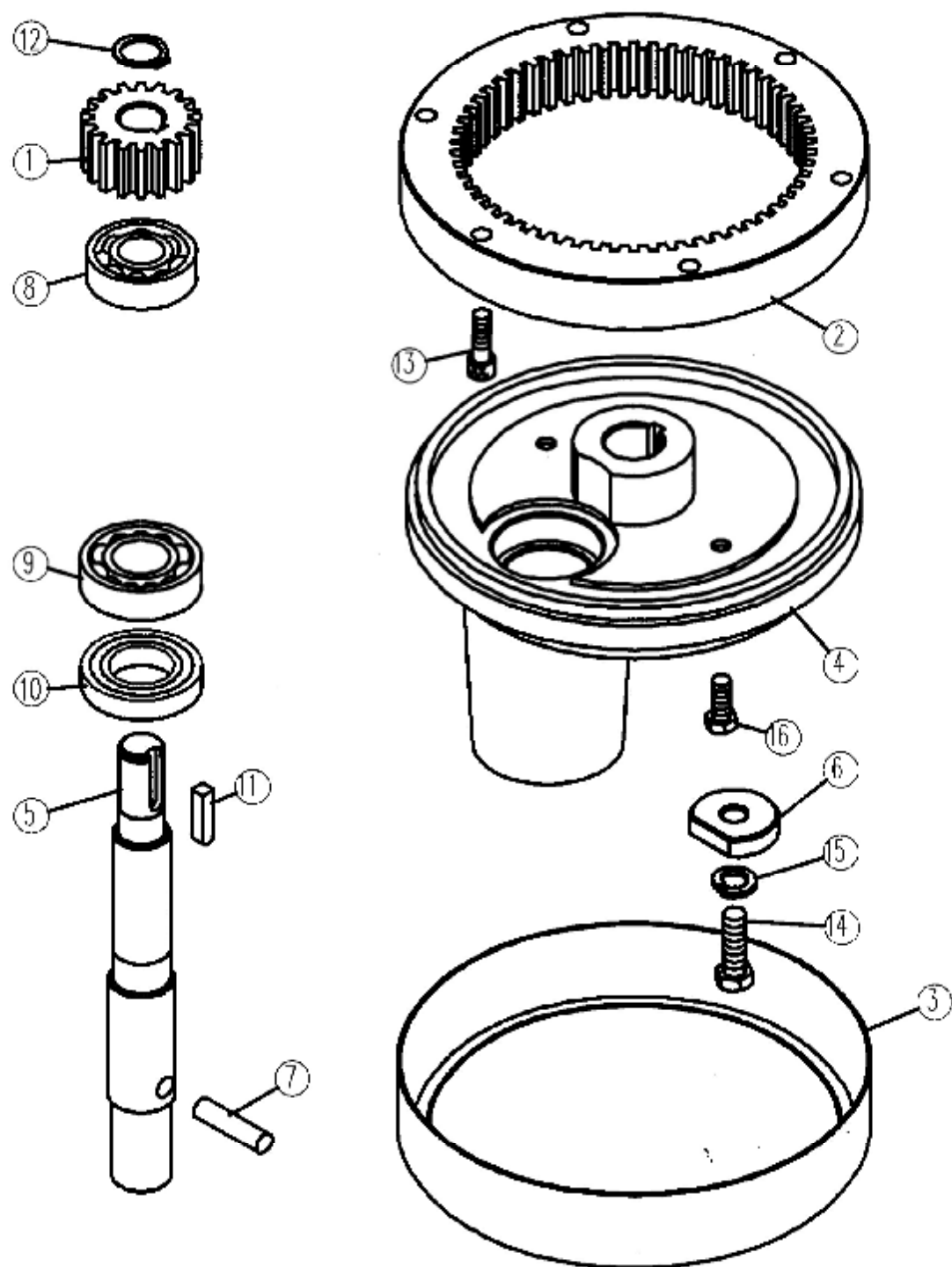


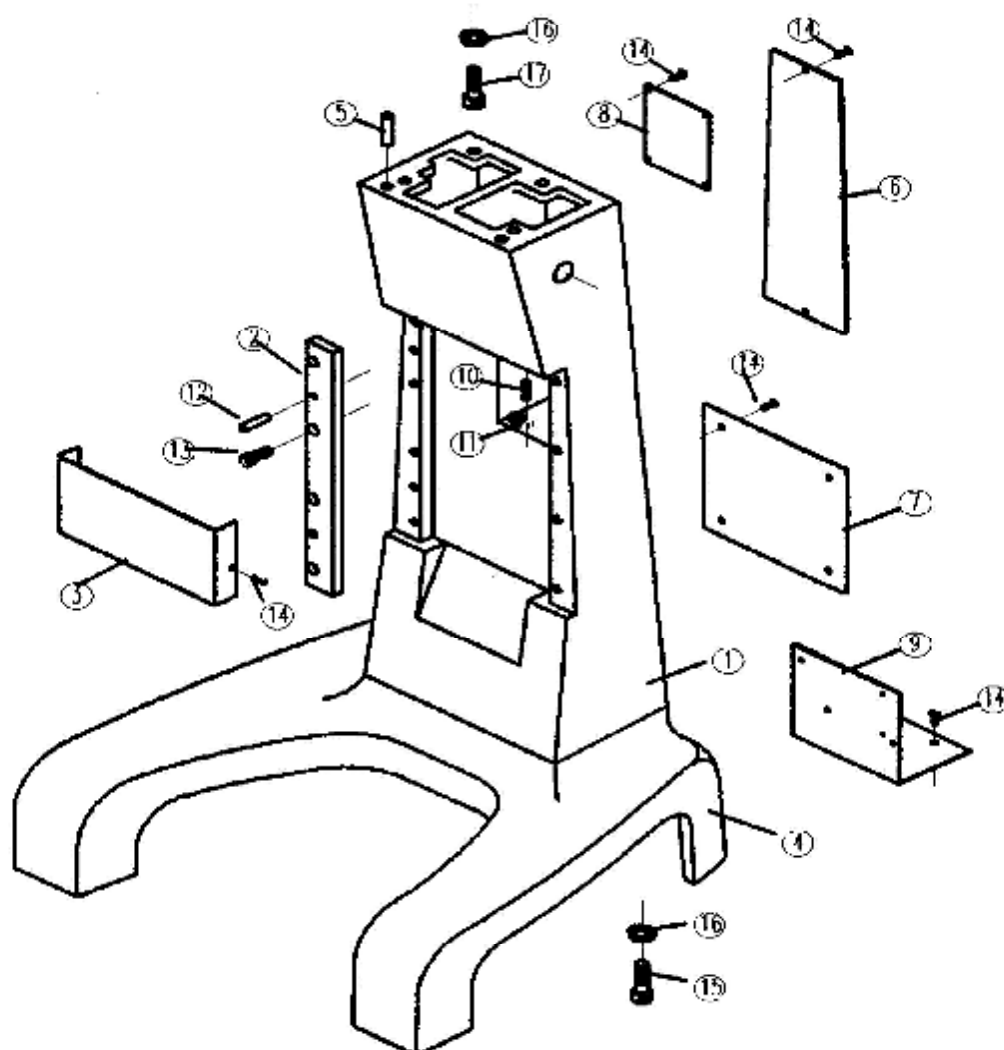
Figure 8. 11030-08 PLANETARY HEAD



PARTS LIST of 11030-08 PLANETARY HEAD

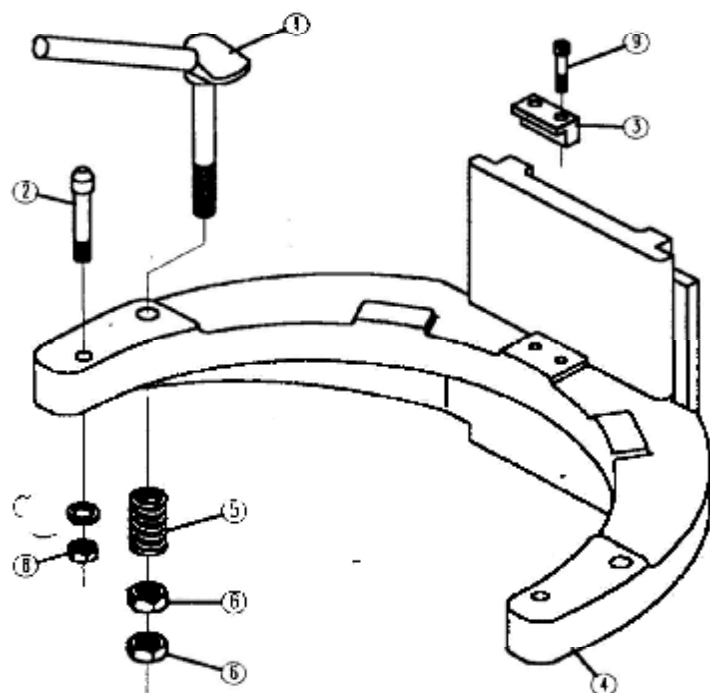
	Description or Name	Parts No.	Qty	Remark
1	Internal Pinion (18 T)	11031-08-001	1	
2	Internal Drive Gear (59T)	11031-08-002	1	
3	Head Ring	11031-08-003	1	
4	Planetary Head	11031-08-004	1	
5	Agitating Shaft	11031-08-005	1	
6	Spacer	11031-08-006	1	
7	Tapered Pin	11031-08-007	1	
8	Ball Bearing #6204Z	BR-6204Z	1	
9	Ball Bearing #6205Z	BR-6205Z	1	
10	Oil Seal TC28*52*10	OS-TC28*52*10	1	
11	Key 1/4"*1/4"*25L	KR-1/4*1/4*25	1	
12	C-type Snap Ring S19	CR-S19	1	
13	Cap Screw W5/16"*1"L	S-C-5/16*1	6	
14	Bolt W3/8"*1"L	S-3/8*1	1	
15	Spring Washer Ø3/8"	SW-3/8	1	
16	Bolt W1/2"*3/4"L	S-1/2*3/4	2	

Figure 9. BASE AND PEDESTAL



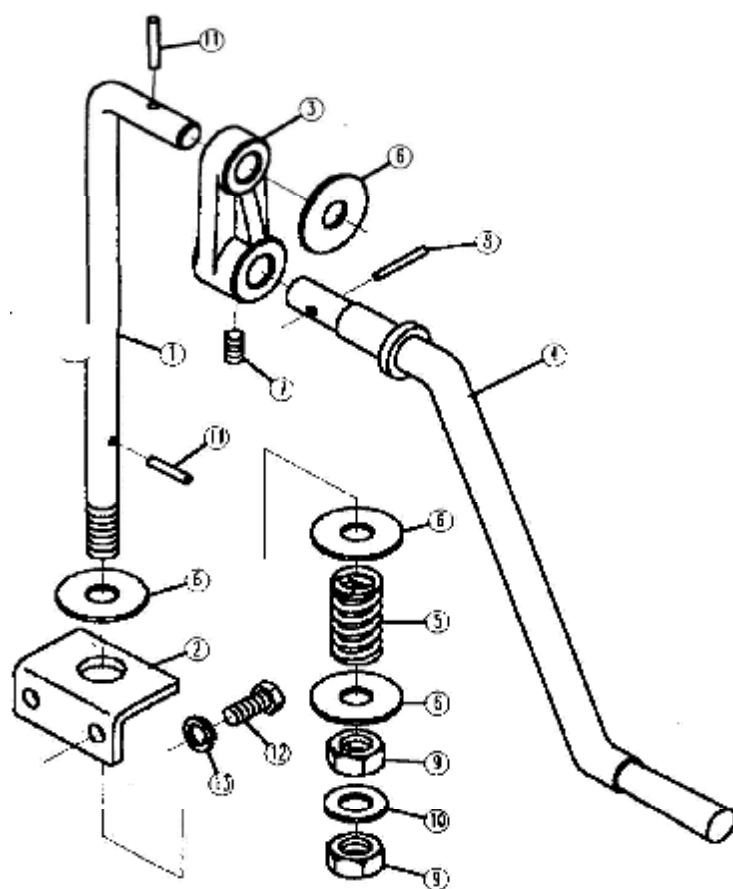
	Description or Name	HL part no.	Qty		Description or Name	HL part no.	Qty
1	Column	11031/09-1B	1	11	Nut W5/16*18NC	11031/09-11	1
2	Slideway	11031/09-02	2	12	Dowel #8*20L	11031/09-12	2
3	Apron	11031/09-03	1	13	Screw W5/16*3/4"L	11031/09-13	8
4	Base	11031/09-4B	1	14	Screw W3/16*1/4"L	11031/09-14	14
5	Dowel #10*24L	11031/09-05	2	15	Screw W3*8**1"L	11031/09-15	4
6	Column Cover A	11031/09-06	1	16	Washer Ø3/8"	11031/09-16	8
7	Column Cover B	11031/09-07	1	17	Screw W3*8**1-1/4"L	11031/09-17	4
8	Column Cover C	11031/09-08	1				
9	Seat of Contactor	11031/09-09	1				
10	Screw W5/16**2"L	11031/09-10	1				

Figure 10. BOWL SUPPORT UNIT



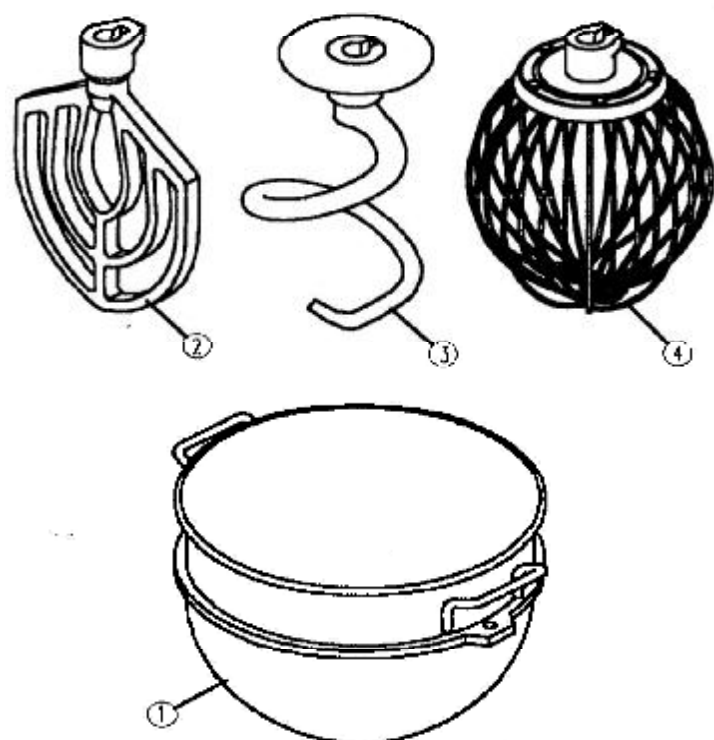
	Description or Name	HL part no.	Qty
1	Bowl Clamp	11031/10-01	2
2	Bowl Locating Pin	11031/10-02	2
3	Bowl Retainer	11031/10-03	1
4	Bowl Support	11031/10-04	1
5	Compression Spring	11031/10-05	2
6	Nut W1/2"*12NC	11031/10-06	4
7	Spring Washer Ø3/8"	11031/10-07	2
8	Nut W3/8"*16NC	11031/10-08	2
9	Screw W1/4"*1"L	11031/10-09	2

Figure 11. BOWL LIFTER UNIT



	Description or Name	HL part no.	Qty
1	Lifting Bar	11031/11-01	1
2	Lifting Handle Bracket	11031/11-02	1
3	Inner Arm	11031/11-03	1
4	Bowl Lift Handle	11031/11-04	1
5	Compression Spring	11031/11-05	1
6	Spacer	11031/11-06	4
7	Set Screw W5/16"*3/8"L	11031/11-07	1
8	Cotter Pin #4*32L	11031/11-08	1
9	Nut W3/8"*16NC	11031/11-09	2
10	Flat Washer Ø1/2"	11031/11-10	1
11	Tapered Pin #4*25L	11031/11-11	2
12	Screw W5/16"*3/8"L	11031/11-12	2
13	Washer Ø5/16"	11031/11-13	2

Figure 12. STANDARD ACCESSORIES

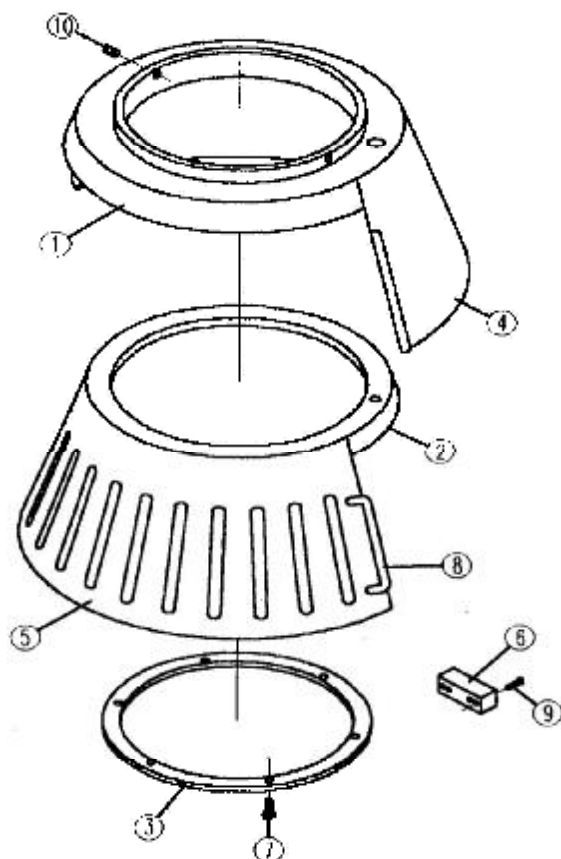


	Description or Name	HL part no.	Qty
1	SS Bowl	11031/12-01	1
2	AL Flat Beater	11031/12-02	1
3	AL Dough Hook	11031/12-03	1
4	AL Wire Whip	11031/12-04	1

NOTES

- Any agitator is easily installed by simply raising it onto the mixing shaft, and then rotating it clockwise until it locks into place. To remove, raise the agitator on the shaft until it clears the lock, and then rotate counter-clockwise and lower.

Figure 13. SAFETY GUARD UNIT



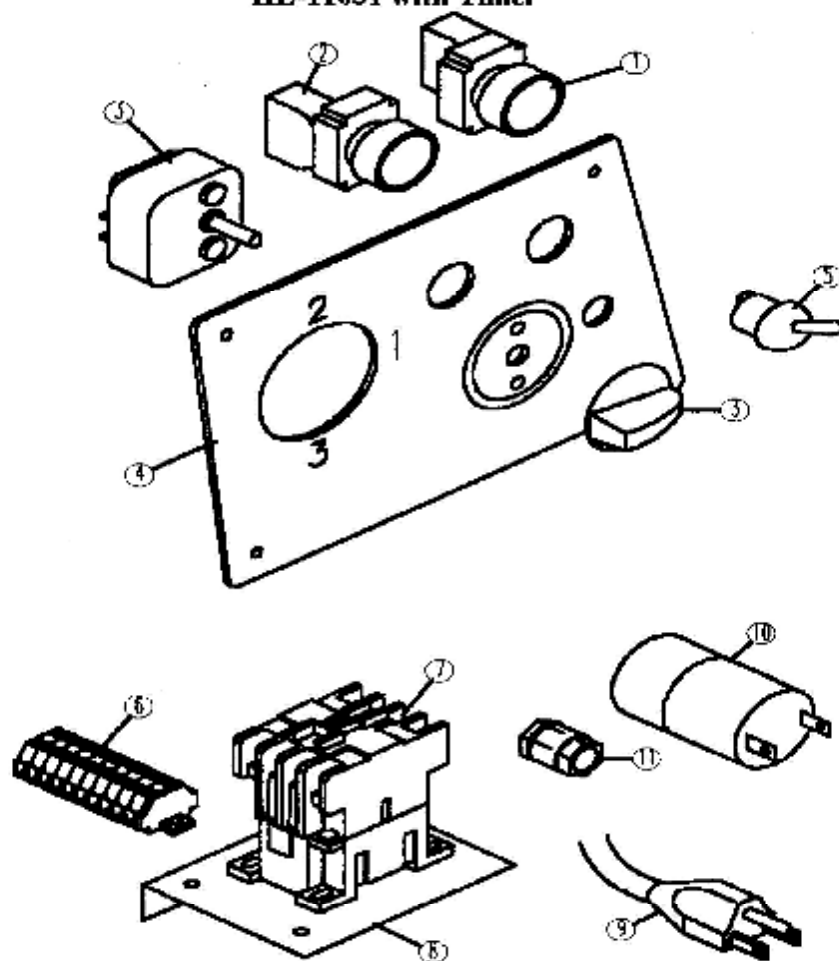
	Description or Name	HL part no.	Qty
1	Head Ring	11031/13-01	1
2	Moving Ring	11031/13-02	1
3	Fixed Ring	11031/13-03	1
4	Fixed Sheet	11031/13-04	1
5	Moving Sheet	11031/13-05	1
6	Seat of Limit Switch	11031/13-06	1
7	Screw W3/16"*1/4"L	11031/13-07	6
8	Handle	11031/13-08	1
9	Screw W3/16"*1/2"L	11031/13-09	2
10	Set Screw W5/16"*1/4"L	11031/13-10	2

NOTES

- Take off the head ring (1) once a month and wipe it clean.

Figure 14 Electrical Parts

HL-11031 with Timer



	Description or Name	HL Part No.	Qty
1	Button Switch	11031/E-01	1
2	Button Switch	11031/E-02	1
3	Timer	11031/E-03	1
4	Control Panel	11031/E-04	1
5	On-Off Switch	11031/E-05	1
6	Terminal Block	11031/E-06	1
7	Contactor	11031/E-07	1
8	Seat of Contactor	11031/E-08	1
9	Plug & Cable	11031/E-09	1
10	Capacitor	11031/E-10	1
11	Collar	11031/E-11	1

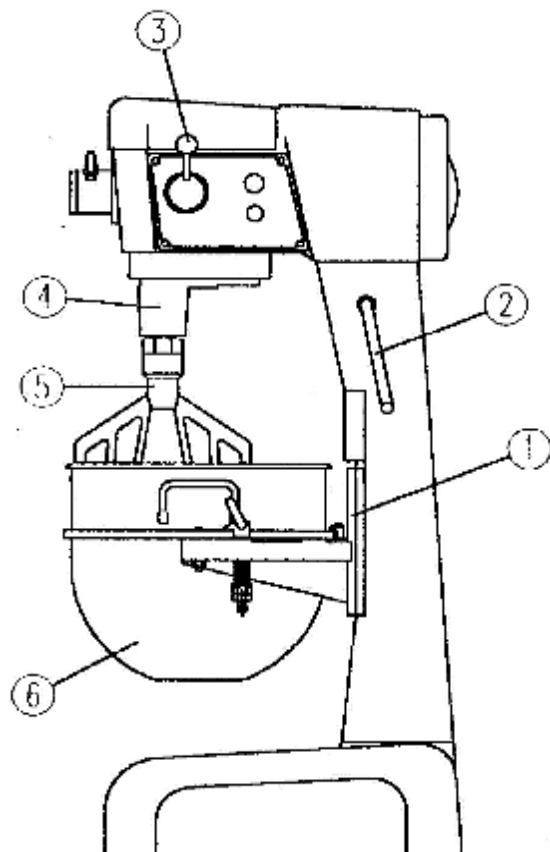
NOTES

- Before making electrical connections check the specifications on the name plate to make sure they agree with those of your electrical service.
- Electrical connections should be made by qualified workman who will observe all applicable safety codes and the national electrical code.
- Timer is optional accessory.

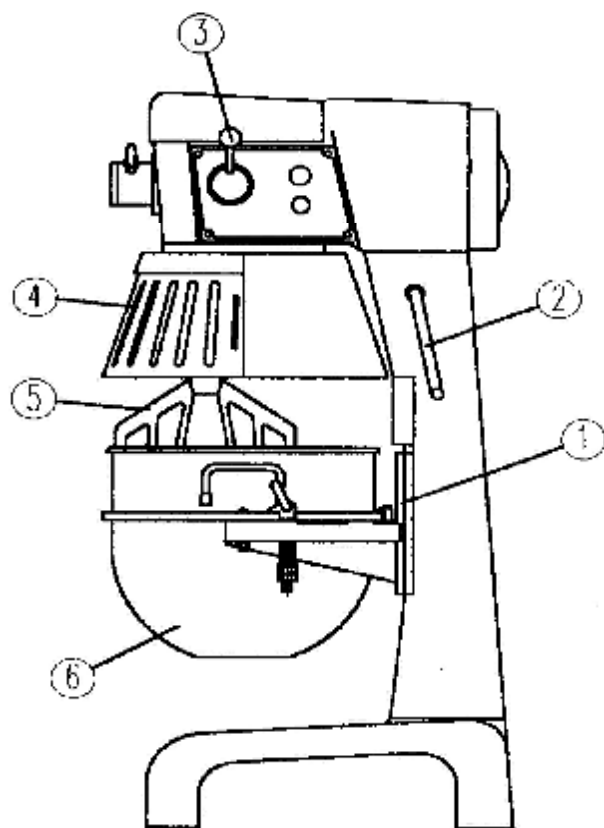
CE-2301X4

PARTS CATALOG

OVERVIEW



HL-11031



HL-11031CE

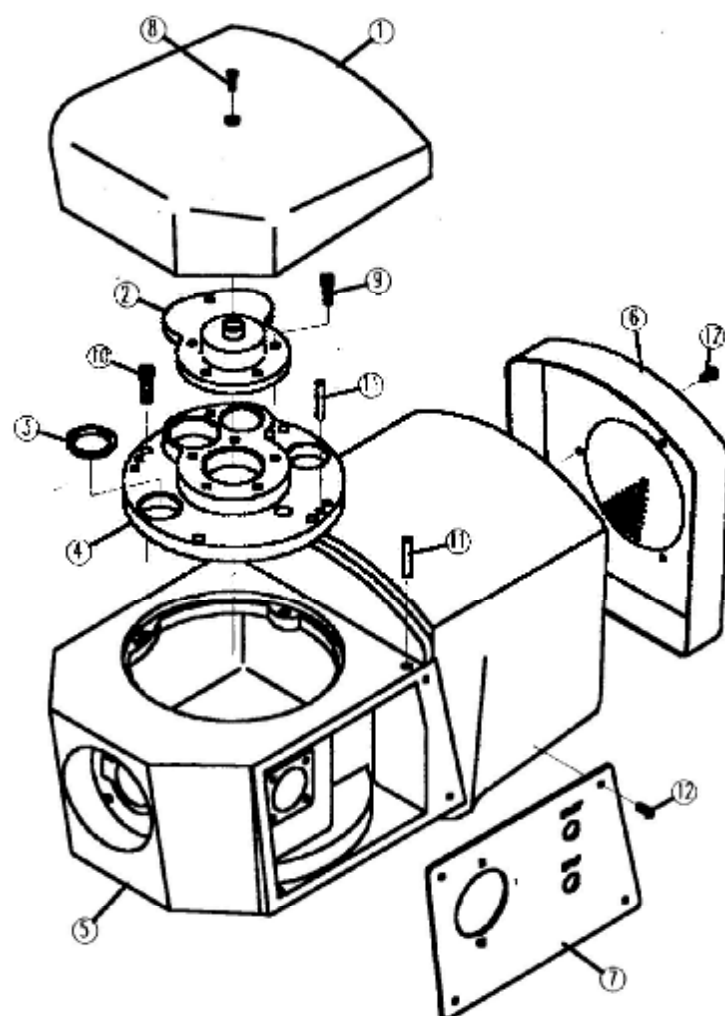
	Description or name
1	Bowl Lift Sliders
2	Bowl Lift Lever
3	Speed Selector
4	Planetary
5	Agitator
6	Bowl

	Description or name
1	Bowl Lift Sliders
2	Bowl Lift Lever
3	Speed Selector
4	Safety Guard
5	Agitator
6	Bowl

NOTES

- The Dynasty® 30 Liter Planetary Mixers are heavy-duty, gear driven machines. The HL-11031CE has a Safety Guard with Limit Switch.
- Disconnect electrical cord from power supply before maintenance.

Figure 1. TRANSMISSION CASE



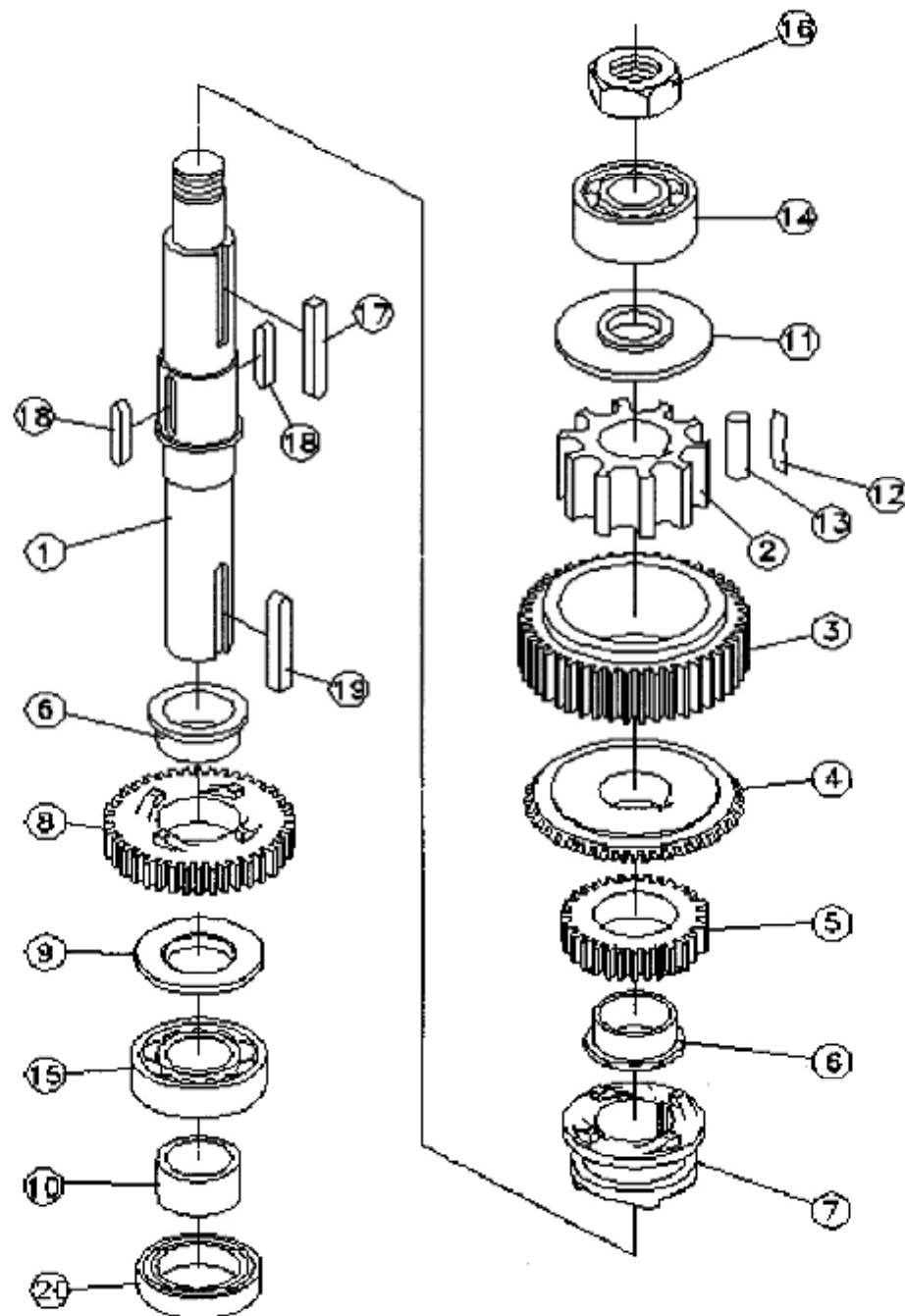
	Description or Name	HL part no.	Qty
1	Upper Lid	11031/01-01	1
2	Planetary Bearing Retainer	11031/01-02	1
3	Cover Plug	11031/01-03	2
4	Gear Housing Cover	11031/01-04	1
5	Transmission Case	11031/01-05	1
6	Rear Cover	11031/01-06	1
7	Control panel	11031/01-07	1
8	Screw W1/4" * L3/8"	11031/01-08	1
9	Screw W1/4" * L3/4"	11031/01-09	6
10	Screw W5/16" * L1"	11031/01-10	4
11	Spring Pin #6*20L	11031/01-11	4
12	Screw W3/16" * L1/4"	11031/01-12	7

NOTES

- Under the transmission case at the front of the mixer head is the gear housing cover. At the center is the planetary bearing retainer. To the above is the transmission and worm gear retainer. The alignment dowels next to the screws that secure the planetary cover.
- The transmission case is filled a special grease that will last for several years. When grease is needed for replacement, it should be ordered from us.
- If you are replacing broken or badly worn parts discard all the lubricant.
- Grease the upper ball bearing then carefully work them into place. The bearings on both shafts must be installed with the open sides down.
- Be sure that Cover Plug (6) is tighten in the hole.

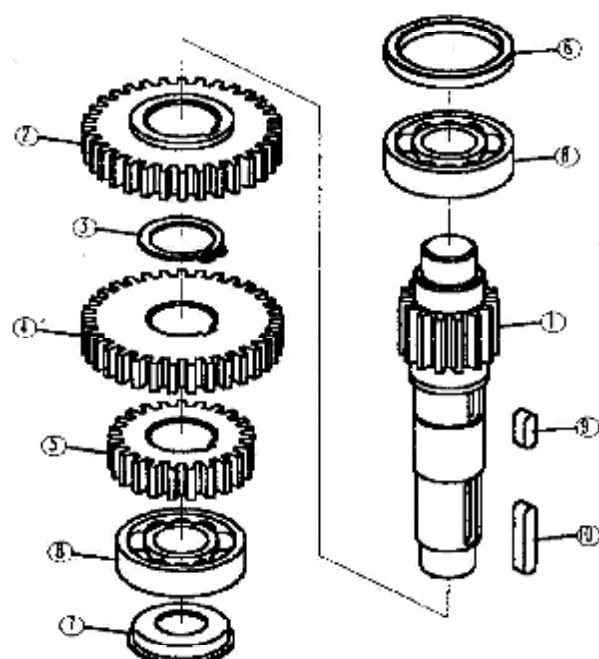
Figure 2. PLANETARY SHAFT

11030-02-000



	Description or Name	Parts No.	Qty	Remark
1	Planetary Shaft	11031-02-001	1	
2	Sleeve Drive	11031-02-002	1	
3	Low speed gear (52 T)	11030-02-003	1	
4	Bevel Gear (46 T)	11031-02-004	1	
4A	Washer	11031-02-004A	1	Without hub
5	High Speed Gear (32 T)	11031-02-005	1	
6	Copper Bearing	11031-02-006	2	
7	Clutch	11031-02-007	1	
8	Middle Speed Gear (44T)	11031-02-008	1	
9	Spacer	11031-02-009	1	
10	Spacer	11030-02-010	1	
11	Detain-Fixed Cover	11031-02-011	1	
12	Spring Sheet	11031-02-012	10	
13	Pin	11031-02-013	10	
14	Ball Bearing #6304Z	BR-5204Z	1	
15	Ball Bearing #6205Z	BR-6205Z	1	
16	Nut W3/4"*16NF-26*10	NUT-3/4*16NF-26*10	1	
17	Key 1/4*1/4*45L	KR-1/4*1/4*45	1	
18	Key 5 *5 *30L	KRR-5*5*30	2	
19	Key 1/4*1/4*45L	KR-1/4*1/4*45	1	
20	Oil Seal TC32x47x10	OS-TC32*47*10	1	

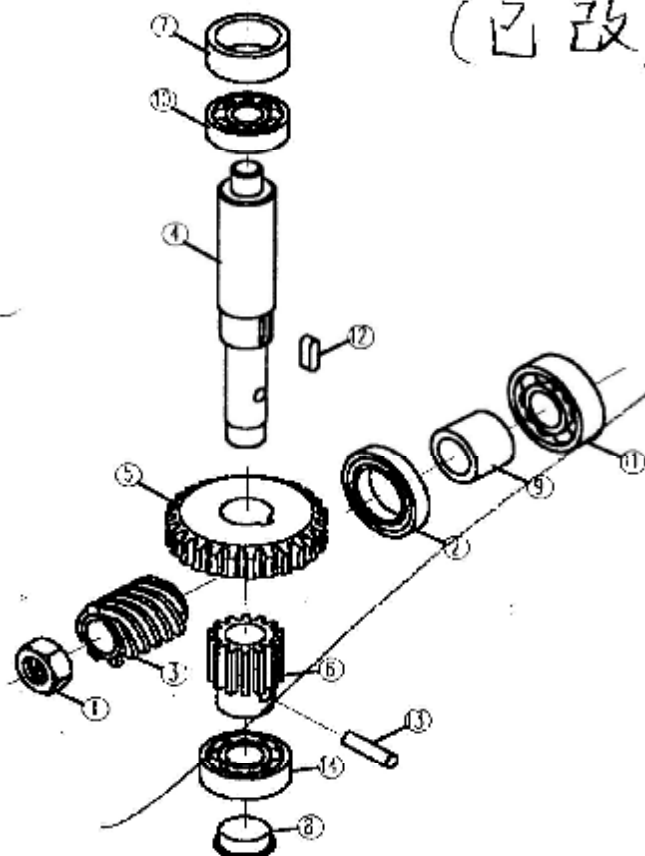
Figure 3. TRANSMISSION SHAFT



	Description or Name	HL part no.	Qty
1	Shaft Gear (15 T)	11031/03-01	1
2	Gear (32 T)	11031/03-02	1
3	C-Type Snap Ring S22	11031/03-03	1
4	Gear (33 T)	11031/03-04	1
5	Gear (23 T)	11031/03-05	1
6	Spacer	11031/03-06	1
7	Oil Baffle	11031/03-07	1
8	Ball Bearing #6203Z	11031/03-08	2
9	Key 5"*5"*15L	11031/03-09	1
10	Key 5"*5"*30L	11031/03-10	1

Figure 4. WORM GEAR SHAFT

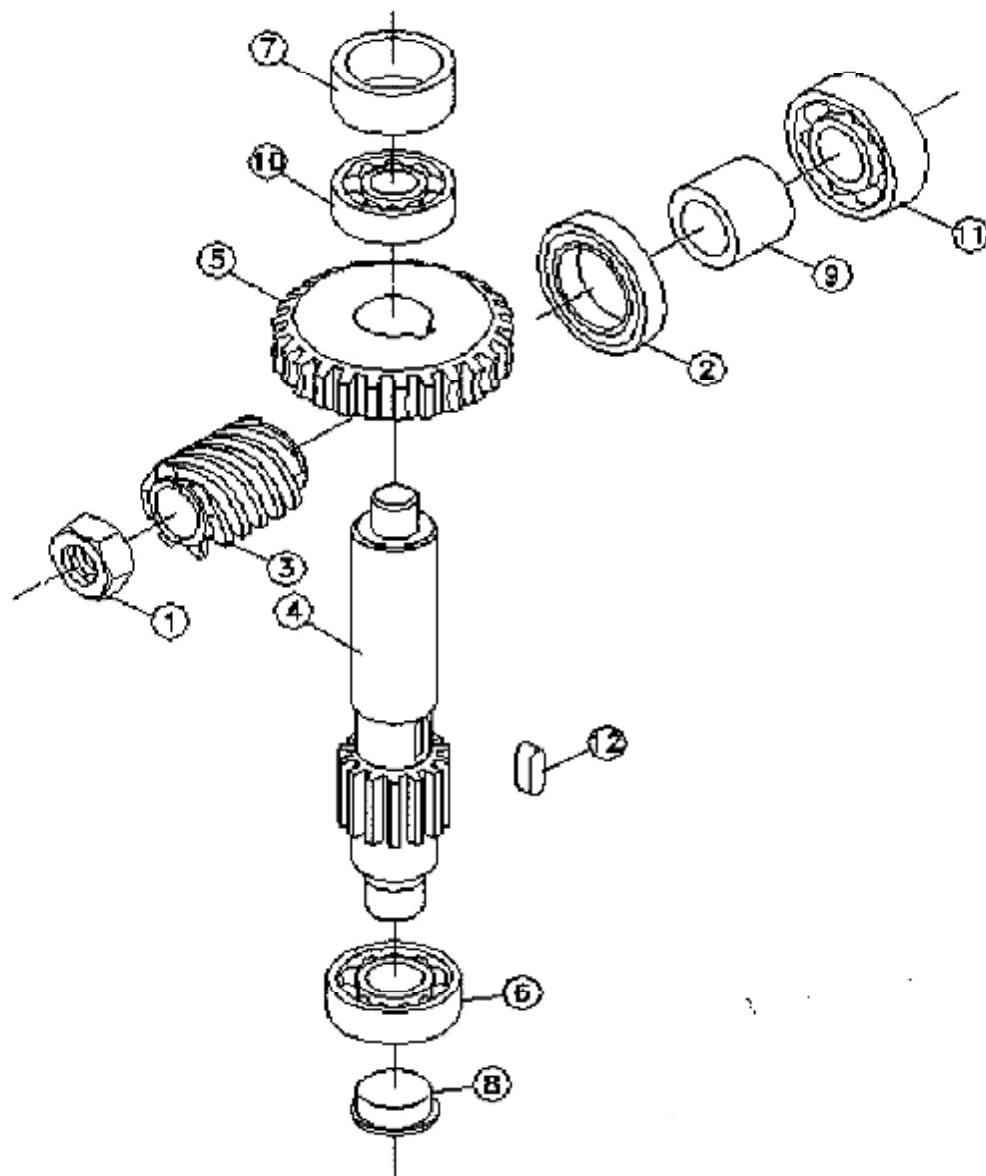
(已改)



	Description or Name	HL part no.	Qty
1	Nut W1/2"*20NF	11031/04-01	1
2	Oil Seal TC25*40*07	11031/04-02	1
3	Worm (4 M)	11031/04-03	1
4	Worm Gear Shaft	11031/04-04	1
5	Worm Gear (4 M)	11031/04-05	1
6	Drive gear (14T)	11031/04-06	1
7	Spacer	11031/04-07	1
8	Oil Baffle	11031/04-08	1
9	Spacer	11031/04-09	1
10	Ball Bearing #6201Z	11031/04-10	1
11	Ball Bearing #6203Z	11031/04-11	1
12	Key 5*5*15L	11031/04-12	1
13	Spring Pin #6*24L	11031/04-13	1
14	Ball Bearing #6202Z	11031/04-14	1

Figure 4. 11030-04WORM GEAR SHAFT

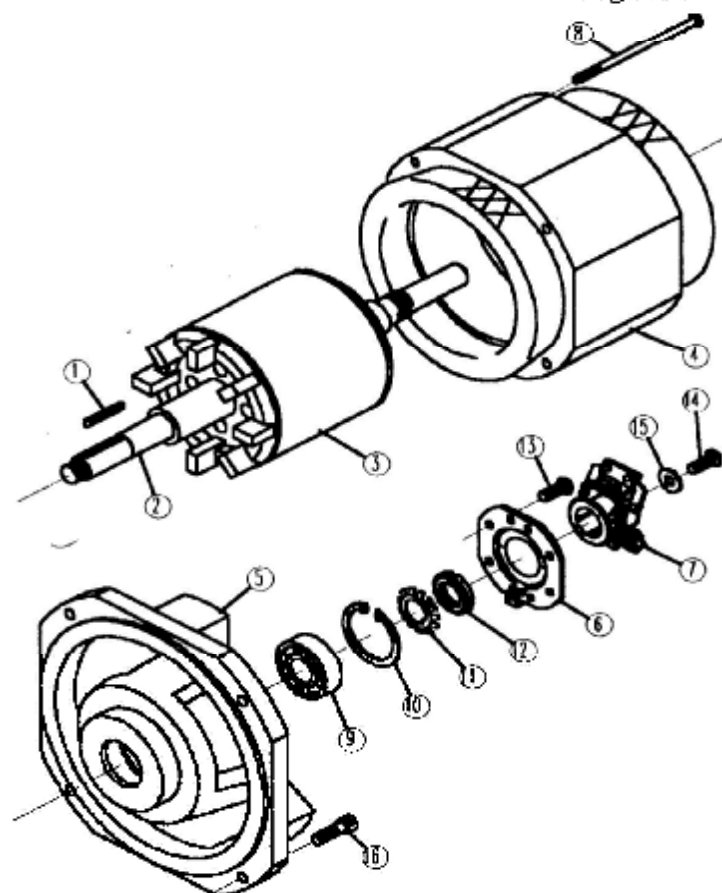
11031-04-000



PARTS LIST of 11030-04-000 WORM GEAR SHAFT

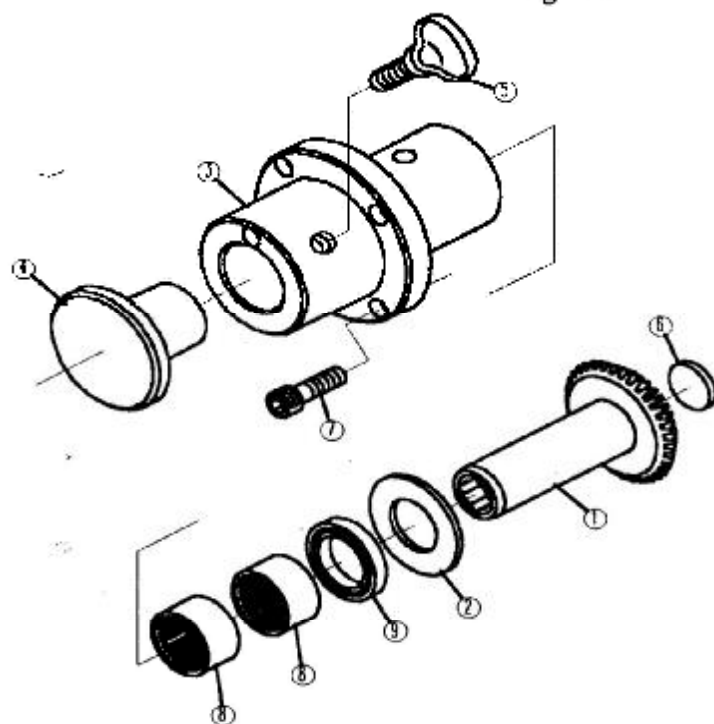
	Description or Name	Parts No.	Qty	Remark
1	Nut 1/2"*20NF	NUT-1/2*20NF	1	
2	Oil Seal TC25*40*07	OS-TC25*40*07	1	
3	Worm (5 M)	11012-04-003	1	
4	Worm Gear Shaft	11031-04-004	1	11031-04-004A
5	Worm Gear (5M)	11012-04-005	1	
6	Ball Bearing #6202Z	BR-6202Z	1	
7	Spacer	11031-04-007	1	
8	Oil Baffle	11012-04-008	1	
9	Spacer	11012-04-009	1	
10	Ball Bearing #6201Z	BR-6201Z	1	
11	Ball Bearing #6203ZZ	BR-6203ZZ	1	
12	Key 5*5*13"L	KRR-5*5*13	1	

Figure 5. MOTOR UNIT



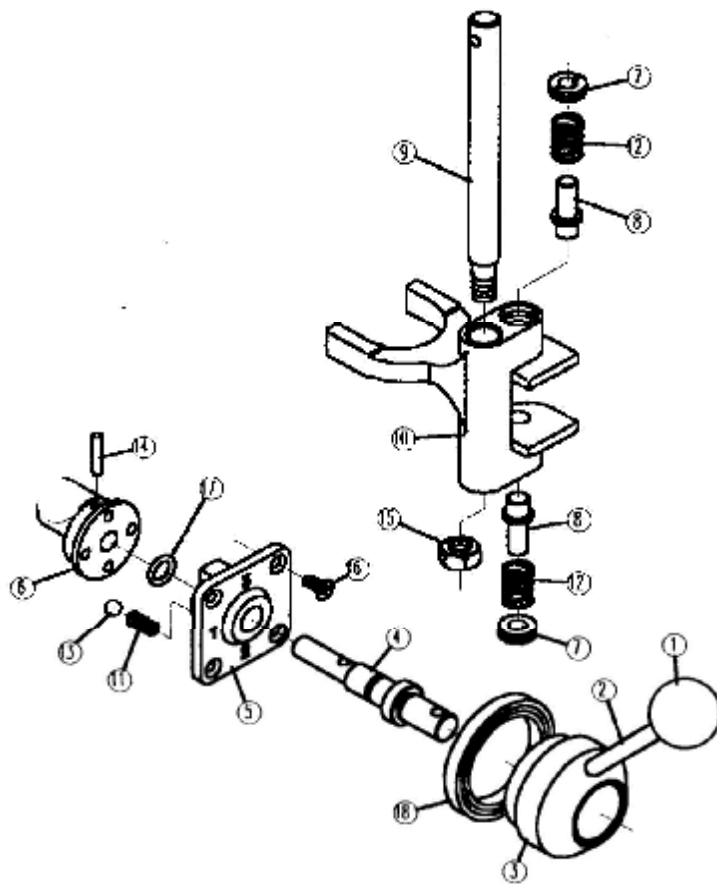
	Description or Name	HL part no.	Qty
1	Key 1/8"×1/8"×28L	11031/05-01	1
2	Motor Shaft	11031/05-02	1
3	Rotor of Motor	11031/05-03	1
4	Stator of Motor	11031/05-04	1
5	Bearing Housing	11031/05-05	1
6	Centrifugal Governor Plate	11031/05-06	1
7	Centrifugal Governor	11031/05-07	1
8	Screw W3/16"×2-1/2L	11031/05-08	4
9	Ball Bearing #6203ZZ	11031/05-09	1
10	C-type Snap Ring R40	11031/05-10	1
11	Lock Washer Ø17	11031/05-11	1
12	Lock Washer M17	11031/05-12	1
13	Screw W3/16"×1/4"L	11031/05-13	2
14	Screw W3/16"×3/8"L	11031/05-14	1
15	Spring washer Ø3/16"	11031/05-15	1
16	Screw W1/4"×5/8"L	11031/05-16	4

Figure 6. ATTACHMENT HUB



	Description or Name	IIL part no.	Qty
1	Bevel Pinion (35T)	11031/06-01	1
2	Spacer	11031/06-02	1
3	Hub Attachment	11031/06-03	1
4	Attachment Hole Plug	11031/06-04	1
5	Thumb Screw	11031/06-05	1
6	Oil Baffle	11031/06-06	1
7	Screw W1/4"×L5/8"	11031/06-07	4
8	Needle Bearing #BA1812	11031/06-08	2
9	Oil Seal TC28×42×07	11031/06-09	1

Figure 7 SHIFTING UNIT



	Description or Name	HL part no.	Qty
1	Shift handle knob	11031/07-01	1
2	Shift Handle	11031/07-02	1
3	Screw W3/16"*1/4"L	11031/07-03	1
4	Eccentric Shift Shaft	11031/07-04	1
5	Shift Selector	11031/07-05	1
6	Eccentric Shaft	11031/07-06	1
7	Screw	11031/07-07	2
8	Shift Fork Plunger	11031/07-08	2
9	Shifter Fixed Shaft	11031/07-09	1
10	Shift Fork	11031/07-10	1
11	Compression Spring	11031/07-11	2
12	Compression Spring	11031/07-12	2
13	Steel Ball Ø6	11031/07-13	2
14	Tapered Pin #4*24L	11031/07-14	1
15	Nut W3/8"*16NC	11031/07-15	1
16	Screw W3/16"*L1/4"	11031/07-16	4
17	O Ring P9	11031/07-17	1
18	Oil Seal TC45*62*09	11031/07-18	1
19	Set Screw W5/16"*15L	11031/07-19	1

NOTES

- The speed selector / shifting mechanism is designed for simplicity and reliability. It features three mixing speed.
- Speed selection is made by aligning the pointer of the shifter handle (2) with the proper number on the shift selector (5). Stop the mixer before making any speed changes.
- Apply sealant to the shift selector (5) assembly, and install it.

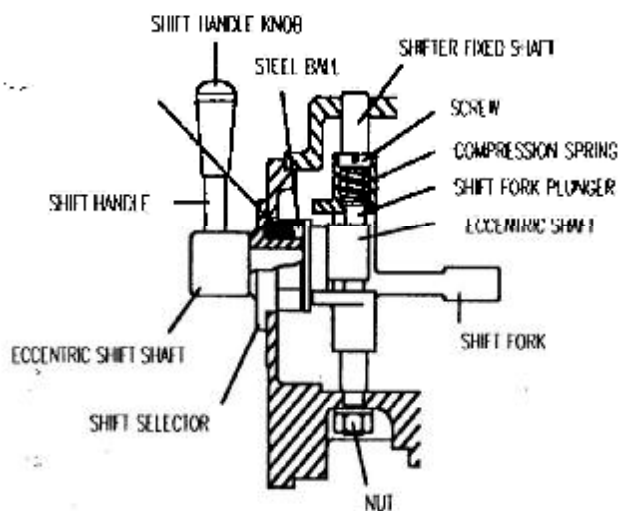
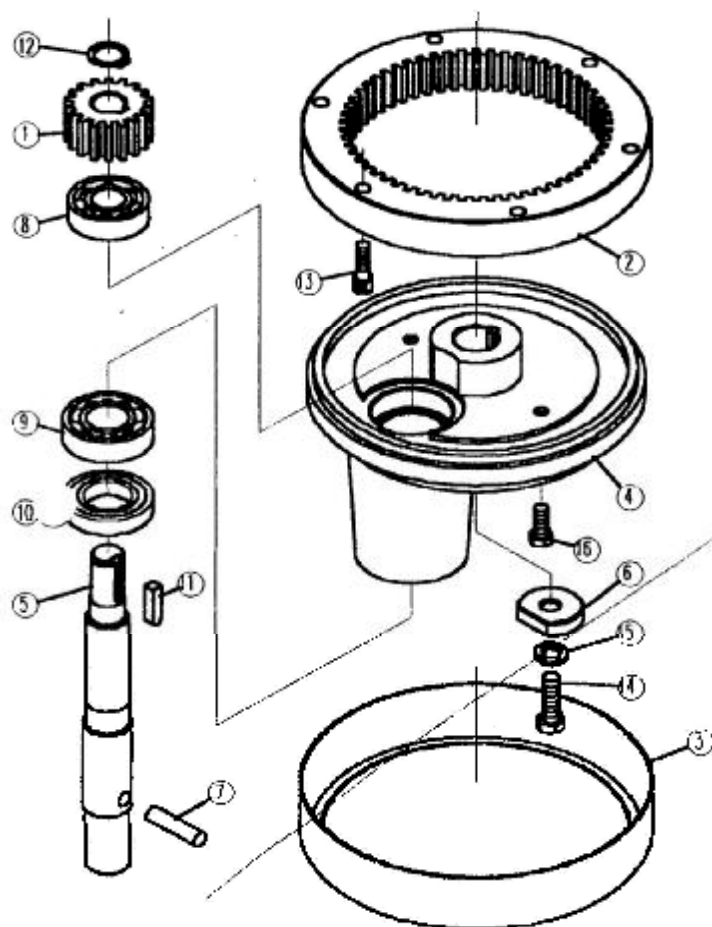


Figure 8. WORM GEAR SHAFT (已改)



	Description or Name	HL part no.	Qty
1	Internal Pinion (19 T)	11031/08-01	1
2	Internal Drive Gear	11031/08-02	1
3	Head Ring	11031/08-03	1
4	Planetary Head	11031/08-04	1
5	Agitating Shaft	11031/08-05	1
6	Spacer	11031/08-06	1
7	Tapered Pin	11031/08-07	1
8	Ball Bearing #6204Z	11031/08-08	1
9	Ball Bearing #6205Z	11031/08-09	1
10	Oil Seal TC28*52*10	11031/08-10	1
11	Key 1/4"*1/4"*30L	11031/08-11	1
12	C-type Snap Ring S19	11031/08-12	1
13	Screw W5/16"*3/4"L	11031/08-13	6
14	Screw W3/8"*3/4"L	11031/08-14	1
15	Spring Washer Ø3/8"	11031/08-15	1
16	Screw W1/4"*3/4"L	11031/08-16	2

NOTES

- The complete planetary assembly can be removed without opening the Transmission case.
- An oil leak from the bottom of the planetary head means the oil seal on the bottom of the mixing shaft is damaged and must be replaced.
- These bearings are grease packed and will require little attention. Service technicians may remove these bearings should greasing become necessary.
- To remove the mixing shaft from the planetary head, first remove the lock nut and washer on the mixing shaft inside the planetary head.
- Take off the head ring (3) once a month and wipe it clean

