discretion of Aztec Products, Inc.
5. We also offer to do warranty related repairs free of charge at our facility. Arrangements must be made in advance as outlined above. We will not accept freight

collect returns or returns that do not indicate the RGA # on the packing list.

Your satisfaction in all of your dealings with Aztec Products, Inc. is extremely important to us. We intend to be reasonable on any matter that is related to our warranted service or other wear-related problems which our customers feel need attention. Please help us to help you. Before assuming that a part is defective, check the repair manual to see if the problem might be something that you or one of your employees might be capable of correcting. If it is not, follow the above policy and depend on us to respond quickly and responsibly.

AZTEC PRODUCTS WARRANTY

Aztec Products, Inc. warrants its products to be free from defects in material and workmanship for a period of one year from the date of sale. (Sidewinders will be warranted for one year or the total wear time on a set of brushes, whichever comes first.) All engines are warranted by the manufacturer of the engine. Honda is warranted for 2 years. The Onan engines are warranted for 3 years but can be extended to 5 years.

Aztec Products, Inc. agrees, at its discretion, to repair or replace at its own expense any product or part(s) which examination proves to be defective in workmanship or materials provided that the purchaser notifies Aztec Products, Inc. directly, within the warranty period and follows the **Return Policy**.

This warranty does not apply to or cover equipment damaged by misuse, abuse, neglect, accident, or any use not specified in the instruction manual, or any other circumstances that are clearly out of the control of Aztec Products, Inc. or their authorized agents.

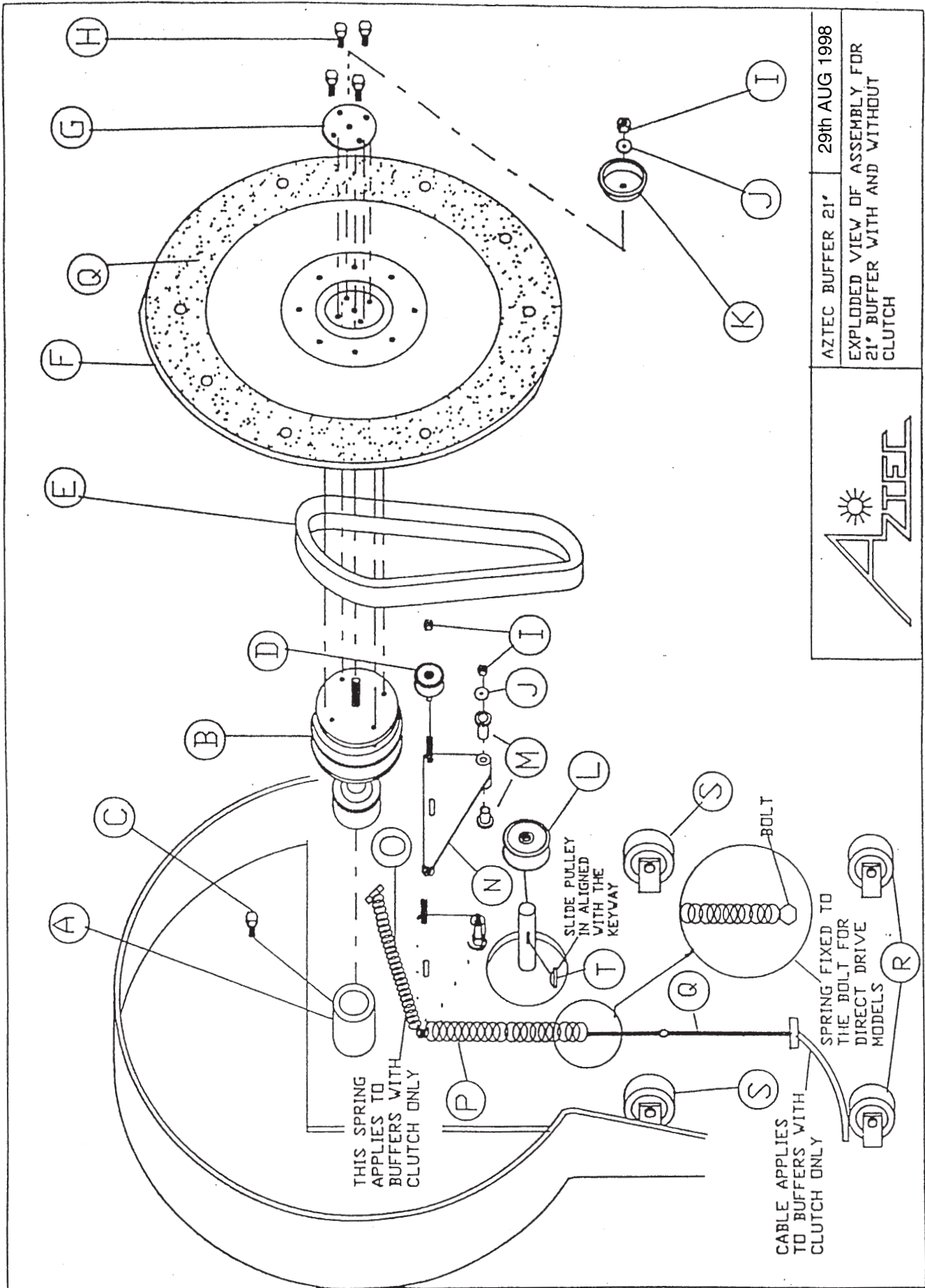
The propane devices are to be regarded as non-serviceable equipment. All repairs or changes must be made under the supervision or arrangement of Aztec Products, Inc. or their agents unless prior written consent has been issued. Any deviation from this arrangement shall make the owner of the equipment and/or party involved in those changes responsible for any and all damages resulting from such changes.

The foregoing is the entire and only Aztec Products, Inc. warranty which in no event covers incidental or consequential damages resulting from any such defective product or part(s). This warranty gives specific legal rights. Purchaser may have other rights which may vary from state to state.

Warranties are not transferable.

PART LIST FOR 21" BUFFER

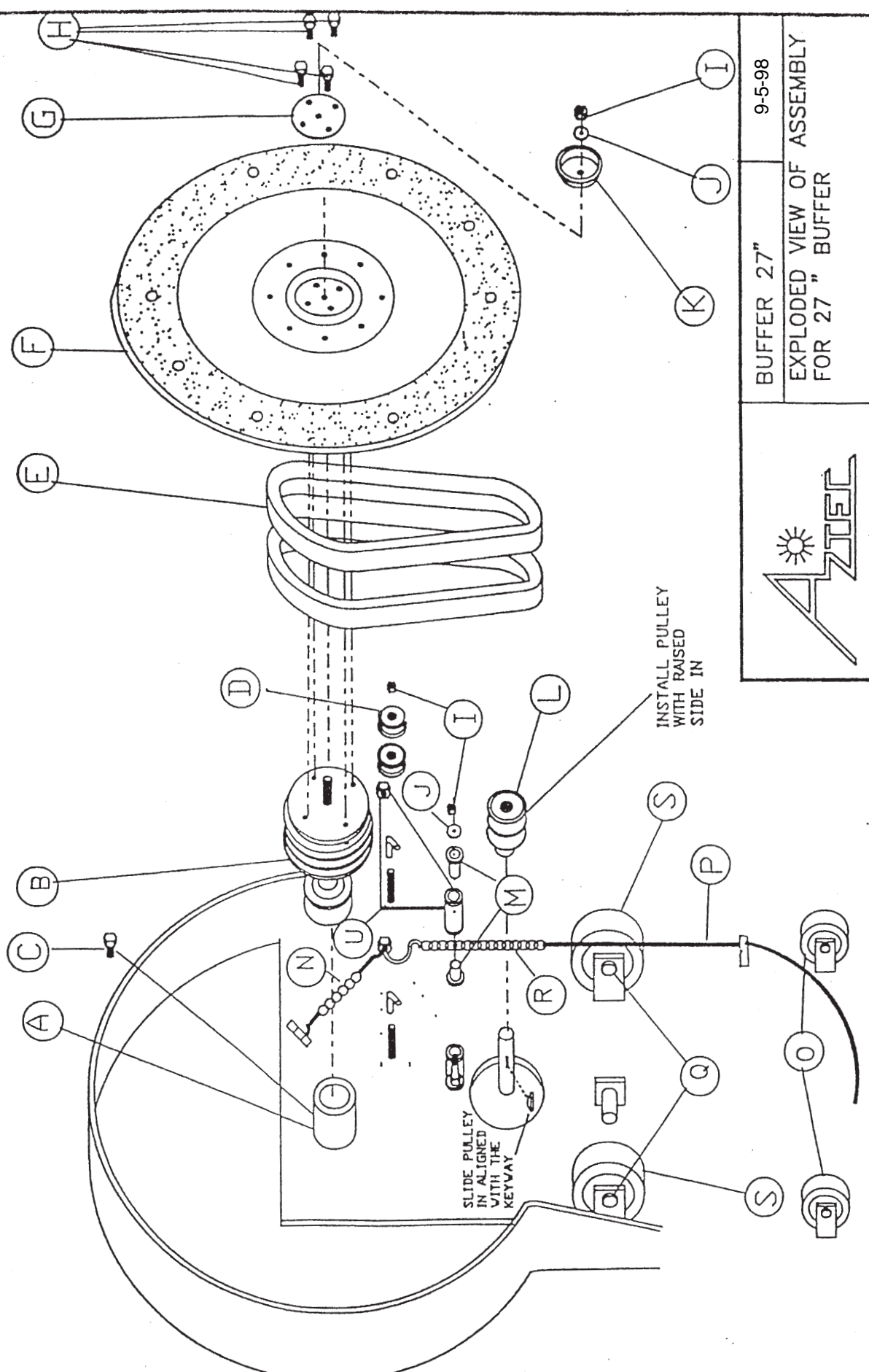
PART	DESCRIPTION	PART NUMBER	QTY	NOTES
A	BEARING CAPTURE	N/A	1	
B	DRIVE SHAFT	011-962DS	12	
C	SET SCREW	N/A	1	1/4x20x1/2" BOLT
D	FLAT IDLER PULLEY	188/F4412	1	
E	DRIVE BELT	113-345		
F	PAD DRIVER	011-862PD	1	
G	WASHER PLATE	283-Q333-R2	1	5 1/2" WASHER PLATE
H	BOLT	N/A	4	3/8" -16x3/4" BOLT
I	HEX NUT	N/A	3	3/8" -16 HEX NUT
J	FLAT WASHER	N/A	2	5/16" FLAT WASHER
K	DRAWN CUP	001-962DC	1	
L	ENGINE CRANK PULLEY	172-BS32	1	3.0Px1" B PULLEY
M	NYLON BUSHING	196-71200	2	
N	CLUTCHING IDLER	011-862I	1	
O	SPRING	173-7500-DWG	1	.085-.75(OD)x5" SPRING
P	SPRING	173-7599-DWG	1	.085-.75(OD)x7" SPRING
Q	CLUTCH CABLE	011-962C	1	
R	POLY WHEEL	156-PB-03041-08	2	3x1.25 POLYOFIN WHEEL
S	4" WHEEL	156-SRB-4H3	2	
T	KEY	199-NHNT-SE-UND	1	1/4" SQUARE KEY



AZTEC BUFFER 21" 29th AUG 1998
 EXPLODED VIEW OF ASSEMBLY FOR 21" BUFFER WITH AND WITHOUT CLUTCH

PART LIST FOR 27" BUFFER

PART	DESCRIPTION	PART NUMBER	QTY	NOTES
A	BEARING CAPTURE	N/A	1	
B	DRIVE SHAFT	011-762DS	1	
C	SET SCREW	N/A	1	1/4" -20x1/2" BOLT
D	VEE IDLER PULLEY	188-V42B	2	
E	BELT	113-L549	2	113-L550(20HP)
F	PAD DRIVER	011-762PD	1	
G	WASHER PLATE	283-Q333-R3	1	8 1/2" WASHER PLATE
H	BOLTS	N/A	4	3/8" -16x3/4" BOLT
I	NUTS	N/A	4	3/8" -16 HEX NUTS
J	FLAT WASHER	N/A	2	5/16" FLAT WASHER
K	DRAWN CUP	001-962DC	1	
L	ENGINE PULLEY	172-2BK28-1 14 HP	1	172-2BK34-1 20 HP
M	NYLON BUSHING	014-962I	2	
N	SPRING	173-7500-DWG	1	.85x.75(OD)x5" SPRING
O	POLYWHEELS	156-PB-03041-08	2	3x1.25 POLYOFIN WHEEL
P	CLUTCH CABLE	014-962C	1	
Q	WHEEL BOLT	N/A	2	3/8"x16x2"
R	SPRING	173-7599-DWG	1	.085x1"(OD)x7" SPRING
S	WHEELS	156-ACPLY-5J3	2	
T	KEY	199-NHNT-SE-UND	1	1/4" SQUARE KEY
U	CLUTCHING IDLER	011-762I	1	



SLIDE PULLEY
IN ALIGNED
WITH THE
KEYWAY

INSTALL PULLEY
WITH RAISED
SIDE IN

9-5-98
BUFFER 27"
EXPLODED VIEW OF ASSEMBLY
FOR 27" BUFFER



Notes

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