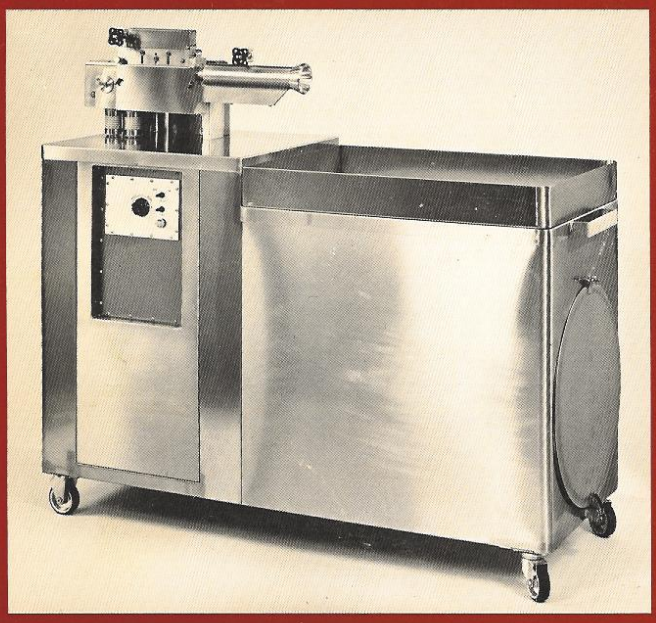
RANGER APOLLO PARTS CATALOG



RANGER APOLLO PEELER

Exercising the care and daily maintenance procedures shown on the following pages, along with a conscientious preventive maintenance program, should provide years of trouble free operation with a minimum of maintenance requirements.

Inquiries regarding the Apollo Peeler should be addressed to:

Ranger Tool Company
5786 Ferguson Road
Bartlett, TN 38134
Phone 901/386-4514

or

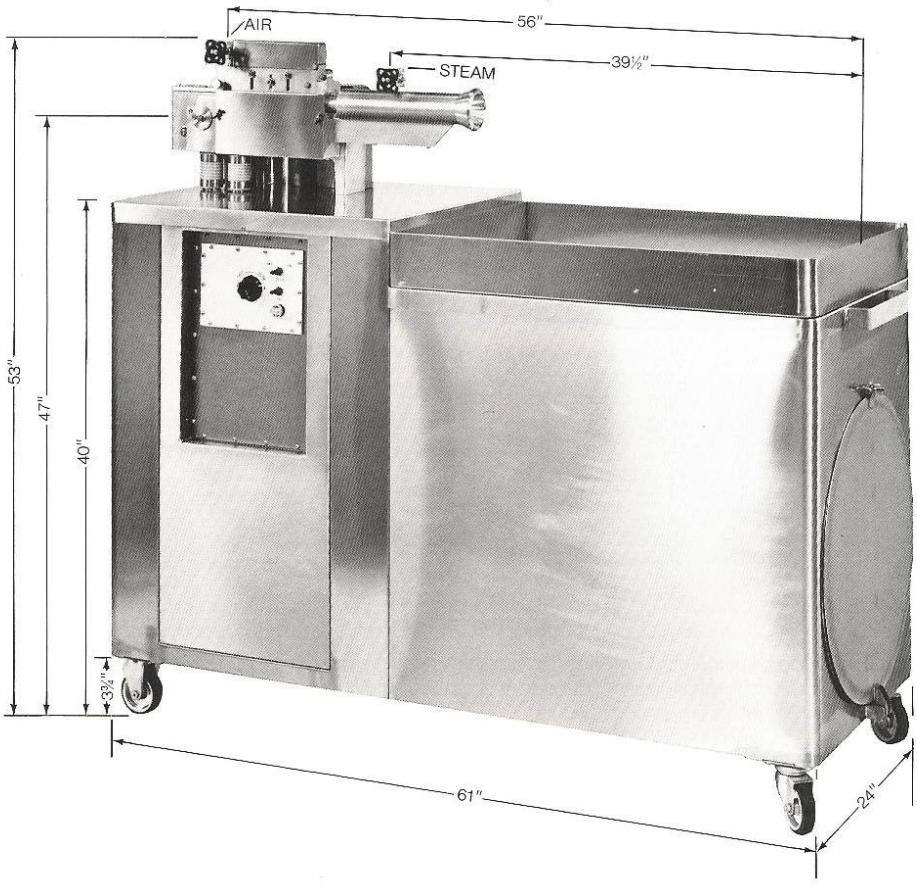
Townsend Engineering Company
2435 Hubbell Avenue
Des Moines, Iowa 50305
Phone: 515/265-8181

Paraffin Oil - Intake hose
- Mineral Oil - ~~Gear Box~~ Machine Parts
- SAE 30 - Non ~~Detergent~~ Oil - Gear Box

RANGER APOLLO PEELER

Serial Number_____
Air Pressure 100 psi, 8CFM

Power Supply_____
Horsepower 3½



Note: Use Serial Number when ordering parts

SET UP PROCEDURE

Adjusting Knife Blade

1. Adjust the knife blade to protrude .003 to .004 beyond knife holder tip.
2. If the blade slits the wiener, the blade adjustment is too long.
3. If the blade does not slit the casing the full length of wiener, the adjustment could be too short.

Adjusting The Knife Holder Spring

The purpose of the knife holder spring is to keep the knife tip on the product.

1. The spring tension should be such as to slit the casing the full length of the wiener.
2. If the casing has skips where the full length has not been slit, increase the spring tension one or two beads of chain at a time until corrected.
3. If tension on spring is too tight, it will be difficult to start product peeling.

Adjusting The Pressure Rollers

1. Raise slitter bracket assembly.
2. Place a short strand of wieners in guide tube.
3. Lower slitter bracket in place and lock hand nut.
4. Loosen pressure roller locking screws.
5. Adjust pressure rollers for a firm contact (not tight) and tighten locking screws.

Steam Adjustment

1. Open needle valve and allow condensation to drain from steam chamber.
2. Adjust steam for most efficient operation.

Adjust Air Nozzle

The air supply should be from 70 to 100 psi.
The air valve at the air nozzle should be adjusted to only enough discharge to give a positive peeling efficiency at any given rate per hour. This is not necessarily wide open.

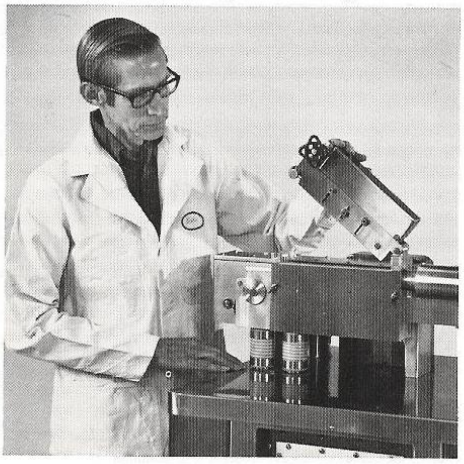
Peel Short Test Strand

After the above adjustments have been completed, turn on the drive and vacuum motor switches, feed a short 3 ft. strand of product into steam chamber, and check results.

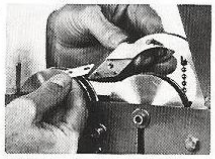
CARE AND MAINTENANCE OF PEELER

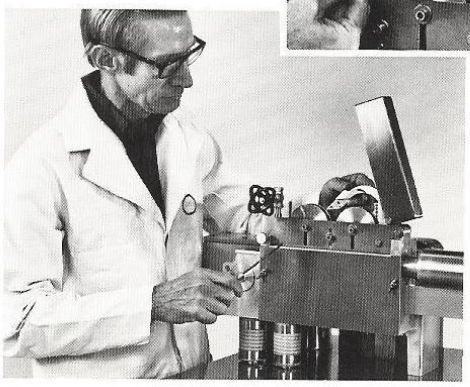
AT BEGINNING OF EACH WORK DAY

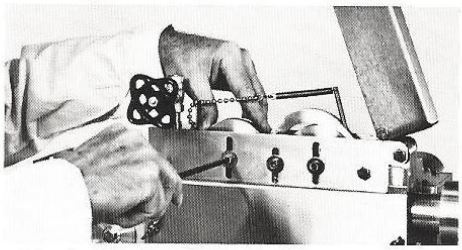
- Check machine completely to see that all parts are clean and in good working order



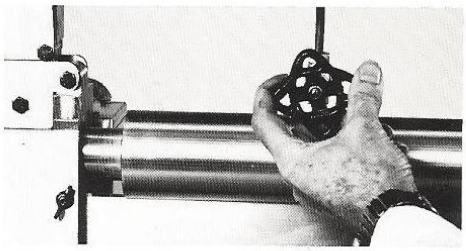
- Insert a new knife blade at the beginning of each work day. Adjust new knife blade to proper operating depth





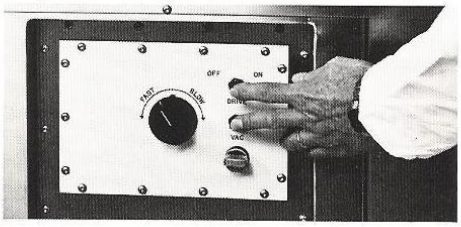


- Check and adjust Pressure Rollers

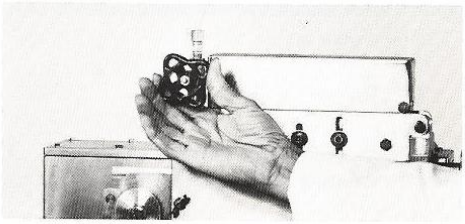


- Turn on steam to allow all condensation to be flushed from system

- Turn on Power

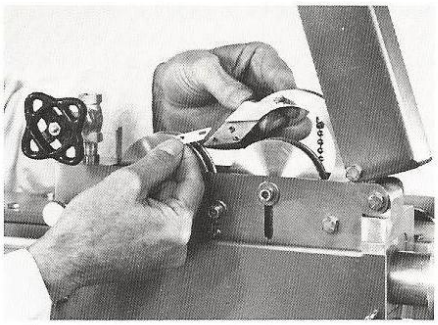


- Adjust steam and variable speed control to peelability of product

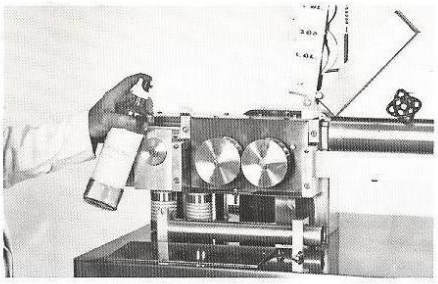


AT THE END OF EACH WORK DAY

Turn off all utilities to Peeler

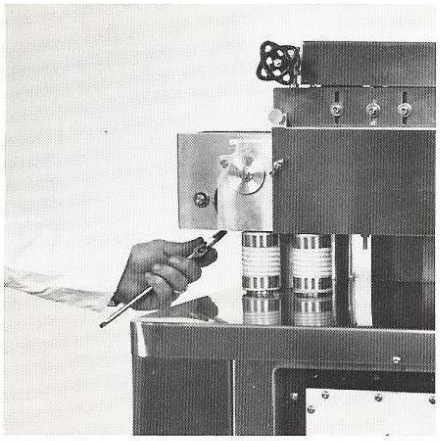


• Remove blade from knife holder

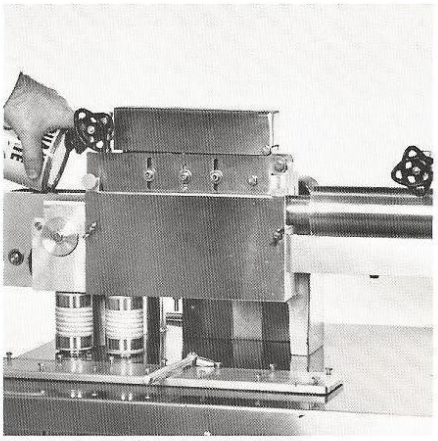


• Wash machine thoroughly with hot water and spray all parts with mineral oil

NOTE: Thorough cleaning and oiling will extend the life of your Peeler. It should *not* be necessary to wash inside the motor compartment of the cabinet. If required, exercise extreme caution.



• Draining gear box

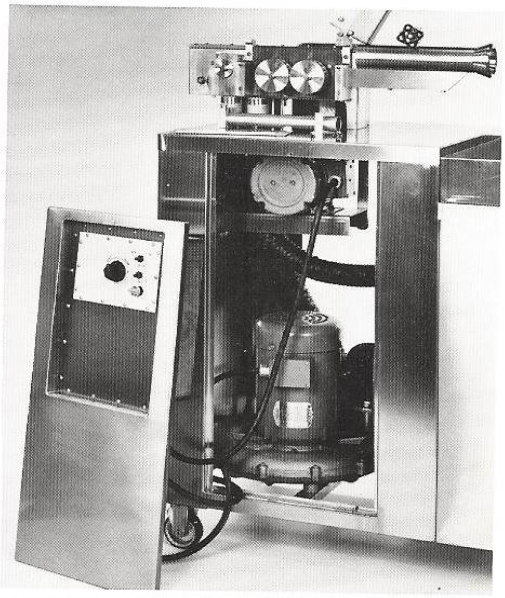


• Refilling gear box

The Power Train in the gear box is of all-hardened materials which is oil bathed for long life. Every four months the gear box should be drained and refilled with 2½ quarts of SAE 30 non-detergent oil.

VACUUM UNIT

• Removing intake hose and spraying paraffin oil

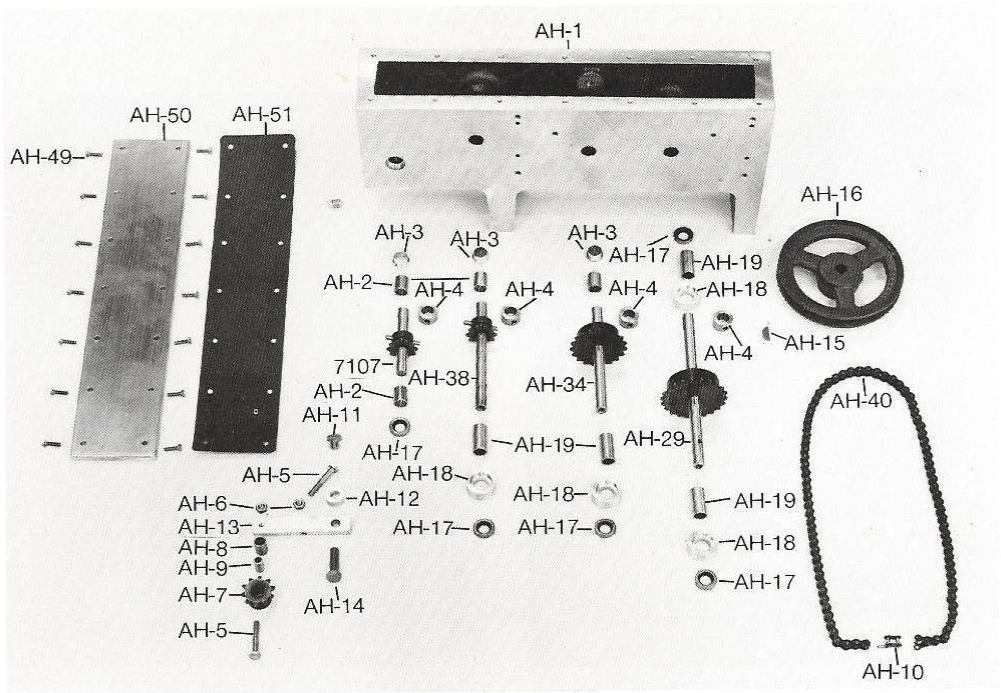


• Easy access to vacuum unit

• Twice per week, remove the upper end of intake hose (item 9). With motor running, direct steam into vacuum hose (item 9). This should eliminate the fat build up inside item 9, as well as flush the internal part of the vacuum chamber.

• After the unit has been flushed with steam, turn off the vacuum motor and allow the motor R.P.M. to drop by 70%. Spray a *small* amount of paraffin oil into vacuum chamber. Do not restart unit until the following work day. This allows the oil to provide a coating for internal parts.

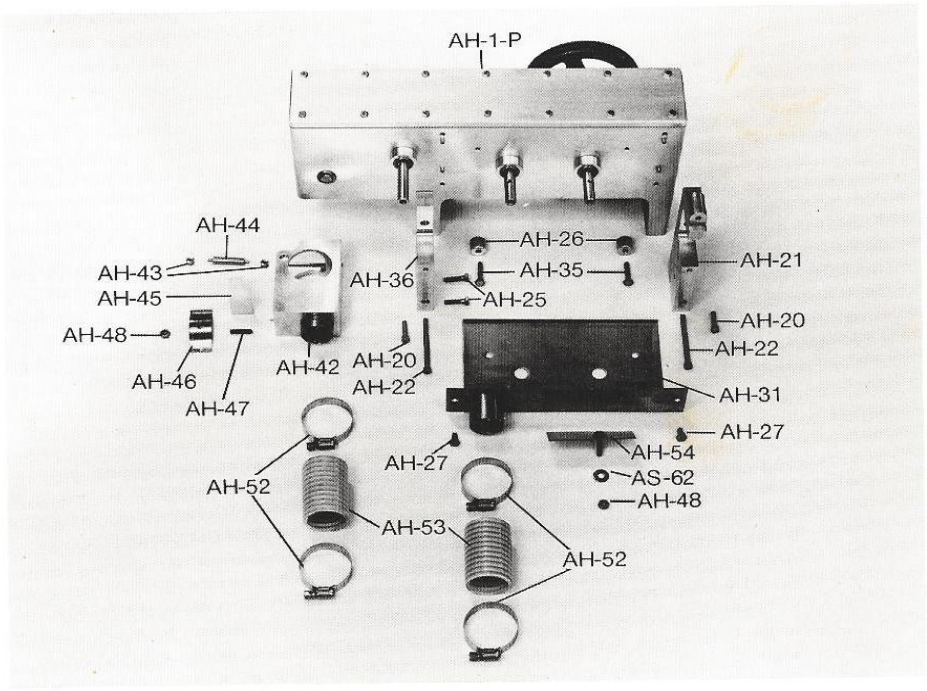
WARNING—It will be better to use not enough oil, rather than too much.



APOLLO HEAD ASSEMBLY

PART NO.	REQ'D.	DESCRIPTION
AH-1	1	Gear Box (Exchange Only)
AH-2	4	Bearing
AH-3	3	Oil Plug
AH-4	4	Set Collar
AH-5	2	Bolt
AH-6	2	Nut
AH-7	1	Sprocket w/Bearing
AH-8	1	Bearing
AH-9	1	Idler Sprocket Bushing
AH-10	1	#35 Master Link
AH-11	1	Bolt
AH-12	1	Spacer
AH-13	1	Idler Bracket
AH-14	1	Bolt
AH-15	1	Key

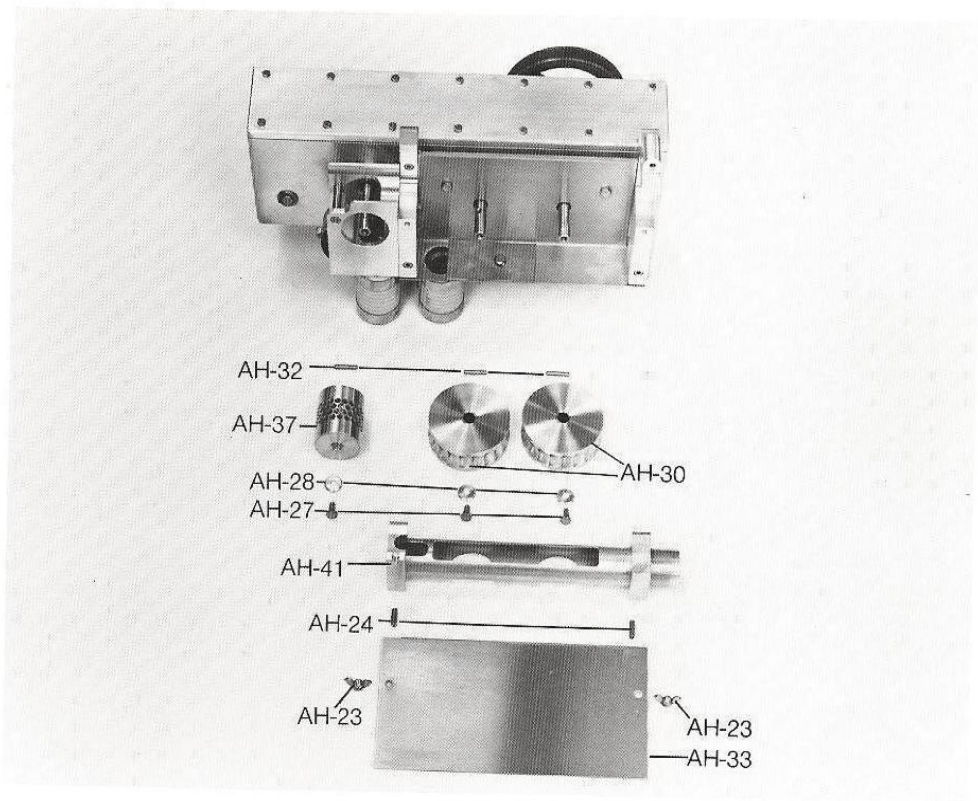
PART NO.	REQ'D.	DESCRIPTION
AH-16	1	Pulley
AH-17	5	Oil Seal
AH-18	4	Oil Seal Housing
AH-19	4	Bearing
AH-29	1	#1 Feed Roller Shaft Assembly
AH-34	1	#2 Feed Roller Shaft Assembly
AH-38	1	Vacuum Roller Shaft Assembly
AH-40	1	#35 Conveyor Chain
AH-49	14	Bolt
AH-50	1	Cover (Gear Box)
AH-51	1	(Gasket Gear Box)
7107	1	Idler Shaft Assembly



APOLLO HEAD ASSEMBLY

PART NO.	REQ'D.	DESCRIPTION
AH-1-P	1	Partial Head
AH-20	2	Socket Head Screw
AH-21	1	Bracket
AH-22	2	Socket Head Bolt
AH-25	2	Bolt
AH-26	2	Spacer
AH-27	3	Bolt
AH-31	1	Back Steam Cover
AH-35	2	Bolt
AH-36	1	Bracket
AH-42	1	Vacuum Housing

PART NO.	REQ'D.	DESCRIPTION
AH-43	2	Vacuum Housing Bushing
AH-44	1	Vacuum Housing Spindle
AH-45	1	Pressure Shoe
AH-46	1	Spring (Pressure Shoe)
AH-47	1	Threaded Stud
AH-48	2	Lock Nut
AH-52	4	Hose Clamp
AH-53	2	Vinyl Hose
AH-54	1	Adj. Valve
AS-62	1	Washer

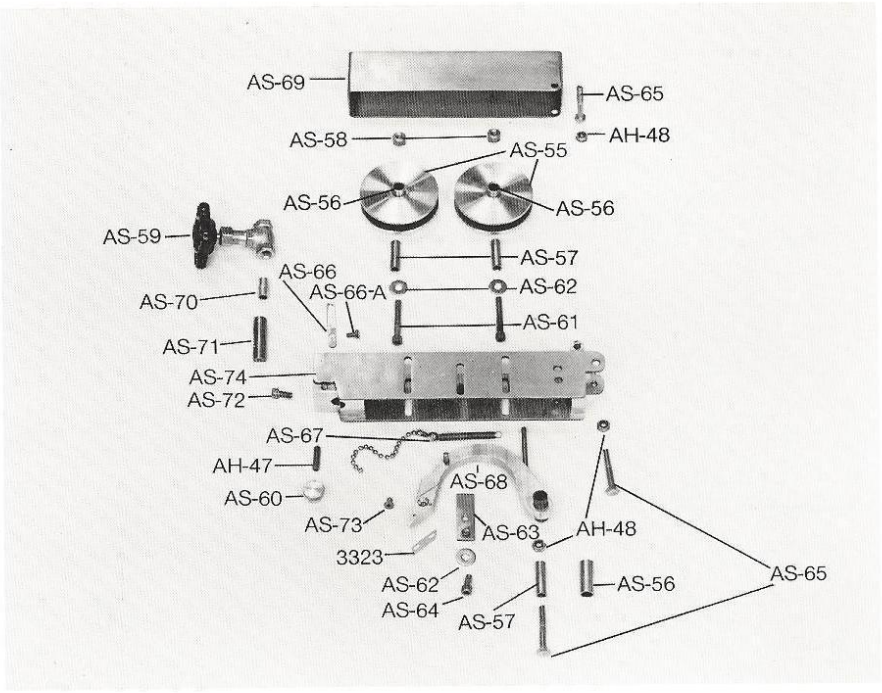


APOLLO HEAD ASSEMBLY

PART NO.	REQ'D.	DESCRIPTION
AH-23	2	Wing Nut
AH-24	2	Threaded Stud
AH-27	3	Bolt
AH-28	3	Washer
AH-30	2	Feed Wheels

PART NO.	REQ'D.	DESCRIPTION
AH-32	3	Drive Pin
AH-33	1	Front Steam Cover
AH-37	1	Vacuum Wheel
AH-41	1	Guide Tube and Combustion Chamber (Specify Std. or Large)

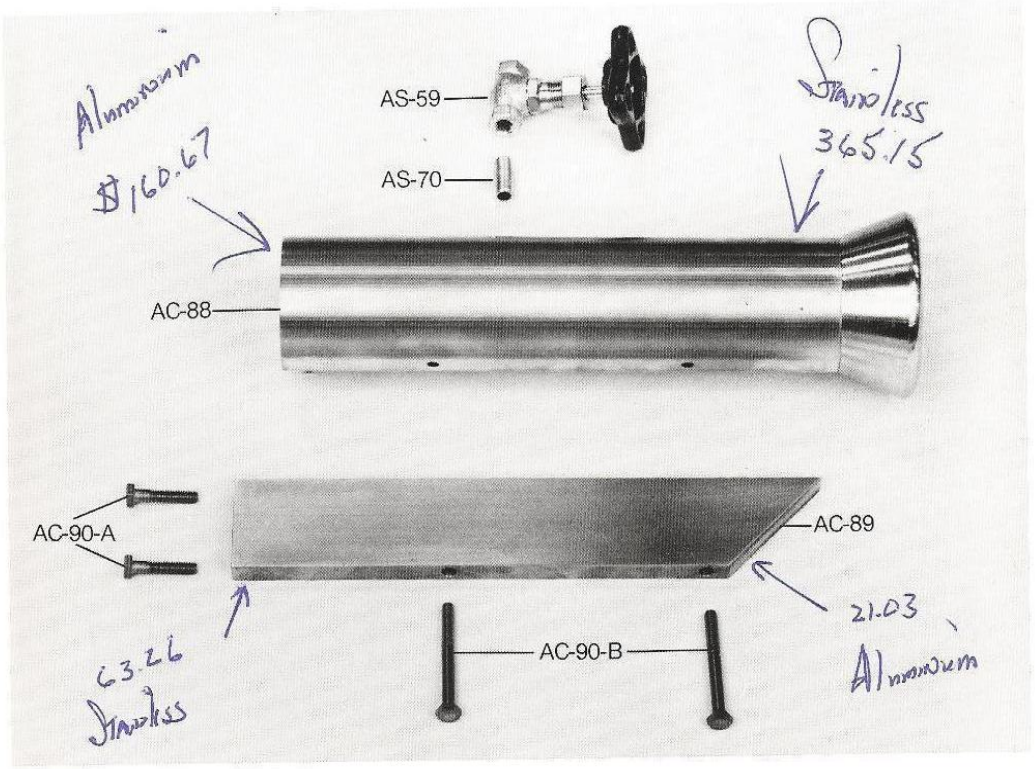
1/4 20 x 1 1/2



AS-740 SLITTER BRACKET ASSEMBLY

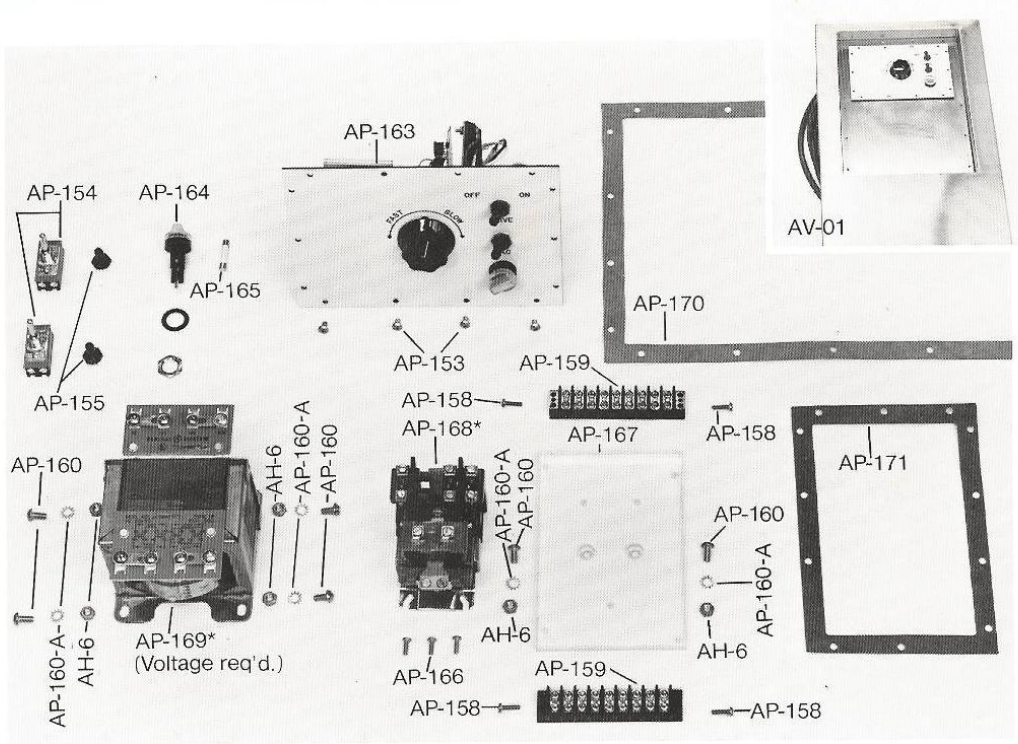
PART NO.	REQ'D.	DESCRIPTION
AH-47	1	Threaded Stud
AH-48	3	Lock Nut
AS-55	2	Pressure Roller
AS-56	3	Bearing, Pressure Roller
AS-57	3	Bushing, Pressure Roller
AS-58	2	Nut
AS-59	1	Needle Valve
AS-60	1	Hand Nut
AS-61	2	Socket Head Bolt
AS-62	3	Washer
AS-63	1	Knife Stop
AS-64	1	Bolt, Knife Holder Stop

PART NO.	REQ'D.	DESCRIPTION
AS-65	3	Hex Head Bolt
AS-66	1	Bracket (Chain)
AS-66-A	1	Bolt
AS-67	1	Spring & Chain
AS-68	1	Knife Holder
AS-69	1	Steam Cover
AS-70	1	Close Nipple
AS-71	1	Air Nozzle
AS-72	1	Socket Head Screw
AS-73	1	Flat Head Screw
AS-74	1	Slitter Bracket
3323	100 Pkg.	Knife



CONDITIONER UNIT

PART NO.	REQ'D.	DESCRIPTION
AC-88	1	Conditioner Tube (Specify Std. or Large)
AC-89	1	Bracket
AC-90-A	2	Bolt
AC-90-B	2	Bolts
AS-59	1	Needle Valve
AS-70	1	Close Nipple



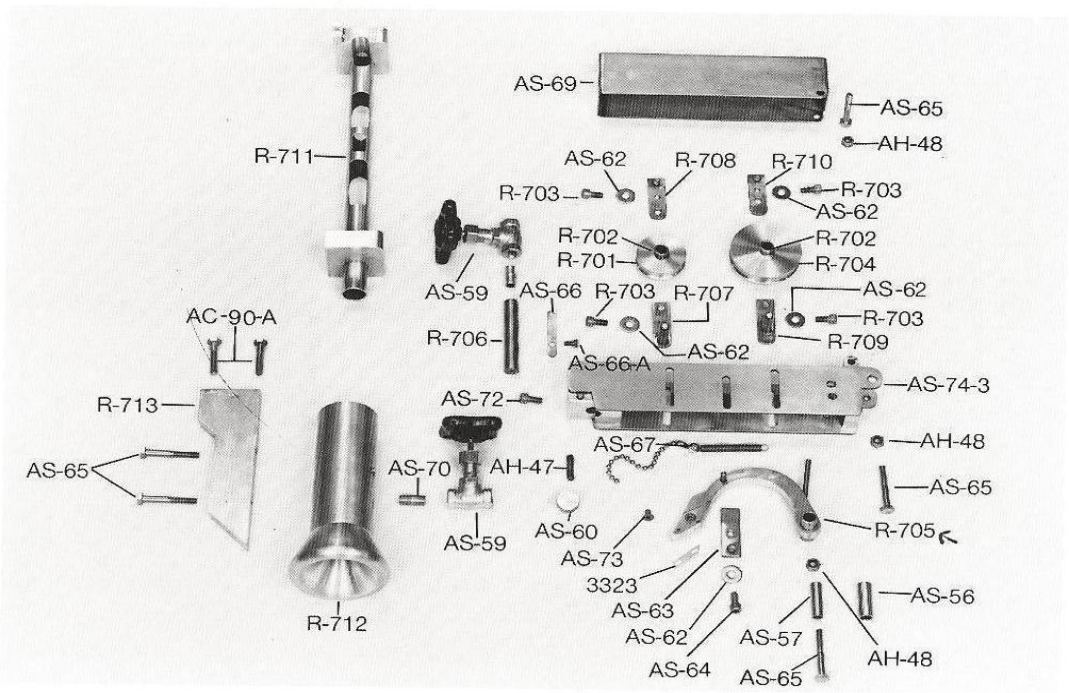
POWER UNIT
(3 H.P., 3 Phase)

PART NO.	REQ'D.	DESCRIPTION
AH-6	6	Nut
AP-153	32	Screw
AP-154	2	Electric Switch
AP-155	2	Boot
AP-158	4	Screw
AP-159	2	Terminal Strip
AP-160	6	Screw
AP-160-A	6	Star Washer
AP-163	1	Control Panel

PART NO.	REQ'D.	DESCRIPTION
AP-164	1	Fuse Holder
AP-165	1	Fuse
AP-166	3	Screw
AP-167	1	Bracket
AP-168*	1	Relay
AP-169*	1	Transformer
AP-170	1	Door Well Gasket
AP-171	1	Control Panel Gasket
AV-01	1	Complete Door Well Unit

4314

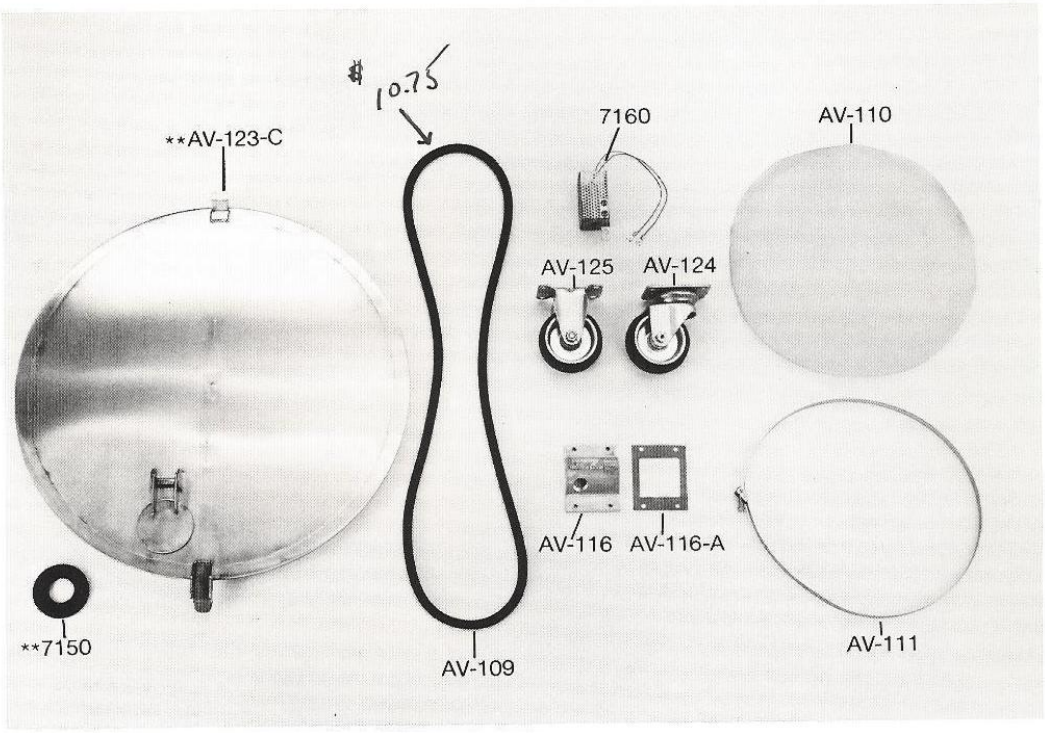
When ordering these parts, please list supply voltage to Peeler



TYPE R700 COCKTAIL KIT

PART NO.	REQ'D.	DESCRIPTION
AH-47	1	Threaded Stud
AH-48	3	Lock Nut
AS-56	1	Bearing
AS-57	1	Bushing, Knife Holder
AS-59	1	Needle Valve
AS-60	1	Hand Nut
AS-62	5	Washers
AS-63	1	Knife Stop
AS-64	1	Bolt, Knife holder stop
AS-65	5	Hex Head Bolt
AS-66	1	Bracket (Chain)
AS-66-A	1	Bolt
AS-67	1	Spring and Chain
AS-69	1	Steam Cover
AS-70	1	Close Nipple
AS-72	1	Socket Head Screw

PART NO.	REQ'D.	DESCRIPTION
AS-73	1	Flat Head Screw
AS-74-3	1	Slitter Bracket
R-701	1	#2 Pressure Roller
R-702	2	Bearings, Pressure Roller
R-703	4	Socket Head Screw
R-704	1	#1 Pressure Roller
R-705	1	Knife Holder
R-706	1	Air Nozzle
R-707	1	Spindle, #2 Pressure Roller
R-708	1	Bracket, #2 Pressure Roller
R-709	1	Spindle, #1 Pressure Roller
R-710	1	Bracket, #1 Pressure Roller
R-711	1	Guide tube & Combustion Chamber
R-712	1	Conditioner Tube
R-713	1	Bracket, Conditioner Tube
3323	100 pkg.	Knife

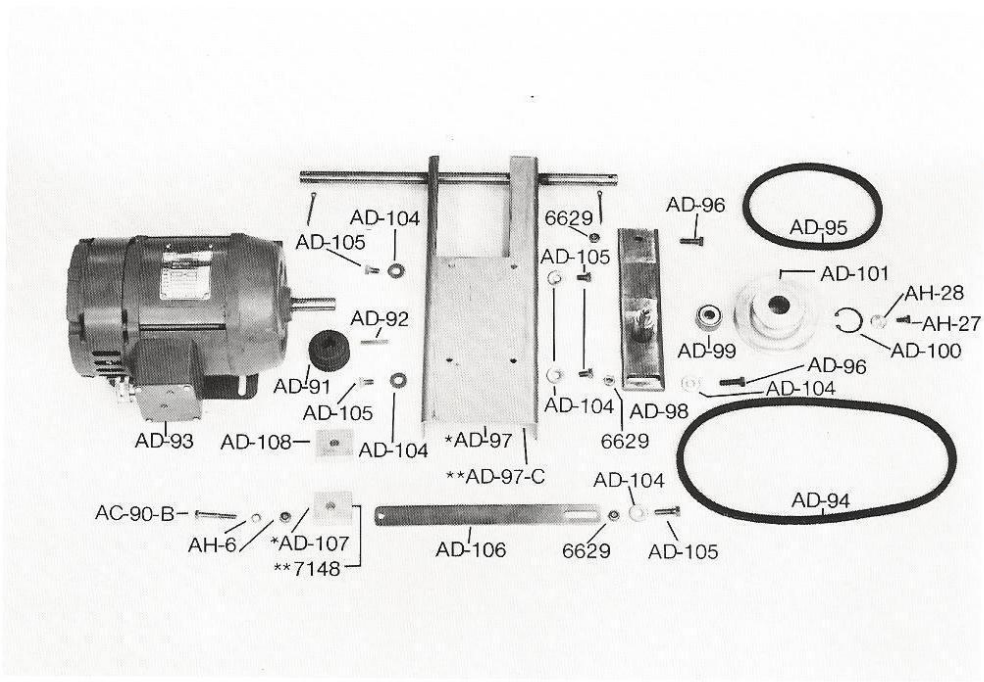


MISCELLANEOUS PARTS

PART NO.	REQ'D.	DESCRIPTION
AV-109	1	Vacuum Door Gasket
AV-110	1	Screen
AV-111	1	Screen Band
AV-116	1	Cable Entrance Adapter
AV-116-A	1	Cable Entrance Adapter Gasket

PART NO.	REQ'D.	DESCRIPTION
*AV-123	1	Vacuum Door
**AV-123-C (Callisto Shown)	1	Vacuum Door
AV-124	2	Swivel Casters
AV-125	2	Fixed Casters
**7150	1	Water Release Gasket
7160 (Optional)	1	Door Well Heater

*Apollo Only
**Callisto Only

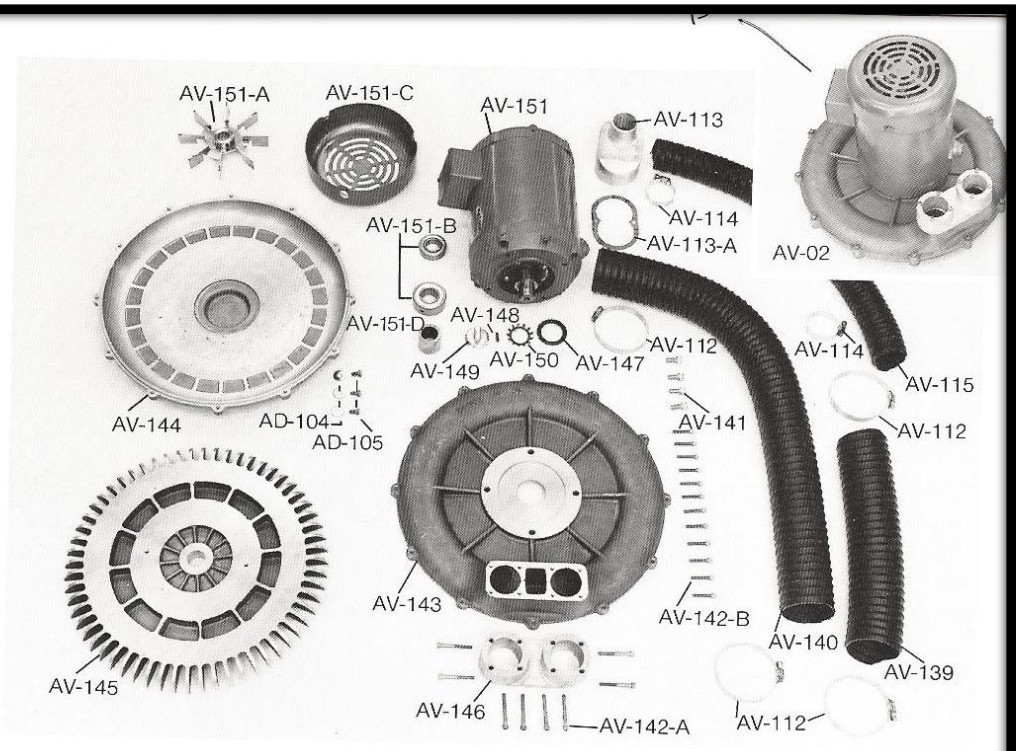


MOTOR DRIVE ASSEMBLY

PART NO.	REQ'D.	DESCRIPTION
AC-90-B	1	Bolt
AD-91	1	Drive Pulley
AD-92	1	Key
AD-93	1	Motor
AD-94	1	V Belt (Drive)
AD-95	1	V Belt (Jack Shaft)
AD-96	2	Bolt
*AD-97	1	Motor Base
**AD-97-C	1	Motor Base
AD-98	1	Jack Shaft Bracket
AD-99	1	Bearing

PART NO.	REQ'D.	DESCRIPTION
AD-100	1	Retainer Ring
AD-101	1	Multi-Groove Pulley
AD-104	6	Washer
AD-105	5	Bolt
AD-106	1	Adj. Strap
*AD-107	1	Head Retainer Block
AD-108	1	Head Retainer Block
AH-6	1	Nut with Lock Washer
AH-27	1	Washer
AH-28	2	Bolt
6629	3	Lock Nut
**7148	1	Head Retainer Block

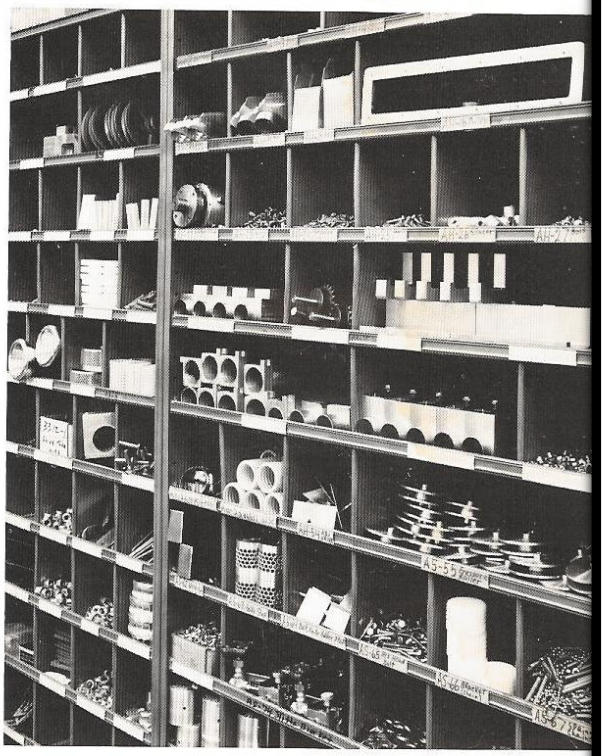
*Apollo Only
**Callisto Only



VACUUM UNIT ASSEMBLY
(3 H.P., 3 Phase)

PART NO.	REQ'D.	DESCRIPTION
AD-104	3	Washer
AD-105	3	Bolt
AV-02	1	Vacuum Unit
AV-112	4	Hose Clamp
AV-113	1	Vacuum Junction Housing
AV-113-A	1	Gasket
AV-114	2	Hose Clamp
AV-115	1	Vacuum Hose
AV-139	1	Intake Vac. Hose
AV-140	1	Exhaust Vac. Hose
AV-141	4	Bolt
AV-142-A	8	Bolt
AV-142-B	12	Bolt

PART NO.	REQ'D.	DESCRIPTION
AV-143	1	Upper Housing
AV-144	1	Lower Housing
AV-145	1	Rotor
AV-146	1	Adapter Housing
AV-147	1	Oil Seal
AV-148	1	Key
AV-149	1	Nut
AV-150	1	Lock Washer
AV-151	1	Vacuum Motor (Voltage required)
AV-151-A	1	Fan (Motor)
AV-151-B	1 (Set)	Bearing
AV-151-C	1	Cover (motor)
AV-151-D	1	Bushing



Ranger maintains a good parts inventory and can speedily process your Apollo parts needs.

Production delays are always expensive and downtime is lost time forever.

Previous experience has dictated that the following spare parts should be on hand at your plant to maintain minimum downtime.

RECOMMENDED SPARE PARTS KIT

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
AD-94	1	V-Belt Drive	AS-55	2	Pressure Rollers
AD-95	1	V-Belt Jack Shaft	AS-67	1	Spring & Chain
AH-17	2	Oil Seal	AS-68	1	Knife Holder
AH-37	1	Vacuum Wheel	AS-73	1	Flat Head Screw
AH-45	1	Pressure Shoe	AV-109	1	Vacuum Door Gasket
			3323	100 Pkg.	Knife

ELECTRICAL SPARE PARTS

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
AP-154	2	Electrical Switches	AP-163	1	Control Panel
AP-155	2	Boots	AP-165	1 Box	Fuse

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Processing Parts & Equipment inc.
117 Lenape Road Cherry Hill N.J. 08109
PHONE #856 663 0453
FAX #856 488 1255