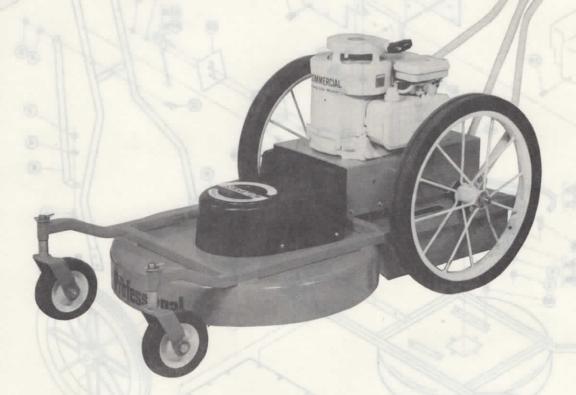
COMMERCIAL

SENSATION

POWER MOWER PARTS LIST

MODELS: 14W5-0

14W5-1



model 14W5-2 shown

THE SENSATION CORPORATION • OMAHA, NEBRASKA 68110 USA



ASSEMBLY 65 A 65 B (4) (3) (53) 61A 61B (51) (5) 39A 39B 31) 66A 66B 26 25 24



PARTS LIST

	REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
	1	252-205	Handle W/Grips	43	203-805	Spring, Idler
	2	323-305	Grips Only (Black)	44	970-224	Nut 3/8 Whizlock
	3	960-200	Nut 5/16 NC Hex	45	203-304	Spring Tab
	4	982-200	Lock Washer 5/16	46	999-458	Acetate Washer
	5	253-213	Handle Brace	47	293-302	Idler Arm
	-6	901-210	HCS 5/16 NC x 1-1/2	48	999-514	Shoulder Bolt
	7	043-222	Axle/Differential	49	960-224	Nut 3/8 NC Hex
	8	243-203	Axle Hanger Bearing	50	993-184	Clevis Pin 1/4 x 1/2
	9	901-227	HCS 3/8 NC x 3/4	51	901-205	HCS 5/16 NC x 3/4
	10	903-190	HCS 1/4 NC x 1-1/4	52	021-204	Engine Base
	11	964-181	Nut 1/4 NC Hex Lock	53	995-194	Key 1/4 Sq. x 2-1/4
	12	021-103	Shield, Bottom	54	929-156	MS 10/32 x 3/4 Truss
	13	243-804	Bearing, Flange	55	283-211	Belt Guard
	14	023-217	Side Guard .	56	243-302	Bushing, Nylon
	15	955-184	Tap Screw 1/4 NC x 1/2	57	957-140	Tap Screw 8/32 x 3/8
	16	031-201	Drag Shield	58	323-107	Control Panel
	17	323-304	Rubber, Drag Shield	59	974-151	Nut 10/24 Square
	18	032-201	Drag Shield Assembly	60	984-151	Lock Washer #10 Star
	19	021-203	Frame — Deck Assembly	61A	193-210	Throttle Control — Briggs
	20	980-224	Washer 3/8 Flat	61B	193-216	Throttle Control — Clinton
	21	123-202	Blade 24"	62	193-215	Reinforcement Plate
	22	982-224	Lock Washer 3/8	63	323-306	Knob-Throttle Control
	23	904-229	HCS 3/8 NF x 1 GR 5	64	924-154	MS 10/24 x 1/2 Truss
	24	083-504	Wheel 6" Steel	04	324-134	100 10/24 X 1/2 11035
	25	964-271	Nut 1/2 NC Hex Lock	65A	Head on M	odel 14W5-0
7		081-203	Wheel Fork	03A	Osed off ivi	
W.	26 27	901-283				Engine, 5 HP Clinton C.I.
			HCS 1/2 NC x 2-3/4	GED	Head on M	adal 14M/E 1
	28	082-204	Caster Assembly	65B	Used on M	odel 14W5-1
	29	273-206	Spacer, Height Adj.			Engine 5 HP B&S #130902
-	30	243-205	Bearing, Flange	004	Hand on M	Indial with Door Tires
	31	981-296	Washer, 5/8 Flat SAE	66A	Used on M	odels with Pneu. Tires
	32	999-147	Hair Pin Cotter			- 0,130S 8
	33	902-229	HCS 3/8 NF x 1		082-210	Wheel & Tire Ass'y.
	34	999-405	Washer, Special		083-222	Wheel Only
	35	063-303	Clutch		263-202	Tube 20 x 2.125
	36	273-112	Shaft Collar		263-201	Tire 20 x 2.125
	37A	153-102	Belt, 4L415		263-205	Rim Liner Strip
1	≉ 37B	153-101	Belt, 4L400		263-206	Valve Stem Cap
	38	901-207	HCS 5/16 NC x 1		Set La	and the same of th
	39A	313-205	Blade Spindle Ass'y.	66B	Used on M	odels with Semi Pneu. Tires
**	\$ 39B	312-203	Blade Spindle Ass'y			
	40	999-496	"U" Fastener		082-206	Wheel & Tire Ass'y.
	41	901-231	HCS 3/8 NC x 1-1/2		083-222	Wheel Only
	42	293-301	Pulley, Idler		263-203	Tire, 20 x 1.75

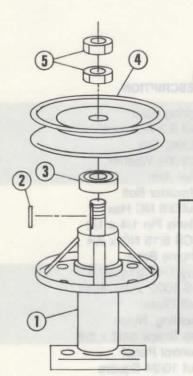
NOTE: * 1. Used on models with Blade Spindle P/N 312-203 with 4" OD Pulley.

** 2. Blade Spindle P/N 312-203 no longer available. Replaced with P/N 313-205. Use belt P/N 153-102 with replacement Blade Spindle P/N 313-205.

^{3.} The Engine used on this unit is warranted by the engine manufacturer and all parts and service must be obtained from the designated service center which may be found in the Yellow Pages under "Engines".



BLADE SPINDLE ASSEMBLY

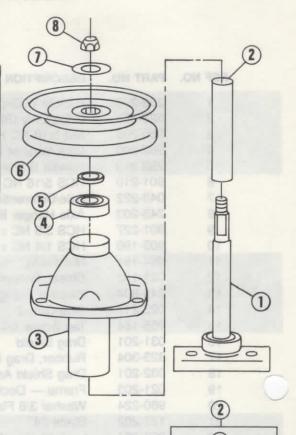


PART NO. 312-203

REF	NO.	PART NO.	DESCRIPTION
	1	313-204	Spindle w/Bearings
	2	995-158	Sq. Key 3/16x1
	3	243-209	Bearing Only
	4	143-303	Pulley 4" O.D.
	5	963-298	Nut 3/4 NF Hex Jam

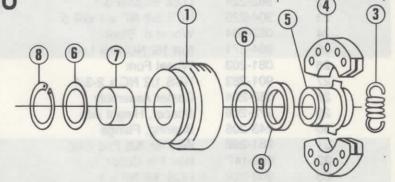
PART NO. 313-205

REF NO.	PART NO.	DESCRIPTION
1	313-206	Shaft Ass'y.
2	313-207	Sleeve
3	313-208	Spindle Housing
4	243-210	Bearing
5	313-209	Spacer
6	143-206	Pulley
7	999-576	Washer
8	999-577	Nut 7/16-20 Lock

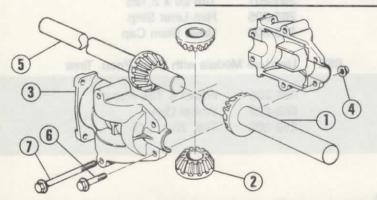


CLUTCH ASSEMBLY-COMET 350

REF NO.	PART NO.	DESCRIPTION
1	200169	Drum & Sheave
2	200125	Rotor Assembly
3	200114	Spring, Red
4	200117	Shoe Assembly
5	200124	Hub, Rotor
6	200147	Washer, Thrust
7	200145	Bushing, Bronze
8	1003	Snap Ring
9	202716	Steel Collar



NOTE: The Clutch Used On This Unit Is Warranted By The Manufacturer. All Parts And Service Must Be Obtained Direct From COMET INDUSTRIES, 358 N.W. "F" Street, Richmond, Indiana 47374.



DIFFERENTIAL ASSEMBLY-INDUS

REF NO.	INDUS PART NO.	DESCRIPTION
1	NA 10709	Axle Short Shaft
2	12798 NA	Miter Gear Housing Half
4	12682	Locknut
5	NA	Axle Long Shaft
6	13204	Bolt, Short
7	12680	Bolt, Long

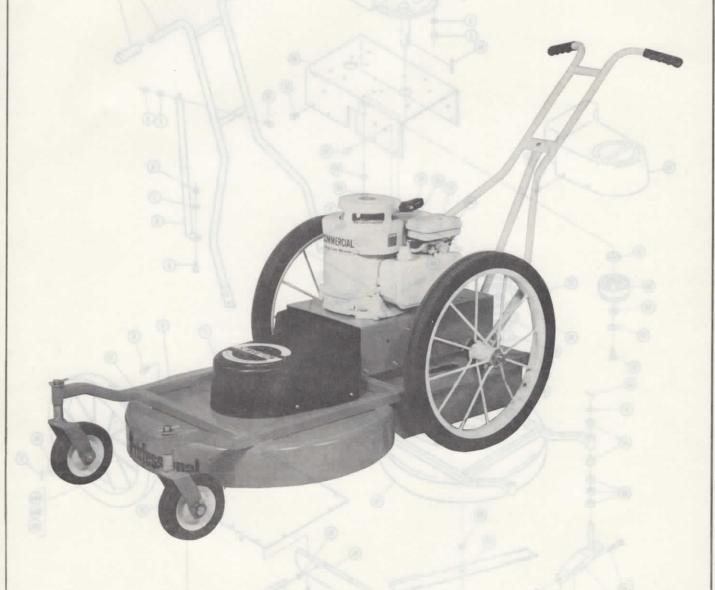
NOTE: The differential used on this unit is warranted by the manufacturer. Parts listed must be obtained direct from Indus Wheel Co., 1815 Madison Avenue, Indianapolis, Indiana 46206. If parts are not listed, complete unit modified by Sensation should be purchased from The Sensation Corp. P/N 043-209.

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POWER MOWER PARTS LIST

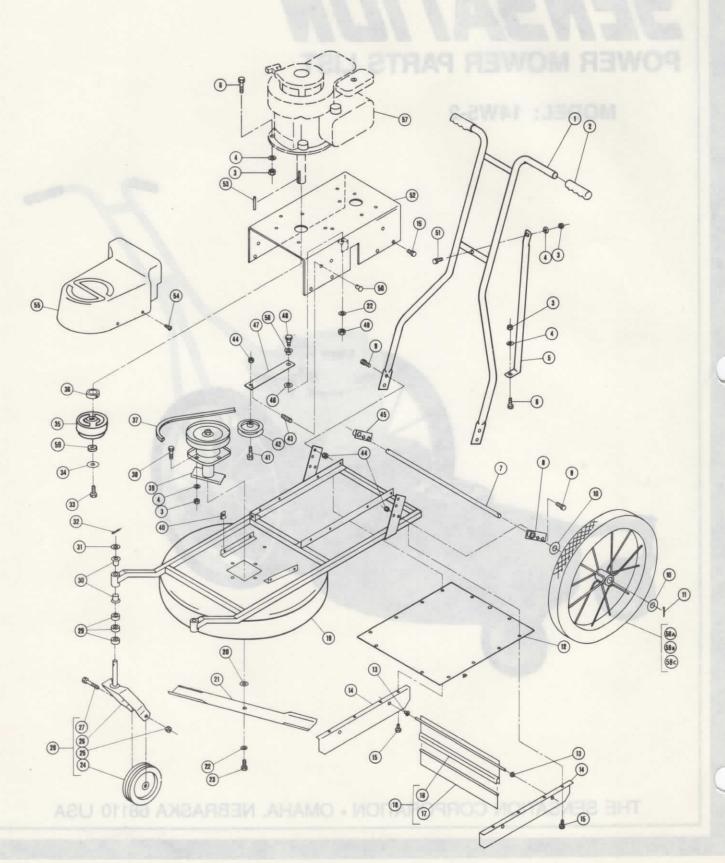
MODEL: 14W5-2



THE SENSATION CORPORATION • OMAHA, NEBRASKA 68110 USA



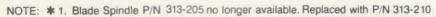
ASSEMBLY





PARTS LIST

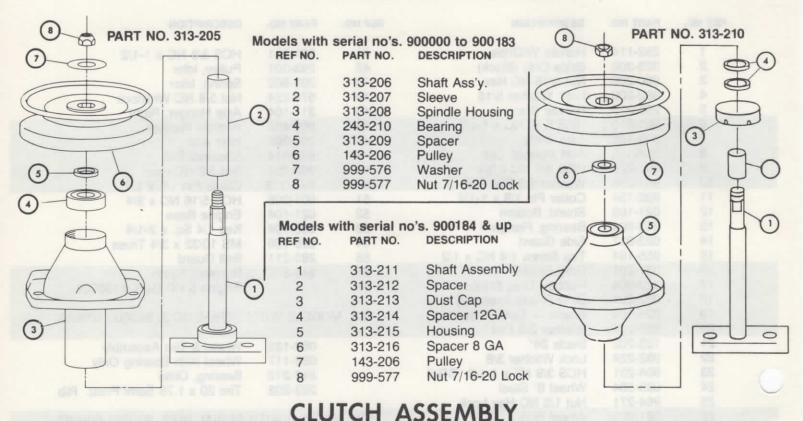
	REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
	1	252-114	Handle W/Grips	41	901-231	HCS 3/8 NC x 1-1/2
() E	2	323-305	Grips Only (Black)	42	293-301	Pulley, Idler
	3	960-200	Nut 5/16 NC Hex	43	203-805	Spring, Idler
	4	982-200	Lock Washer 5/16	44	970-224	Nut 3/8 NC Whizlock
	5	253-213	Handle Brace	45	311-104	Axle Hanger, Right
	6	901-210	HCS 5/16 NC x 1-1/2	46	999-458	Acetate Washer
	7	313-102	Axle Shaft	47	293-302	Idler Arm
	8	311-105	Axle Hanger, Left	48	999-514	Shoulder Bolt
	9	901-227		49	960-224	Nut 3/8 NC Hex
	10	981-296	Washer 5/8 Flat SAE	50	993-313	Clevis Pin 1/4 x 1/2
	11	992-134	Cotter Pin 1/8 x 1-1/4	51	901-205	HCS 5/16 NC x 3/4
	12	021-103	Shield, Bottom	52	021-104	Engine Base
(F) 1	13	243-804	Bearing, Flange	53	995-194	Key 1/4 Sq. x 2-1/4
	14	023-217	Side Guard	54	929-156	MS 10/32 x 3/4 Truss
	15	955-184	Tap Screw 1/4 NC x 1/2	55	283-211	Belt Guard
	16	031-201	Drag Shield	56	243-302	Bushing, Nylon
	17	323-304	Rubber, Drag Shield	57		Engine 5 HP B&S #130902
	18	032-201	Drag Shield Assembly			
	19	021-105	Frame — Deck Assembly	58A	MODELS WITH	SERIAL NO'S. 800000-900058
	20	980-224	Washer 3/8 Flat			
	21	123-202	Blade 24"		082-125	Wheel & Tire Assembly
	22	982-224	Lock Washer 3/8		082-117	Wheel With Bearing Only
	23	904-231	HCS 3/8 NF x 1-1/2 GR 5		243-212	Bearing, Oilite
	24	083-504	Wheel 6" Steel		263-203	Tire 20 x 1.75 Semi Pneu. Rib
	25	964-271	Nut 1/2 NC Hex Lock			
	26	081-203	Wheel Fork	58B	MODELS WITH	SERIAL NO'S. 900059-900082
	27	901-283	HCS 1/2 NC x 2-3/4			900124 & UP
	28	082-204	Caster Assembly			
	29	273-206	Spacer, Height Adj.		082-121	Wheel & Tire Assembly
	30	243-205	Bearing, Flange		082-122	Wheel With Bearing Only
	31	981-296	Washer, 5/8 Flat		243-106	Bearing, Oilite
	32	999-571	Clinch Pin		263-203	Tire 20 x 1.75 Semi Pneu. Rib
	33	902-229	HCS 3/8 NF x 1			
	34	999-405	Washer, Special	58C	MODELS WITH	SERIAL NO'S. 900083-900123
	35	063-303	Clutch			
	36	273-112	Shaft Collar		082-124	Wheel & Tire Assembly
	37	153-102	Belt, Blade Drive		082-123	Wheel With Bearing Only
	38	901-207	HCS 5/16 NC x 1		243-106	Bearing, Oilite
	39	313-205 313-210	* Blade Spindle Ass'y. Blade Spindle Ass'y.		263-208	Tire 20 x 1.75 Semi Pneu. Dia.
	40	999-496	"U" Fastener	59	273-113	Spacer



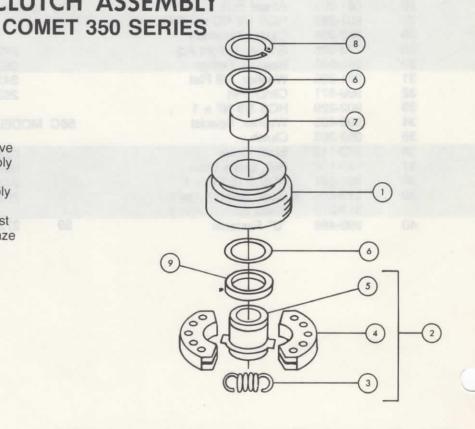
2. The Engine used on this unit is warranted by the engine manufacturer and all parts and service must be obtained from the designated service center which may be found in the Yellow Pages under "Engines".



BLADE SPINDLE ASSEMBLY

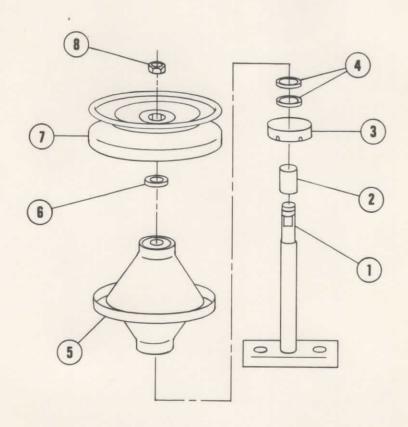


REF NO.	PART NO.	DESCRIPTION
1	200169	Drum & Sheave
2	200125	Rotor Assembly
3	200114	Spring, Red
4	200117	Shoe Assembly
5	200124	Hub, Rotor
6	200147	Washer, Thrust
7	200145	Bushing, Bronze
8	1003	Snap Ring
9	202716	Steel Collar





NOTICE: Models 24S5-7 and 14W5-2 are equipped with a different blade spindle than that listed in the parts list. The blade spindle P/N 313-205 has been replaced by blade spindle P/N 313-210, illustrated below.



Item No.	Part No.	Description
1 2 3 4 5 6 7 8	313-211 313-212 313-213 313-214 313-215 313-216 143-206 999-577	Shaft Assembly Spacer Dust Cap Spacer 12GA Housing W/Bearings Spacer 8 GA Pulley Nut 7/16-20 Lock

COMMERCIAL

SENSATION

POWER MOWER PARTS LIST

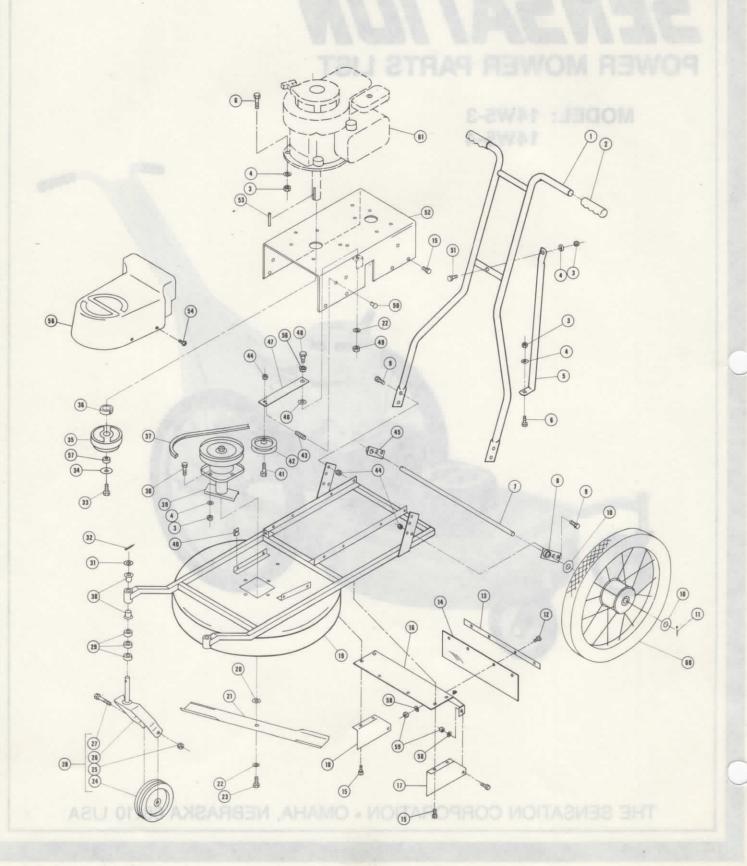
MODEL: 14W5-3 14W5-4



THE SENSATION CORPORATION • OMAHA, NEBRASKA 68110 USA



ASSEMBLY



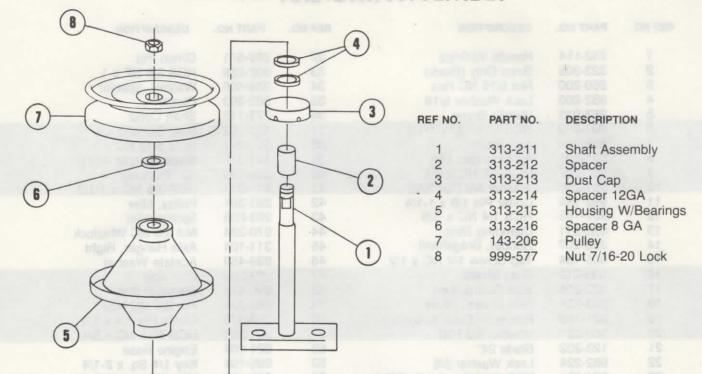


PARTS LIST

REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
1	252-114	Handle W/Grips	32	999-571	Clinch Pin
2	323-305	Grips Only (Black)	33	902-229	HCS 3/8 NF x 1
3	960-200	Nut 5/16 NC Hex	34	999-405	Washer, Special
4	982-200	Lock Washer 5/16	35	063-303	Clutch
5	253-213	Handle Brace	36	273-112	Shaft Collar
6 7	901-210	HCS 5/16 NC x 1-1/2	37	153-102	Belt, Blade Drive
7	313-106	Axle Shaft	38	901-207	HCS 5/16 NC x 1
8	311-105	Axle Hanger, Left	39	313-210	Blade Spindle Ass'y.
9	901-227	HCS 3/8 NC x 3/4	40	999-496	"U" Fastener
10	981-296	Washer 5/8 Flat SAE	41	901-231	HCS 3/8 NC x 1-1/2
11	992-134	Cotter Pin 1/8 x 1-1/4	42	293-301	Pulley, Idler
12	901-185	HCS 1/4 NC x 5/8	43	203-805	Spring, Idler
13	033-211	Clamping Strip	44	970-224	Nut 3/8 NC Whizlock
14	323-207	Rubber, Dragshield	45	311-104	Axle Hanger, Right
15	955-184	Tap Screw 1/4 NC x 1/2	46	999-458	Acetate Washer
16	033-212	Drag Shield	47	293-302	Idler Arm
17	023-255	Side Guard, Left	48	999-514	Shoulder Bolt
18	023-254	Side Guard, Right	49	960-224	Nut 3/8 NC Hex
19	021-106	Frame — Deck Assembly	50	993-313	Clevis Pin 1/4 x 1/2
20	980-224	Washer 3/8 Flat	51	901-205	HCS 5/16 NC x 3/4
21	123-202	Blade 24"	52	021-104	Engine Base
22	982-224	Lock Washer 3/8	53	995-194	Key 1/4 Sq. x 2-1/4
23	904-231	HCS 3/8 NF x 1-1/2 GR 5	54	929-156	MS 10/32 x 3/4 Truss
24	083-504	Wheel, 6" Steel 14W5-3	55	283-211	Belt Guard
	083-302	Wheel, 5" Steel 14W5-4	56	243-302	Bushing, Nylon
25	964-271	Nut 1/2 NC Hex Lock	57	273-113	Spacer
26	081-203	Wheel Fork	58	982-181	Lock Washer 1/4 Split
27	901-283	HCS 1/2 NC x 2-3/4	59	960-181	Nut 1/4 NC Hex
28	082-204	Caster Ass'y. 14W5-3	60	083-114	Wheel Bearing & Tire Ass'y.
	082-211	Caster Ass'y 14W5-4		243-107	Bearing Only
29	273-206	Spacer, Height Adj.	61		Engine 5 HP B&S #130902
30	243-205	Bearing, Flange			
31	981-296	Washer, 5/8 Flat			

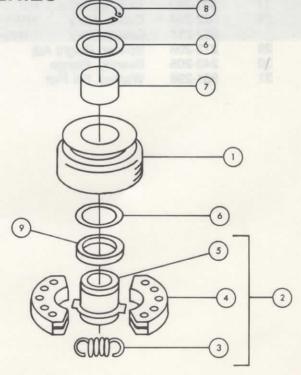


BLADE SPINDLE ASSEMBLY



CLUTCH ASSEMBLY COMET 350 SERIES

REF NO.	PART NO.	DESCRIPTION
1	200169	Drum & Sheave
2	200125	Rotor Assembly
3	200114	Spring, Red
4	200117	Shoe Assembly
5	200124	Hub, Rotor
6	200147	Washer, Thrust
7	200145	Bushing, Bronze
8	1003	Snap Ring
9	202716	Steel Collar



COMMERCIAL

SENSATION

POWER MOWER OWNER'S MANUAL

MODELS: 14W5-0

14W5-1

14W5-2

14W5-3

14W5-4



THE SENSATION CORPORATION • OMAHA, NEBRASKA 68110 USA



SAFETY



Caution Symbol
THE TRIANGULAR SYMBOL SHOWN ABOVE IS
USED THROUGHOUT THIS BOOKLET TO CALL
SPECIAL ATTENTION TO ITEMS AFFECTING THE
OPERATOR'S PERSONAL SAFETY. THESE ITEMS
SHOULD BE GIVEN CLOSE ATTENTION.

- 1. Keep all shields in place.
- Wait for all movement to stop before servicing machine.
- Keep people and pets a safe distance away from machine.
 - Know the controls and how to stop quickly READ THE OWNER'S MANUAL.
- 5. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction.
- 6. Do not carry passengers.
- Clear work area of objects which might be picked up and thrown. The blade can throw objects with sufficient force to cause damage or injury.
- 8. Stop engine before leaving operator position and before making any repairs or adjustments.
- Take all possible precautions when leaving vehicle unattended, such as stopping engine.
- Do not stop or start suddenly when going uphill or downhill. Mow across the face of steep slopes, never up and down the face.
- Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
- Stay alert for holes in terrain and other hidden hazards.
- 13. Handle gasoline with care it is highly flammable.
 - A. Use approved gasoline container.
 - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors.
 - C. Wipe up any spilled gasoline thoroughly before starting the engine.
 - D. Open doors if engine is run in garage exhuast fumes are dangerous. Do not run engine indoors.

- Keep vehicle and attachments in good operating condition and keep safety devices in place.
- Keep all nuts, bolts, and screws tight to be sure equipment is in safe working condition.
- Never store equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark.
- 17. Allow engine to cool before storing in any enclosure.
- 18. To reduce fire hazard, keep engine free of grass, leaves, or excessive grease.
- 19. Vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
- Do not change engine governor settings or overspeed engine.
- 21. When using mower:
 - A. Mow only in daylight or in good artificial light.
 - B. Never make a cutting-height adjustment while engine is running.
 - C. Shut engine off when unclogging chute.
 - Check blade-mounting bolts for proper tightness at frequent intervals.
 - E. The blade continues to rotate for a few seconds after the engine is shut off. Do not place any part of the body in the blade area until you are sure the blade has stopped.
 - F. Do not mow on wet grass.
- Do not wear loose-fitting clothing that could get caught in moving parts.
- Follow maintenance instructions as outlined in this manual.
- 24. DISCONNECT THE SPARK PLUG WIRE BEFORE MAKING ANY ADJUSTMENT OR REPAIR.



SET-UP INSTRUCTIONS

HANDLE ASSEMBLY

- 1. Position the handle onto the outside of the handle brackets. Secure using four hex cap screws 3/8 NC x 3/4 (insert from the outside) and flange lock nuts provided. Finger tighten only.
- 2. Attach the handle brace onto the top of the frame using hex cap screw 5/16 NC x 1-1/2, lock washer, and nut provided. Finger tighten only.
- 3. Attach the brace to the handle (Push the handle up slightly, if necessary). Secure using 5/16 NC nut and lock washer provided.
- 4. Tighten all nuts and bolts installed in steps 1, 2, and 3.

CONTROL PANEL ASSEMBLY 14W5-0, -1

1. Remove the protective packing from the control panel. Place the panel on the handle aligning the 4 mounting holes. Secure using 4-8/32 x 3/8 tapping screws provided. Do not overtighten.

ENGINE

Follow engine manufacturer's instructions (refer to engine manual provided).

ADJUSTMENTS

BLADE BELT TENSION

Tension — The Idler Arm is spring loaded, making it self-adjusting. Therefore, no adjustments are required.



CAUTION: STOP ENGINE BEFORE MAK-ING ANY WHEEL ADJUSTMENTS.

Your mower can cut grass at heights of 3", 2-1/2", 2", and 1-1/2". Height adjustment is made by adding or removing spacers from the front wheel spindles.

TO ADJUST HEIGHT

- 1. Remove the clinch pin, washer, and wheel assembly from the mower.
- 2. Remove or add spacers on the wheel spindle shaft according to the cutting height desired.

Zero spacers — 1-1/2" cut One spacer — 2" cut

Two spacers — 2-1/2" cut

Three spacers - 3" cut

- 3. Reinstall the wheel assembly on the mower.
- 4. Place the remaining spacers (if any) back onto the wheel spindle shaft.
- 5. Secure with washer and clinch pin.

OPERATION



CAUTION: DO NOT OPERATE MOWER WITHOUT DRAG SHIELD ASSEMBLY IN PLACE AND SWINGING FREELY.

MOWING

Note: Mow with a sharp blade as a dull blade tends to tear, rather than cut, grass.

Move the throttle control lever to a suitable running

speed for mowing. Note: For best results, the mower

should be operated with the engine at full or nearly

STARTING



CAUTION: LOCATE MACHINE ON A LEVEL SURFACE BEFORE STARTING TO PREVENT MACHINE FROM ROLLING.

Move throttle control lever to choke position. Pull recoil handle briskly until engine starts. To stop engine, move throttle control lever to "Stop" position.



full throttle. CAUTION: WHEN CROSSING A GRAVEL DRIVEWAY, ROAD, OR SIDEWALK,

CARE SHOULD BE TAKEN SO LOOSE

SAND AND ROCKS ARE NOT THROWN.



MAINTENANCE



CAUTION: DISCONNECT SPARK PLUG LEAD PRIOR TO PERFORMING ANY MAINTENANCE.

BLADE SPINDLE

The blade spindle is equipped with sealed precision ball bearings and requires no lubrication. The bearings are replaceable when in need of replacement.

DECK HOUSING

Area beneath deck housing should be clear of matter, grass, or other debris to prevent possible blade interference and to insure best cutting performance.

ENGINE

Follow engine manufacturers' recommendation (refer to engine manual provided).

WHEELS

- 1. Lubricate each front wheel bearing and rear on 14W5-3 periodically using a grease gun.
- Lubricate front wheel spindle bearing (and rear wheel bearings on 14W5-2) periodically using a light oil (SAE 10).

DIFFERENTIAL MODELS 14W5-0, -1

The differential is sealed at the factory and should not require adjustment or lubrication.

AXLE HANGER BEARINGS 14W5-0, -1

The rear wheel axle hanger bearing are sealed bearings which require no lubrication.

BLADE

The blade must be kept sharp and in balance to insure best cutting results and top engine performance. Use genuine "Sensation" replacement blades. Substitutes may endanger performance and personal safety.



CAUTION: REPLACE BLADE WHICH SHOWS ANY SIGN OF CRACKS OR CRYS-TALIZATION TO PREVENT ITS DISINTE-GRATION AT HIGH ROTATING SPEEDS.



CAUTION: USE A PAD OR WEAR A HEAVY GLOVE TO PROTECT YOUR HAND WHEN REMOVING OR INSTALLING BLADE.

BLADE REMOVAL/REPLACEMENT

Assemble blade in sequence as illustrated on parts diagram. Tighten blade bolt securely. Bolt should be torqued to 35 ft/LB's.

BLADE SHARPENING

It is recommended that the blade be taken to your Sensation dealer to insure proper sharpening and balancing.

BELT REPLACEMENT

Note: Due to the unique characteristics and functions of these belts, only genuine Sensation service parts should be used for replacement to insure proper belt operation.

BLADE DRIVE BELT

- 1. Place blade control lever in the disengaged position.
- Insure that spark plug lead is removed before proceeding.
- Remove belt guard from cutting deck and loosen mounting bolts on belt guides.
- Remove and install new belt. Be sure belt is inside belt guides and that the mounting bolts have been secured.
- Place blade control lever in the cut position. Visually check belts to see that they are not striking any of the belt guides. Adjust guides if necessary.
- 6. Re-assemble belt guard.

OPTIONAL EQUIPMENT

AUXILIARY GAS TANK KIT

Adds 3 quart capacity to your current engine gas tank — means less down time for refilling.

SKID BARS

Replaces the standard 6" front caster wheel assembly. Used in heavy weeded areas eliminating cut weed accumulation on front end of mower.

ONE-PIECE SENSATION SUIT

Bright, highway safety orange colored utility jumpsuit. Provides protection for personal clothing and gives a neat, snappy, professional teamwork look.

GREASE GUN KIT

Used for lubricating wheel bearings.

Form No. 113-136 11/79

COMMERCIAL I

SENSATION

POWER MOWER PARTS LIST

MODELS: 24S5-2 24S5-3



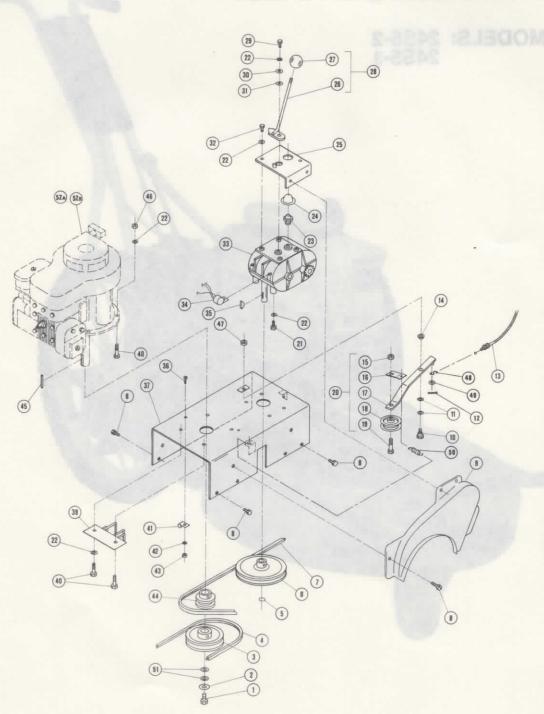


THE SENSATION CORPORATION • OMAHA, NEBRASKA 68110 USA



ENGINE BASE ASSEMBLY

POWER MOWER PARTS LIST



THE SENSATION CORPORATION - OMAHA, NEBRASKA 68110 USA



ENGINE BASE PARTS LIST

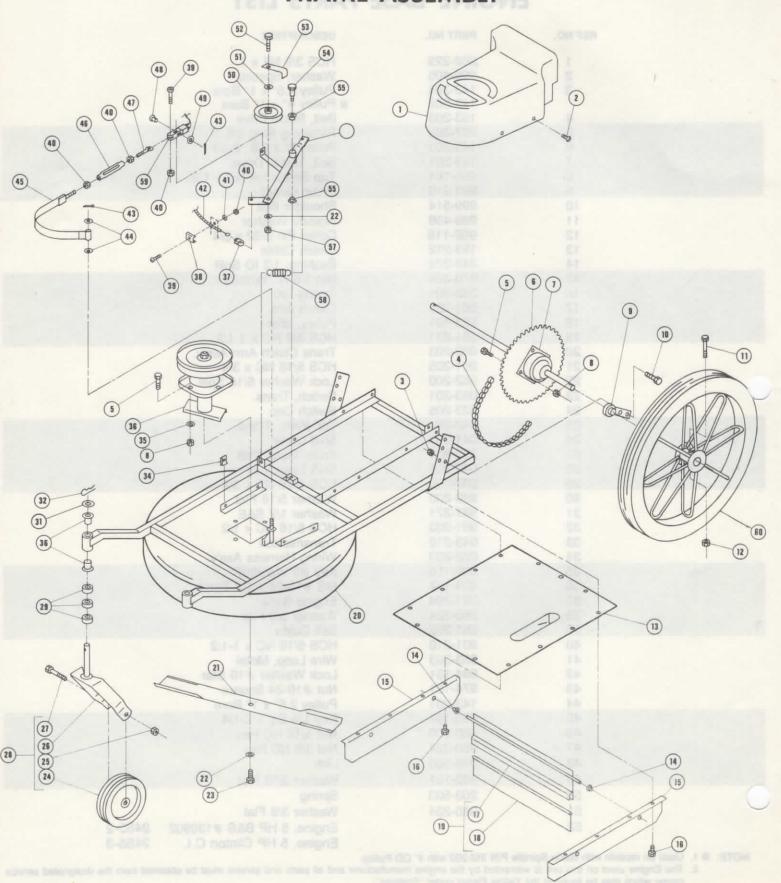
REF NO.	PART NO.	DESCRIPTION		
15	902-229	HCS 3/8 NF x 1		
2	999-405	Washer, Special		
3	143-305	Pulley 4.5" x 1" Bore		
	143-302	* Pulley 4" x 1" Bore		
4	153-203	Belt, Blade Drive		
5	987-296	Retaining Ring 5/8		
6	143-203	Pulley 8" x 5/8" Bore		
7	153-201	Belt, Trans. Drive		
8	955-184	Tap Screw 1/4 NC x 1/2		
9	283-210	Chain Guard		A STATE OF
10	999-514	Shoulder Bolt		
11	999-458	Acetate Washer		
12	992-118	Cotter Pin 3/32 x 3/4		
13	193-212	Clutch Cable		
14	243-302	Bushing, 1/2 ID Split		
15	970-224	Nut 3/8 NC Whizlock		
16	203-301	Spring Tab		
17	061-201	Clutch Arm		
18	293-401	Pulley, Idler		
19	901-231	HCS 3/8 NC x 1-1/2		
20	062-203	Trans Clutch Arm Ass'y.		
21	901-205	HCS 5/16 NC x 3/4		
22	982-200	Lock Washer 5/16 Split		
23	053-201	Switch, Trans.		
24	323-205	Switch Cap		
25	042-204	Top Plate, Trans.		
26	041-201 323-804	Shift Lever		
27 28	042-205	Knob, Gear Shift		
29	902-205	Shift Lever Ass'y. HCS 5/16 NF x 3/4		
30	980-200	Washer 5/16 Flat		
31	981-271	Washer 1/2 SAE		
32	901-203	HCS 5/16 NC x 1/2		
33	043-210	Transmission		
34	052-203	Wiring Harness Ass'y.		
35	996-156	Key #9 Woodruff		
36	924-154	MS #10-24 x 1/2 Truss		
37	021-204	Engine Base		
38	980-224	Washer 3/8 Flat		
39	281-202	Belt Guide		
40	901-210	HCS 5/16 NC x 1-1/2		
41	053-303	Wire Loop, Metal		
42	984-151	Lock Washer #10 Star		
43	974-151	Nut #10-24 Square		
44	143-201	Pulley 2.5" x 1" Bore		
45	995-194	Key 1/4 Sq. x 2-1/4		
46	960-200	Nut 5/16 NC Hex		
47	960-224	Nut 3/8 NC Hex		
48	999-560	Link		
49	980-151	Washer 3/16 Flat		
50	203-503	Spring		
51	980-224	Washer 3/8 Flat		
52	JUU-LL-T	Engine, 5 HP B&S #130902	24S5-2	
32		Engine, 5 HP Clinton C.I.	24S5-3	

NOTE: * 1. Used on models with Blade Spindle P/N 312-202 with 4" OD Pulley.

2. The Engine used on this unit is warranted by the engine manufacturer and all parts and service must be obtained from the designated service center which may be found in the Yellow Pages under "Engines". 3



FRAME ASSEMBLY



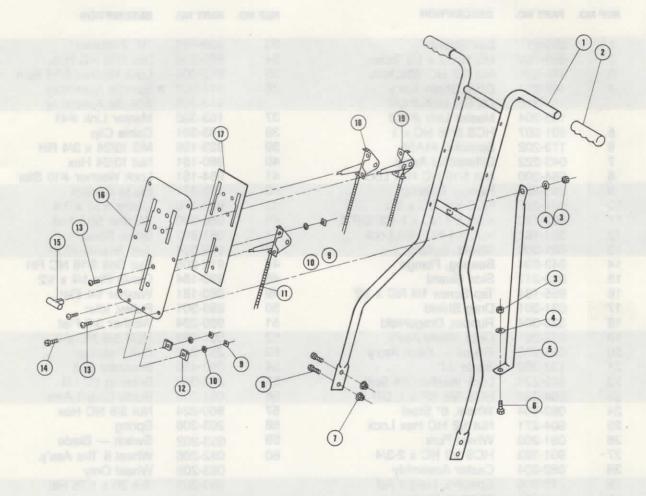


FRAME ASSEMBLY PARTS LIST

	REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION	
	1	283-211	Belt Guard	33	999-496	"U" Fastener	
	2	929-154	MS 10/32 x 1/2 Truss	34	960-200	Nut 5/16 NC Hex	
	3	970-224	Nut 3/8 NC Whizlock	35	982-200	Lock Washer 5/16 Split	
	4	162-201	Drive Chain Ass'y.	36		* Spindle Assembly	
		163-210	Off Set Link #420		313-205	Spindle Assembly	
		163-204	Master Link #420	37	163-302	Master Link #41	
	5	901-207	HCS 5/16 NC x 1	38	193-301	Cable Clip	
	6	173-202	Sprocket 41A54	39	923-156	MS 10/24 x 3/4 RH	
	7	043-222	Differential Ass'y.	40	960-151	Nut 10/24 Hex	
	8	964-200	Nut 5/16 NC Hex Lock	41	984-151	Lock Washer #10 Star	
	9	243-203	Hanger Bearing	42	193-211	Blade Control	
	10	901-227	HCS 3/8 NC x 3/4	43	992-118	Cotter 3/32 x 3/4	
	11	903-190	ACS 1/4 NC x 1-1/2, GR 8	44	980-200	Washer 5/16 Flat	
	12	964-181	Nut, 1/4 NC Hex Lock	45	061-203	Brake Band	
	13	021-209	Shield, Bottom	46	999-554	Turn Buckle 10/24	
	14	243-804	Bearing, Flange	47	912-305	Eye Bolt 3/16 NC RH	
	15	023-217	Side Guard	48	993-184	Clevis Pin 1/4 x 1/2	
	16	955-184	Tap Screw 1/4 NC x 1/2	49	980-181	Washer 1/4 Flat	
	17	031-201	Drag Shield	50	293-301	Pulley, Idler	
	18	323-304	Rubber, Dragshield	51	980-224	Washer 3/8 Flat	
	19	032-201	Drag Shield Ass'y.	52	901-233	HCS 3/8 NC x 2	
Y	20	021-203	Frame — Deck Ass'y.	53	283-217	Belt Retainer	
	21	123-202	Blade 24"	54	999-456	Shoulder Bolt	
	22	982-224	Lock Washer 3/8 Split	55	243-302	Bushing 1/2 I.D.	
	23	904-229	HCS 3/8 NF x 1, GR 5	56	061-202	Blade Clutch Arm	
	24	083-504	Wheel, 6" Steel	57	960-224	Nut 3/8 NC Hex	
	25	964-271	Nut 1/2 NC Hex Lock	58	203-206	Spring	
	26	081-203	Wheel Fork	59	053-202	Switch — Blade	
	27	901-283	HCS 1/2 NC x 2-3/4	60	082-206	Wheel & Tire Ass'y.	
	28	082-204	Caster Assembly		083-209	Wheel Only	
	29	273-206	Spacers, Height Adj.		263-203	Tire 20 x 1/75 Rib	
	30	243-205	Bearing, Flange				
	31	981-296	Washer 5/8 Flat				
	32	994-147	Hair Pin Cotter				



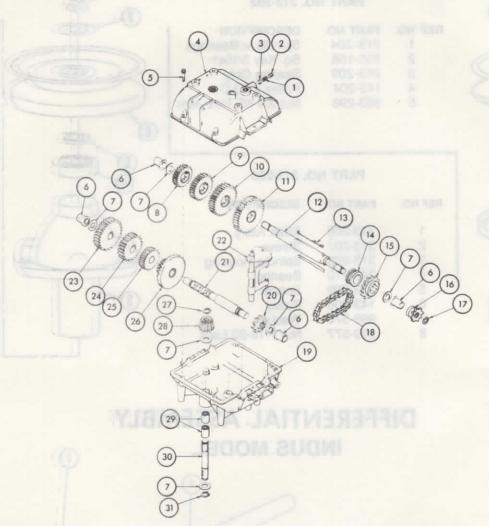
HANDLE ASSEMBLY



REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
1	252-205	Handle w/Grips	11	193-210	Throttle Control
2	323-305	Handle Grips	12	053-303	Wire Loop, Metal
3	960-200	Nut 5/16 NC Hex	13	926-154	MS 10/24 x 1/2
4	982-200	Lock Washer 5/16	14	957-140	Tap Screw 8/32 x 3/8
5	253-213	Handle Brace	15	323-306	Knob
6	901-211	HCS 5/16 NC x 1-1/4	16	323-203	Control Panel
7	970-224	Nut 3/8 NC Whizlock	17	193-213	Reinforcement Panel
8	901-227	HCS 3/8 NC x 3/4	18	193-211	Blade Control
9	974-151	Nut 10/24 Square	19	193-212	Clutch Control
10	984-151	Lock Washer #10 Star	20	901-205	HCS 5/16 NC x 3/4



TRANSMISSION ASSEMBLY PEERLESS 500 SERIES



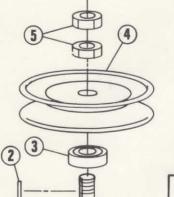
	PEERLESS			PEERLESS	
REFN	O. PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
1	792079	Spring	17	792072	Retaining Ring
2	792078	Set Screw 3/8-16	18	786062	Roller Chain #41
3	792077	Steel Ball 5/16	19	770061	Case, Transmission
4	772070	Cover, Transmission	20	786061	Sprocket 10 Teeth
5	792073	Hex Head Screw 1/4-20	21	776134	Shaft, Counter
6	780105	Bushing, Flanged	22	784243	Rod & Fork Ass'y.
7	780072	Race, Thrust	23	778112	Gear, Spur 30 Teeth
8	778105	Gear, Spur 20 Teeth	24	778111	Gear, Spur 25 Teeth
9	778106	Gear, Spur 25 Teeth	25	778110	Gear, Spur 20 Teeth
10	778107	Gear, Spur 30 Teeth	26	778109	Gear, Bevel 42 Teeth
11	778108	Gear, Spur 35 Teeth			With 15 Tooth Gear
12	776133	Shaft, Output & Brake	27	788040	Retaining Ring
13	792071	Key	28	778113	Bevel Pinion, Input
14	784216	Collar, Shift	29	780106	Bearing, Needle
15	786060	Sprocket 14 Teeth	30	776135	Shaft, Input
16	786047	Sprocket 8 Teeth	31	792035	Retaining Ring

NOTE: The transmission used on this unit is warranted by the manufacturer. All parts and service must be obtained from the designated TECUMSEH/PEERLESS Service Center, which may be found in the yellow pages under "Engines."



BLADE SPINDLE ASSEMBLY

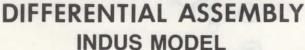
PART NO. 312-202

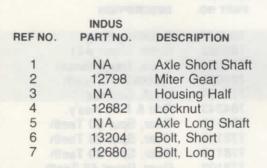


REF NO.	PART NO.	DESCRIPTION
1	313-204	Spindle w/Bearings
2	995-158	Sq. Key 3/16x1
3	243-209	Bearing Only
4	143-204	Pulley 4" O.D.
5	963-298	Nut 3/4 NF Hex Jam

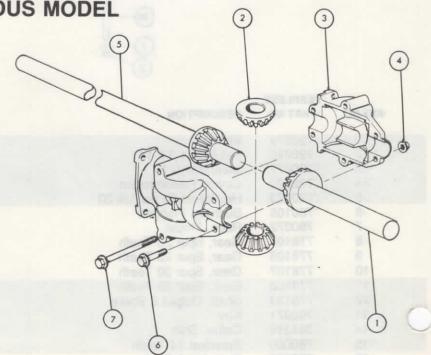
PART NO. 313-205

REF NO.	PART NO.	DESCRIPTION
1	313-206	Shaft Ass'y.
2	313-207	Sleeve
3	313-208	Spindle Housing
4	243-210	Bearing
5	313-209	Spacer
6	143-206	Pulley
7	999-576	Washer
8	999-577	Nut 7/16-20 Lock





NA - No Longer Available, See Note



NOTE: The differential used on this unit is warranted by the manufacturer. Parts listed must be obtained direct from Indus Wheel Co., 1815 Madison Avenue, Indianapolis, Indiana 46206. If parts are not listed, complete unit modified by Sensation should be purchased from

SENSATION

POWER MOWER PARTS LIST

MODELS: 24S5-4

24S5-5 24S5-6

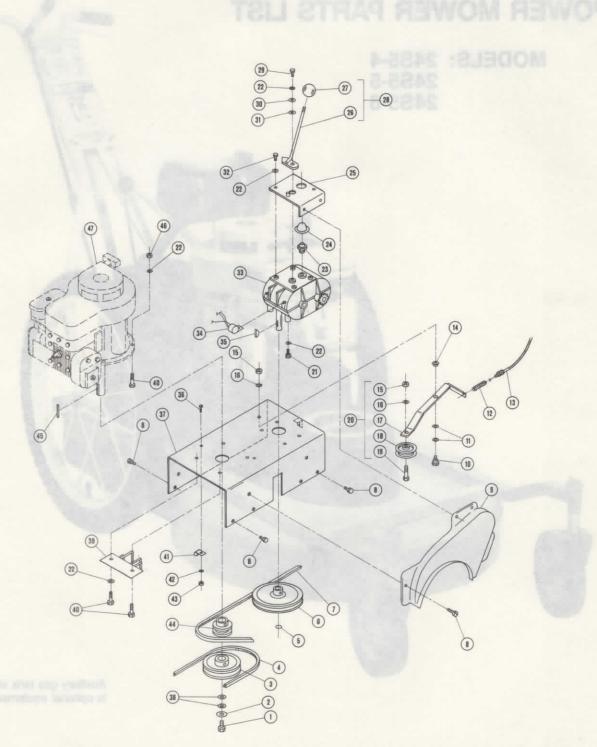


Auxiliary gas tank shown is optional equipment

THE SENSATION CORPORATION • OMAHA, NEBRASKA 68110 USA



ENGINE BASE ASSEMBLY



THE SENSATION CORPORATION . OMAHA, NEBRASKA 68110 USA

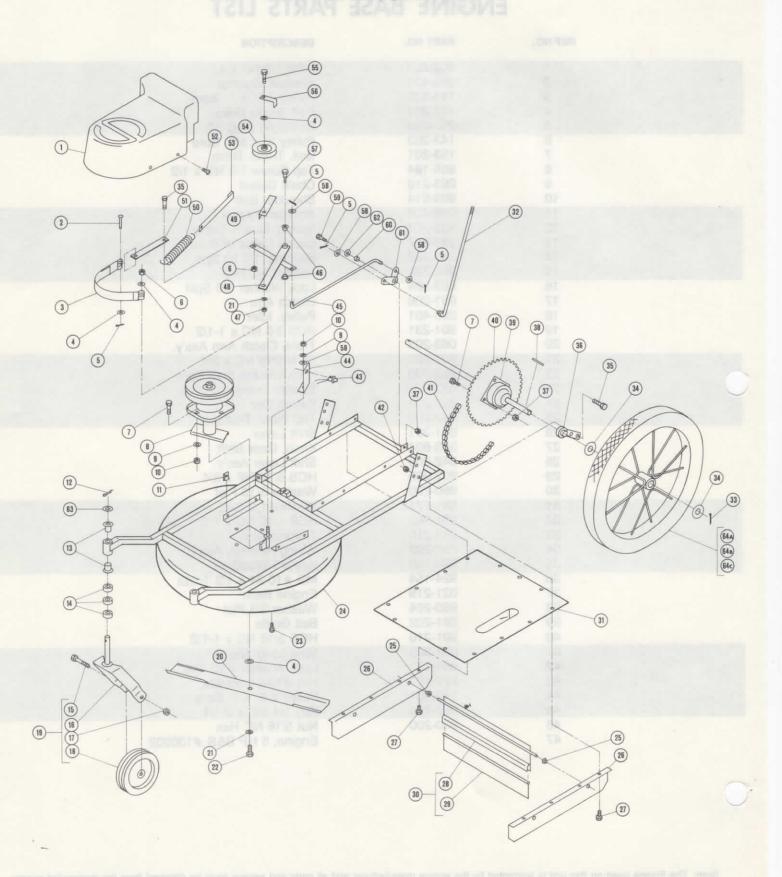


ENGINE BASE PARTS LIST

	REF NO.	PART NO.	DESCRIPTION	
	1 2 3	902-229 999-405 143-305	HCS 3/8 NF x 1 Washer, Special Pulley 4.5" x 1" Bore	
	4	153-203	Belt, Blade Drive	
	5	987-296	Retaining Ring 5/8	
	6	143-203	Pulley 8" x 5/8" Bore	
	7	153-201	Belt, Trans. Drive	
	8	955-184	Tap Screw 1/4 NC x 1/2	
	9	283-210	Chain Guard	
	10	999-514	Shoulder Bolt	
	11	999-458	Acetate Washer	
	12	203-207	Spring, Clutch Cable	
	13	193-217	Clutch Cable W/Nuts	
	14	243-302 960-224	Bushing, 1/2 ID Split	
	15	982-224	Nut 3/8 NC Hex	THE RESERVE AND PROPERTY.
	16 17	061-206	Lock Washer 3/8 Split Clutch Arm	
	18	293-401		
	19	901-231	Pulley, Idler HCS 3/8 NC x 1-1/2	
	20	062-203	Trans Clutch Arm Ass'y.	
	21	901-205	HCS 5/16 NC x 3/4	
	22	982-200	Lock Washer 5/16 Split	
	23	053-201	Switch, Trans.	
	24	323-205	Switch Cap	
	25	042-209	Top Plate, Trans.	
	26	041-201	Shift Lever	
	27	323-804	Knob, Gear Shift	
	28	042-205	Shift Lever Ass'y.	
	29	902-205	HCS 5/16 NF x 3/4	
	30	980-200	Washer 5/16 Flat	
Charles and the same of the sa	31	981-271	Washer 1/2 SAE	ALCOHOL STREET, STREET
	32	901-203	HCS 5/16 NC x 1/2	
	33	043-210	Transmission	
	34	052-203	Wiring Harness Ass'y.	
	35	996-156	Key #9 Woodruff	
The second second second	36	924-154	MS #10-24 x 1/2 Truss	
	37	021-219	Engine Base	
	38	980-224	Washer 3/8 Flat	
	39	281-202	Belt Guide	
	40	901-210	HCS 5/16 NC x 1-1/2	
	41	053-303	Wire Loop, Metal	
	42	984-151	Lock Washer #10 Star	
	43	974-151	Nut #10-24 Square	
	44	143-201	Pulley 2.5" x 1" Bore	
	45	995-194	Key 1/4 Sq. x 2-1/4	
	46	960-200	Nut 5/16 NC Hex	
	47		Engine, 5 HP B&S #130902	



FRAME ASSEMBLY



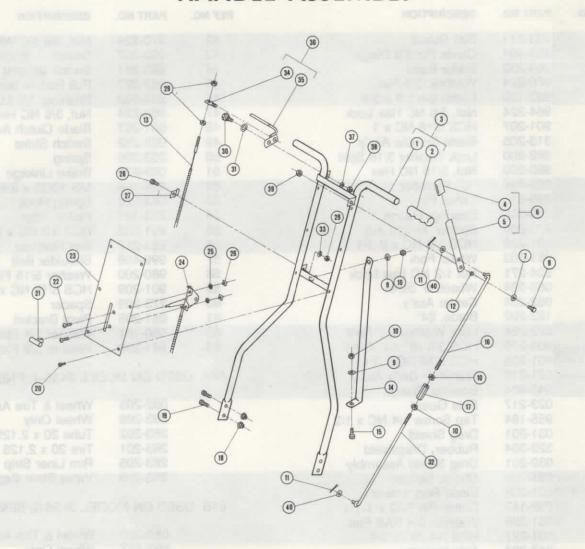


FRAME ASSEMBLY PARTS LIST

		TRANCE ASSE	W.D.L.		CIS LIST	
REF NO.	PART NO.	DESCRIPTION		REF NO	PART NO.	DESCRIPTION
1	283-211	Belt Guard		42	970-224	Nut, 3/8 NC Whizlock
2	993-301	Clevis Pin 3/8 Dia.		43	053-307	Switch — Blade
3	063-232	Brake Band		44	023-251	Switch Bracket
4	980-224	Washer, 3/8 Flat		45	063-227	Pull Rod — Blade
5	992-130	Cotter pin 1/8 x 3/4		46	243-302	Bushing, 1/2 I.D.
6	964-224	Nut, 3/8 NC Hex Lock		47	960-224	Nut, 3/8 NC Hex
7	901-207	HCS 5/16 NC x 1		48	061-207	Blade Clutch Arm
8	313-205	Blade Spindle Ass'y.		49	023-252	Switch Strike
9	982-200	Lock Washer 5/16 Split		50	203-206	Spring
10	960-200	Nut, 5/16 NC Hex		51	063-229	Brake Linkage
11	999-496	"U" Fastener		52	929-156	MS 10/32 x 3/4 Truss
12	999-571	Clinch Pin		53	063-228	Spring Hook
13	243-205	Bearing, Flange		54	293-301	Pulley, Idler
14	273-206	Spacer, Height Adj.		55	901-233	HCS 3/8 NC x 2
15	901-283	HCS 1/2 NC x 2-3/4		56	283-217	Belt Retainer
16	081-203	Wheel Fork		57	999-456	Shoulder Bolt
17	964-271	Nut 1/2 NC Hex Lock		58	980-200	Washer 5/16 Flat
18	083-504	Wheel, 6" Steel		59	901-209	HCS 5/16 NC x 1-1/4
19	082-204	Caster Ass'y.		60	273-209	Spacer
20	123-202	Blade, 24"		61	061-205	Pivot Bracket
21	982-224	Lock Washer 3/8 Split		62	980-181	Washer 1/4 Flat
22	904-229	HCS 3/8 NF x 1, GR 5		63	981-296	Washer 5/8 Flat
23	901-205	HCS 5/16 NC x 3/4				
24	021-218	Frame — Deck Ass'y.		64A	USED ON MO	DEL 24S5-4; PNEU.
25	243-804	Bearing, Flange			000 000	14# 1 0 T
26	023-217	Side Guard			082-203	Wheel & Tire Ass'y.
27	955-184	Tap Screw 1/4 NC x 1/2			083-209	Wheel Only
28	031-201	Drag Shield			263-202	Tube 20 x 2.125
29	323-304	Rubber, Dragshield			263-201	Tire 20 x 2.125
30	032-201	Drag Shield Assembly			263-205	Rim Liner Strip
31	021-209	Shield, Bottom			263-206	Valve Stem Cap
32	061-208	Blade Rod, Lower		GAR	LISED ON MOI	DEL DAGE E CEMI BNELL
33	992-146	Cotter Pin 5/32 x 1-1/4		040	OSED ON MOI	DEL 24S5-5; SEMI PNEU.
34	981-298	Washer, 3/4 SAE Flat			082-209	Wheel & Tire Ass'y.
35	901-227	HCS 3/8 NC x 3/4			083-217	Wheel Only
36 37	243-203	Axle Hanger			263-208	Tire, 20 x 1.75
	964-200	Nut, 5/16 NC Hex Lock			200 200	1110, 20 x 1.70
38	995-160	Sq. Key, 3/16 x 1-1/2		64C I	JSED ON MOI	DEL 24S5-6; FOAM
39 40	043-209	Differential Ass'y.		010	OCED OIL MOL	222 2700 0, 1 071111
41	173-202 162-201	Sprocket 41A54			082-208	Wheel & Tire Ass'y.
41	163-210	Off Set Link #420				
	163-204	Off Set Link #420 Master Link #420				
	103-204					



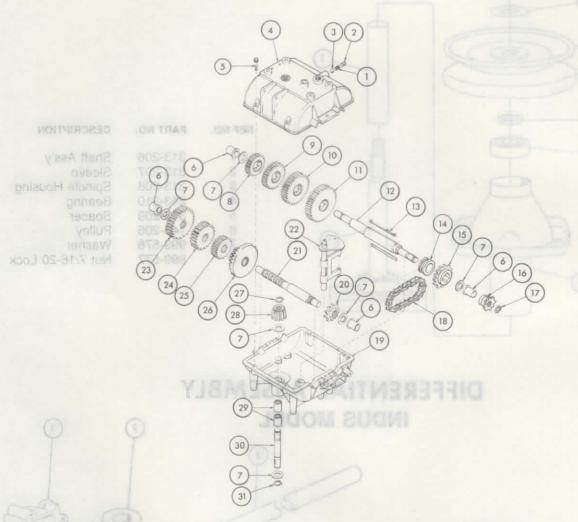
HANDLE ASSEMBLY



	REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION	
	1	252-206	Handle W/Grips	21	323-306	Knob — Shift Lever	
	2	323-317	Grips Smooth (Black)	22	926-154	MS 10/24 x 1/2	
	3	252-206	Handle W/Grips	23	193-218	Control Panel	
	4	323-316	Grip, Flat	24	193-210	Throttle Control	
	5	063-226	Blade Control	25	984-151	Lock Washer #10 Star	
	6	062-204	Blade Control W/Grip	26	974-151	Nut 10/24 Square	
	7	980-181	Washer 1/4 Flat	27	193-219	Cable Clamp	
	8	901-205	HCS 5/16 NC x 3/4	28	901-185	HCS 1/4 NC x 5/8	
	9	982-200	Lock Washer 5/16 Split	29	960-181	Nut 1/4 NC Hex	
	10	960-200	Nut 5/16 NC Hex	30	999-514	Shoulder Bolt	
1030	11	992-130	Cotter Pin 1/8 x 3/4	31	999-416	Machine Bushing 1/2	
	12	273-208	Spacer	32	061-208	Blade Rod, Lower	
	13	193-217	Clutch Cable	33	982-181	Lock Washer 1/4 Split	19
	14	253-213	Handle Brace	34	063-236	Pivot Screw 3/8 NC	
	15	901-210	HCS 5/16 NC x 1-1/2	35	061-209	Clutch Control	
	16	061-210	Blade Rod, Upper	36	062-205	Clutch Control Ass'y.	
	17	999-591	Coupling Nut 5/16 NC	37	982-224	Lock Washer 3/8 Split	
	18	970-224	Nut 3/8 NC Whizlock	38	960-224	Nut 3/8 NC Hex	
	19	901-227	HCS 3/8 NC x 3/4	39	964-200	Nut 5/16 NC Hex Lock	
	6 20	957-140	Tap Screw 8/32 x 3/8	40	980-200	Washer 5/16 Flat	

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TRANSMISSION ASSEMBLY PEERLESS 500 SERIES

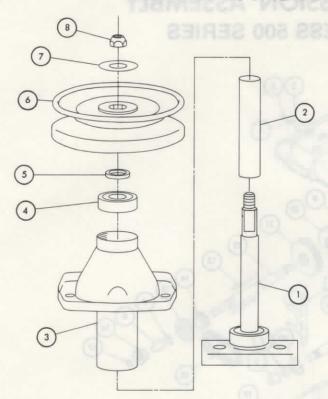


0	REF NO.	PEERLESS PART NO.	DESCRIPTION	REF NO.	PEERLESS PART NO.	DESCRIPTION
	VE 15	792079	Spring	17	792072	Retaining Ring
	2	792078	Set Screw 3/8-16	18	786062	Roller Chain #41
	3	792077	Steel Ball 5/16	19	770061	Case, Transmission
	4	772070	Cover, Transmission	20	786061	Sprocket 10 Teeth
	5	792073	Hex Head Screw 1/4-20	21	776134	Shaft, Counter
	6	780105	Bushing, Flanged	22	784243	Rod & Fork Ass'y.
	7	780072	Race, Thrust	23	778112	Gear, Spur 30 Teeth
	8	778105	Gear, Spur 20 Teeth	24	778111	Gear, Spur 25 Teeth
	9	778106	Gear, Spur 25 Teeth	25	778110	Gear, Spur 20 Teeth
	10	778107	Gear, Spur 30 Teeth	26	778109	Gear, Bevel 42 Teeth
	/ 11	778108	Gear, Spur 35 Teeth			With 15 Tooth Gear
	12	776133	Shaft, Output & Brake	27	788040	Retaining Ring
	13	792071	Key	28	778113	Bevel Pinion, Input
	14	784216	Collar, Shift	29	780106	Bearing, Needle
	15	786060	Sprocket 14 Teeth	30	776135	Shaft, Input
	oelball erei	786047	Sprocket 8 Teeth	31	792035	Retaining Ring

NOTE: The transmission used on this unit is warranted by the manufacturer. All parts and service must be obtained from the designated TECUMSEH/PEERLESS Service Center, which may be found in the yellow pages under "Engines."

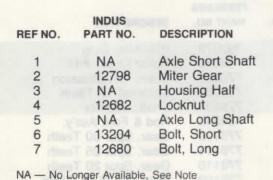


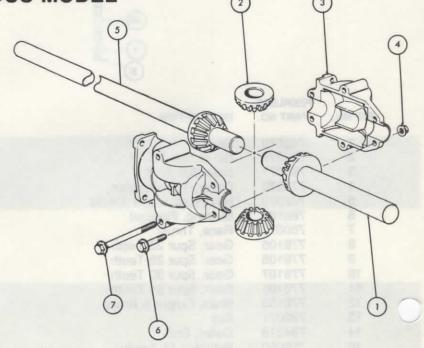
BLADE SPINDLE ASSEMBLY



PART NO.	DESCRIPTION
313-206	Shaft Ass'y.
313-207	Sleeve
313-208	Spindle Housing
243-210	Bearing
313-209	Spacer
143-206	Pulley
999-576	Washer
999-577	Nut 7/16-20 Lock
	313-206 313-207 313-208 243-210 313-209 143-206 999-576

DIFFERENTIAL ASSEMBLY
INDUS MODEL





NOTE: The differential used on this unit is warranted by the manufacturer. Parts listed must be obtained direct from Indus Wheel Co., 1815 Madison Avenue, Indianapolis, Indiana 46206. If parts are not listed, complete unit modified by Sensation should be purchased from

COMMERCIAL

SENSATION

POWER MOWER OWNER'S MANUAL



THE SENSATION CORPORATION . OMAHA, NEBRASKA 68110 USA



SAFETY



Caution Symbol
THE TRIANGULAR SYMBOL SHOWN ABOVE IS
USED THROUGHOUT THIS BOOKLET TO CALL
SPECIAL ATTENTION TO ITEMS AFFECTING THE
OPERATOR'S PERSONAL SAFETY. THESE ITEMS
SHOULD BE GIVEN CLOSE ATTENTION.

- CAUTION: Before leaving the operator's position, shift transmission into Neutral, disengage attachment clutch, and shut off engine.
- 2. Keep all shields in place.
- Wait for all movement to stop before servicing machine.
- Keep people and pets a safe distance away from machine.
- Know the controls and how to stop quickly READ THE OWNER'S MANUAL.
- Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction.
- 7. Do not carry passengers.
- Clear work area of objects which might be picked up and thrown. The blade can throw objects with sufficient force to cause damage or injury.
- Disengage all attachment clutches and shift into Neutral before attempting to start engine.
- Stop engine before leaving operator position and before making any repairs or adjustments.
- Take all possible precautions when leaving vehicle unattended, such as disengaging power take-off, shifting into Neutral, and stopping engine.
- Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of steep slopes, never across the face.
- Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
- Stay alert for holes in terrain and other hidden hazards.
- 15. Handle gasoline with care it is highly flammable.
 - A. Use approved gasoline container.
 - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors.
 - C. Wipe up any spilled gasoline thoroughly before starting the engine.

- D. Open doors if engine is run in garage exhuast fumes are dangerous. Do not run engine indoors.
- Keep vehicle and attachments in good operating condition and keep safety devices in place.
- 17. Keep all nuts, bolts, and screws tight to be sure equipment is in safe working condition.
- Never store equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark.
- 19. Allow engine to cool before storing in any enclosure.
- 20. To reduce fire hazard, keep engine free of grass, leaves, or excessive grease.
- 21. Vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
- Do not change engine governor settings or overspeed engine.
- 23. When using mower:
 - A. Mow only in daylight or in good artificial light.
 - B. Never make a cutting-height adjustment while engine is running.
 - C. Shut engine off when unclogging chute.
 - Check blade-mounting bolts for proper tightness at frequent intervals.
 - E. The blade continues to rotate for a few seconds after the engine is shut off. Do not place any part of the body in the blade area until you are sure the blade has stopped.
 - F. Do not mow on wet grass.
- 24. Do not wear loose-fitting clothing that could get caught in moving parts.
- 25. Follow maintenance instructions as outlined in this manual.
- 26. DISCONNECT THE SPARK PLUG WIRE BEFORE MAKING ANY ADJUSTMENT OR REPAIR.



SET-UP INSTRUCTIONS

HANDLE ASSEMBLY

- Position the handle onto the outside of the handle brackets making sure the six punched holes in the handle face upward. Secure using four hex cap screws 3/8 NC x 3/4 (insert from the outside) and flange lock nuts provided. Finger tighten only.
- Attach the handle brace onto the top of the frame using hex cap screw 5/16 NC x 1-1/2, lock washer, and nut provided. Finger tighten only.
- Attach the brace to the handle threaded stud. (Push the handle up slightly, if necessary). Secure using 5/16 NC nut and lock washer provided.
- 4. Tighten all nuts and bolts installed in steps 1, 2, and 3.

CONTROL PANEL ASSEMBLY

 Remove the protective packing from the control panel. Place the panel on the handle aligning the six mounting holes. Secure using six 8/32 x 3/8 tapping screws provided. Do not overtighten.

BLADE CONTROL ROD ASSEMBLY

- Place one 5/16 NC nut onto both control rods and screw them to the end of the threads.
- Attach the control rod with a painted end to the pivot bracket by inserting the rod from the left side. Secure using flat washer and cotter key provided.
- Place coupling nut onto the lower rod and screw it on approximately 1/2".
- 4. Place the upper control rod into the coupling nut and screw it in approximately 1/2".
- 5. Insert the upper rod into the blade control lever.
- Try the blade control lever to test the tension being exerted. If the tension is too great, remove the upper control rod from the blade control lever and unscrew the coupler nut equally from both rods. If the tension is too little, reverse process.

- Attach the upper control rod to the blade control lever using flat washer and cotter key provided.
- 8. Hold coupling nut with a wrench and tighten both 5/16 nuts against the coupling nut.

CLUTCH CONTROL ASSEMBLY

- Place spring onto the end of the cable housing. Pull the cable with ball out from the spring as far as possible.
- Hold the clutch control arm with your right hand. Slide the cable up into the slot in the clutch arm and pull back on the cable. The cable ball should be tight against the clutch arm.
- 3. Push the cable housing forward placing the spring against the clutch arm. Slide the threaded cable fitting up into the slot of mounting bracket with a nut on each side. The nut on the outside should be threaded all the way back to the end of the threads.
- Tighten the inside nut securely against the bracket. Check to see if the cable and spring are in their proper position and not striking the transmission pulley.
- Remove 1/4 nut from the opposite end and place the threaded fitting into clutch lever pivot bracket and secure with the 1/4 nut removed.
- Adjust for proper belt tension and release (see Adjustment Section).

ENGINE

Follow engine manufacturer's instructions (refer to engine manual provided).

SHIFT LEVER ASSEMBLY

- Remove the bolt, lock washer, and small washer from the shifting shaft on top of the transmission.
 Be sure to leave the large washer in place.
- Place the shift lever onto the shaft with the point towards gear speed selection legend.
- Re-assemble hardware as removed onto the shaft and tighten securely. Do not hammer on the shifting plate or shift lever. The bolt will pull it down in place.



CONTROLS

CONTROLS

The following section is intended to familiarize the operator with the location and function of controls before operating the mower. Check all controls for smooth, un-obstructed action before operating machine.

THROTTLE CONTROL

The throttle control lever controls the speed of the engine and, therefore, on self-propelled models the speed of the mower. Pushing the lever forward, away from the operator, increases engine speed. Pulling the lever back, toward the operator, decreases engine speed. Pull The Throttle Lever Full Back, Toward The Operator to Stop the Engine.

WHEEL DRIVE

The clutch lever mounted on the right hand upper handle, controls the forward motion of the mower. To engage the wheel drive mechanism, pull the clutch lever toward the upper handle. Release the clutch handle to its "neutral" position to stop the forward motion of the mower.

BLADE DRIVE

The blade lever mounted on the left hand upper handle controls the rotation of the cutting blade. To engage the blade mechanism, pull the blade lever toward the upper handle until it self locks itself down. Push the blade lever forward to its neutral position to stop the rotation of the cutting blade.

SHIFT LEVER

Gear selection is made by moving the shift lever handle watching the indicator, and moving it to the desired gear. If the gear shift lever will not advance move the mower back and forth slightly. This causes the gear teeth to mesh properly.

Note: Two electrical interlock devices are provided; one to prevent the engine from starting while the transmission is in gear and one to prevent starting with cutting blade in cut position.



CAUTION: THE ELECTRICAL INTERLOCK SYSTEM IS PROVIDED SPECIFICALLY AS A SAFETY FEATURE AND CARE SHOULD BE TAKEN TO INSURE THAT BOTH SWITCHES FUNCTION PROPERLY AT ALL TIMES. INTERLOCK SYSTEM TEST PROCEDURES ARE CONTAINED IN THE MAINTENANCE SECTION OF THIS BOOKLET.

CUTTING HEIGHT ADJUSTMENT



CAUTION: STOP ENGINE BEFORE MAK-ING ANY WHEEL ADJUSTMENTS.

Your mower can cut grass at heights of 3", 2-1/2", 2", and 1-1/2". Height adjustment is made by adding or removing spacers from the front wheel spindles.

TO ADJUST

 Remove the clinch pin, washer, and wheel assembly from the mower. Remove or add spacers on the wheel spindle shaft according to the cutting height desired.

Zero spacers — 1-1/2" cut

One spacer — 2" cut

Two spacers — 2-1/2" cut

Three spacers — 3" cut

- 3. Reinstall the wheel assembly on the mower.
- Place the remaining spacers (if any) back onto the wheel spindle shaft.
- 5. Secure with washer and clinch pin.



OPERATION



CAUTION: DO NOT OPERATE MOWER WITHOUT DRAG SHIELD ASSEMBLY IN PLACE AND SWINGING FREELY.

PRE-OPERATION CHECK AND SERVICE

Before each period of operation, visually check all nuts, bolts, fasteners, and tires for proper condition.

STARTING



CAUTION: LOCATE MACHINE ON A LEVEL SURFACE BEFORE STARTING TO PREVENT MACHINE FROM ROLLING.

- 1. Place blade control lever in "disengaged" position.
- 2. Place transmission lever in "neutral" position.
- 3. Move throttle control lever to choke position.
- 4. Pull recoil handle briskly until engine starts.
- To stop engine, move throttle control lever to "Stop" position.

MOWING to be self all reveal bearings which and re-

Note: Mow with a sharp blade as a dull blade tends to tear, rather than cut, grass.

- With the engine running, pull the blade control lever to the cut position.
- Move the throttle control lever to a suitable running speed for mowing. Note: For best results, the mower should be operated with the engine at full or nearly full throttle.
- 3. Move shift lever handle, watch indicator and move to the desired gear.

Note: The ground speed is controllable by the transmission speed setting. This setting should be varied depending on the job being performed.

A

CAUTION: WHEN OPERATING MOWER ON BUMPY GROUND, GRADES, OR SLOPES, USE LOWER TRANSMISSION SETTING.

 Pull clutch lever toward upper handle slowly. Release to stop drive mechanism.



CAUTION: MOWER MUST BE AT A FULL STOP BEFORE SHIFTING FROM A FORWARD SPEED TO REVERSE AND FROM REVERSE TO FORWARD! OTHERWISE, SEVERE DAMAGE TO TRANSMISSION MAY OCCUR.



CAUTION: WHEN CROSSING A GRAVEL DRIVEWAY, ROAD, OR SIDEWALK, DISENGAGE CUTTING BLADE SO LOOSE SAND AND ROCKS ARE NOT THROWN.

Locuen the axle hargar bus

TRANSPORTING

- When transporting mower from one area to another, shift to higher gear setting and reduce throttle speed.
- 2. Disengage cutting blade.

GEAR SELECTION RECOMMENDATION

- Reverse . . . For maneuvering machine only. **Not** to be used for mowing.
- 1st Gear . . . Primary mowing gear for tall weeds and grasses. Either walk behind or with riding sulky.
- 2nd Gear . . . Secondary mowing gear for normal grass heights. Primarily used with riding sulky.
- 3rd Gear . . . For transporting machine on level, clear terrain only at reduced throttle speed. Do not use for mowing.

ADJUSTMENTS

BLADE BELT TENSION

Tension is adjusted by adjusting the coupling nut connecting the upper and lower blade control rods.

- 1. Unscrew the 5/16 nuts away from the coupling nut.
- Remove the upper control rod from the blade control lever.
- Screw the coupling nut on (for increased tension) and off (for decreased tension) equally on each rod. Test.
- 4. Repeat step #3 until proper tension is achieved.
- Re-assemble. Be sure the 5/16 nuts are locked against the coupling nut.



DRIVE BELT TENSION

Tension is adjusted by the position of the cable housing and adjusting the threaded fitting attached to the clutch lever pivot bracket.

- Loosen the bottom 1/4 nut on the threaded fitting attached to the clutch lever pivot bracket.
- Turn the top 1/4 nut in a clockwise manner to increase tension and counter clockwise to decrease tension.
- Lock the bottom nut against pivot bracket. Test run.
 Repeat step #4 until proper clutching sequence is
 accomplished. Be sure to lock lower 1/4 nut against
 the pivot bracket.

DRIVE CHAIN TENSION

Chain tension is maintained by the fixed position of the differential.

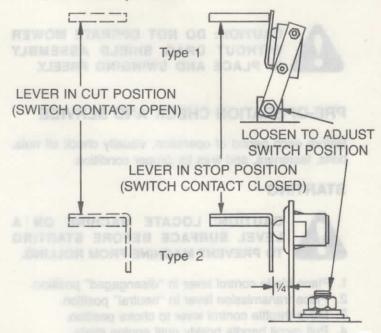
- 1. Remove the chain guard.
- 2. Loosen the axle hanger bearing mounting bolts.
- Move the differential forward until chain is barely snug. You should be able to deflect the chain 1/2 when properly tensioned.
- 4. Securely tighten the axle hanger mounting bolts.

BLADE CUT/STOP LEVER

- Loosen nut as shown.
- With blade control lever in the disengaged position, pivot switch assembly against the idler arm until switch contact closes.
- Hold switch assembly in the closed position and tighten nut.

Note: Do not adjust switch assembly with blade control lever in the cut position. Switch damage will result.

INTERLOCK, BLADE CUT/STOP LEVER



BLADE BRAKE BAND

Brake band will rub on the lower half of the blade spindle when the blade control lever is placed in the disengaged position.

Tension — The brake band is spring loaded when engaged, making it self-adjusting. Therefore, no adjustments are required.

Alignment — There is two-way lock nut installed on the pivot bracket located on the left side of the spindle pulley. This nut aligns the brake band to the pulley. The nut should be tightened down as far as possible and still allow the brake band to pivot freely.

Refer to maintenance section for interlock circuit information.

MAINTENANCE



CAUTION: DISCONNECT SPARK PLUG LEAD PRIOR TO PERFORMING ANY MAINTENANCE.

BLADE SPINDLE

The blade spindle is equipped with sealed precision ball bearings and requires no lubrication. The bearings are replaceable when in need of replacement.

DECK HOUSING

Area beneath deck housing should be clear of matter, grass, or other debris to prevent possible blade interference and to insure best cutting performance.

ENGINE

Follow engine manufacturers' recommendation (refer to engine manual provided).





CAUTION: REPLACE BLADE WHICH SHOWS ANY SIGN OF CRACKS OR CRYS-TALIZATION TO PREVENT ITS DISINTE-GRATION AT HIGH ROTATING SPEEDS.

BLADE

The blade must be kept sharp and in balance to insure best cutting results and top engine performance. Use genuine "Sensation" replacement blades. Substitutes may endanger performance and personal safety.



CAUTION: USE A PAD OR WEAR A HEAVY GLOVE TO PROTECT YOUR HAND WHEN REMOVING OR INSTALLING BLADE.

BLADE REMOVAL/REPLACEMENT

Assemble blade in sequence as illustrated on parts diagram. Tighten blade bolt securely. Bolt should be torqued to 35 ft/LB's.

BLADE SHARPENING

It is recommended that the blade be taken to your Sensation dealer to insure proper sharpening and balancing.

AXLE HANGER BEARINGS

The rear wheel axle hanger bearing are sealed bearings which require no lubrication.

DRIVE CHAIN

Lubrication — Chain should be protected against abrassive and corrosive atmospheres. Periodically brush oil (SAE 10) onto the entire chain, the frequency being determined by the operating conditions.

CHAIN REPLACEMENT

- Remove chain guard and loosen axle hanger bearing mounting bolts.
- Locate master link and remove. Be careful not to bend keeper out of shape.
- Install new chain making sure the keeper snaps tightly in place, seating itself in both pin grooves.
- Adjust for proper tension (see adjustment section) and re-assemble chain guard.

FRONT WHEELS

- Lubricate each wheel bearing (2 each wheel) periodically using a grease gun. Sensation markets a grease gun made special for this purpose.
- Lubricate upper and lower wheel spindle bearing periodically using a light oil (SAE 10).

PIVOT POINTS

 Lubricate transmission control and blade control pivot points using a light oil (SAE 10) periodically depending upon operating conditions.

DIFFERENTIAL

The differential is sealed at the factory and should not require adjustment or lubrication.

ELECTRICAL INTERLOCK TEST PROCEDURE



CAUTION: THE ELECTRICAL INTERLOCK SYSTEM IS PROVIDED SPECIFICALLY AS A SAFETY FEATURE AND CARE SHOULD BE TAKEN TO INSURE THAT BOTH SWITCHES FUNCTION PROPERLY AT ALL TIMES.



CAUTION: REMOVE SPARK PLUG LEAD BEFORE TESTING.

Note: This test requires a circuit testing device (continuity light or meter) generally available at electronic or automotive supply stores.

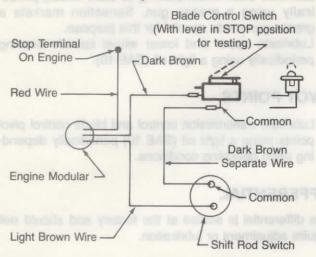
- Remove belt guard from cutting deck to allow access to the blade control switch.
- Place the transmission in neutral and remove the gear shift lever and transmission cover plate.
- With the blade control lever in the disengaged position, verify that the blade control switch lever is in the position shown in the wiring diagram.

Note: If adjustment is required to obtain the proper switch lever position, refer to the adjustment section of this booklet.

4. Test each switch by placing the circuit tester leads onto the terminals that the wires connect to. The circuit testing device should indicate a complete circuit at this time. If it does not, switch is defective and should be replaced.



WIRING DIAGRAM, SWITCHES



BELT REPLACEMENT

Note: Due to the unique characteristics and functions of these belts, only genuine Sensation service parts should be used for replacement to insure proper belt operation.

BLADE DRIVE BELT

- 1. Place blade control lever in the disengaged position.
- Insure that spark plug lead is removed before proceeding.
- Remove belt guard from cutting deck and loosen mounting bolts on belt guides.
- Remove and install new belt. Be sure belt is inside belt guides and that the mounting bolts have been secured.
- Place blade control lever in the cut position. Visually check belts to see that they are not striking any of the belt guides. Adjust guides if necessary.
- 6. Re-assemble belt guard.

TRANSMISSION DRIVE BELT

- 1. Place blade control lever in the disengaged position.
- 2. Insure that the spark plug lead is removed before proceeding.
- Remove belt guard and mounting bolts on engine pulley belt guides only.
- 4. Remove blade belt from engine pulley.
- Remove clutch belt and install new one. Be sure belt is inside belt guides and that the clutch idler pulley is on the outside of the belt.
- Place blade belt back onto engine pulley and tighten securely mounting bolts in the belt guide.
- Place blade control lever in the cut position. Visually check belts to see that they are not striking any of the belt guides. Adjust guides if necessary.
- 8. Test clutch control to see if proper belt tension exists, if not refer to adjustment section.
- 9. Re-assemble belt guard.

BLADE BRAKE BAND

Brake band should be inspected for wear periodically depending on the operator usage of the blade clutch/brake mechanism. Replacement should be made before steel to steel contact is made.

To replace:

- Remove belt guard and place blade control lever in disengaged position.
- Unhook the spring hook from the engine base, releasing spring tension.
- Remove the clevis pin and 2 way lock nut holding the brake band.
- 4. Install new brake band and re-assemble.

TRANSMISSION

The transmission is sealed at the factory and should not require adjustment and/or lubrication.

OPTIONAL EQUIPMENT

RIDING SULKY

Adds comfort plus to the performance. Means less down time due to personal fatigue as compared to conventional walk behind usage.

GREASE GUN KIT

Used for lubricating wheel bearings.

AUXILIARY GAS TANK KIT

Adds 3 quart capacity to your current engine gas tank — means less down time for refilling.

ONE-PIECE SENSATION SUIT

Bright, highway safety orange colored utility jumpsuit. Provides protection for personal clothing and gives a neat, snappy, professional teamwork look.

SKID BARS

Replaces the standard 6" front caster wheel assembly. Used in heavy weeded areas eliminating cut weed accumulation on front end of mower.

SENSATION .

POWER MOWER PARTS LIST

MODEL: 24S5-7

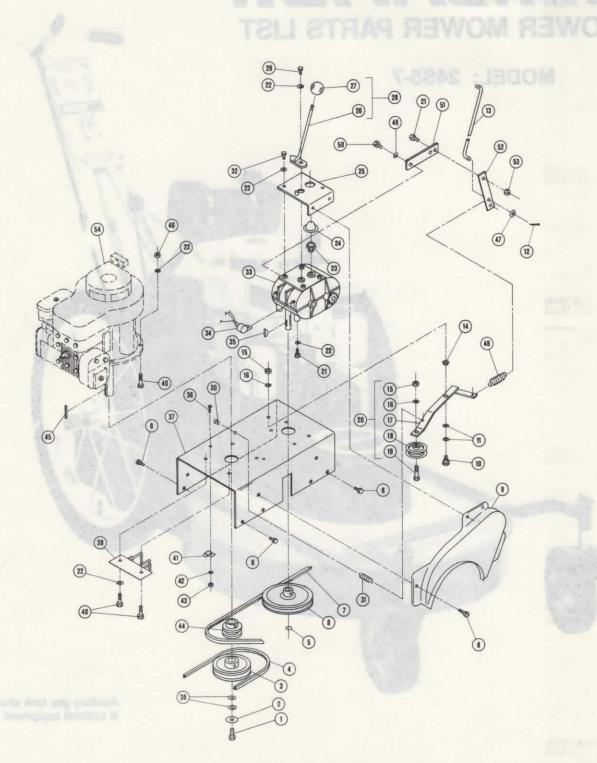


Auxiliary gas tank shown is optional equipment

THE SENSATION CORPORATION • OMAHA, NEBRASKA 68110 USA



ENGINE BASE ASSEMBLY



THE SENSATION CORPORATION . OMAHA, NEBRASKA 68110 USA



ENGINE BASE PARTS LIST

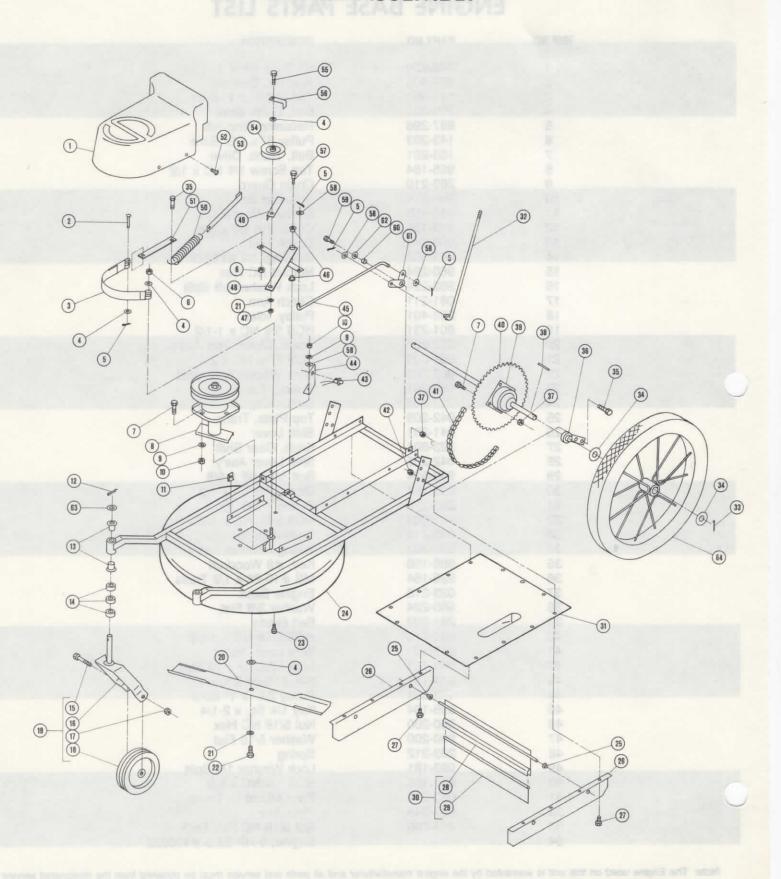
	REF NO.	PART NO.	DESCRIPTION	*
		000 000	UCC 2/9 NF 1	
		902-229	HCS 3/8 NF x 1	
	2 3	999-405 143-305	Washer, Special	
	4	153-203	Pulley 4.5" x 1" Bore Belt, Blade Drive	
PRINCIPLE OF THE PRINCI		987-296	Retaining Ring 5/8	
	5	143-203	Pulley 8" x 5/8" Bore	
	6 7	153-201	Belt, Trans. Drive	
	8	955-184	Tap Screw 1/4 NC x 1/2	
	9	283-210	Chain Guard	
	10	999-514	Shoulder Bolt	
	11	999-458	Acetate Washer	
	12	992-130	Cotter Pin 1/8 x 3/4	
	13	063-243	Clutch Rod	
	14	243-302	Bushing, 1/2 ID Split	
	15	960-224	Nut 3/8 NC Hex	
	16	982-224	Lock Washer 3/8 Split	
	17	061-211	Clutch Arm	
	18	293-401	Pulley, Idler	
	19	901-231	HCS 3/8 NC x 1-1/2	
1959 M. 100 S. 200 M. 4 100 M.	20	062-207	Trans. Clutch Arm Ass'y.	
	21	901-205	HCS 5/16 NC x 3/4	
	22	982-200	Lock Washer 5/16 Split	
	23	053-201	Switch, Trans.	
	24	323-205	Switch Cap	
	25	042-209	Top Plate, Trans.	
The state of the s	26	041-201	Shift Lever	
	27	323-804	Knob, Gear Shift	
1 / V Bla	28	042-205	Shift Lever Ass'y.	
The first first I	29	999-524	Bolt 5/16 NF x 5/8	
	30	993-184	Clevis Pin 1/4 x 1/2	
	31	203-210	Spring 1-3/8" Ext	
	32	901-203	HCS 5/16 NC x 1/2	
	33	043-210	Transmission	
	34	052-203	Wiring Harness Ass'y.	
	35	996-156	Key, #9 Woodruff	
	36	926-154	MS #10-24 x 1/2 Truss	
	37	023-218	Engine Base	
	38	980-224	Washer 3/8 Flat	
Transmission of the last of th	39	281-202	Belt Guide	And the second second
	40	901-210	HCS 5/16 NC x 1-1/2	
	41	053-303	Wire Loop, Metal	
	42	984-151	Lock Washer #10 Star	
	43	974-151	Nut #10-24 Square	
The second secon	44	143-201	Pulley 2.5" x 1" Bore	(2)
	45	995-194	Key 1/4 Sq. x 2-1/4	
	46	960-200	Nut 5/16 NC Hex	
	47	980-200	Washer 5/16 Flat	
	48	203-212	Spring	
DE MOLE TO SEE TO SEE TO	49	982-181 901-185	Lock Washer 1/4 Split	
	50	063-244	HCS 1/4 NC x 5/8	
	51	063-245	Pivot Mount — Trans. Pivot Arm	
	52	964-200		
	53 54	304-200	Nut 5/16 NC Hex Lock	
Particular designation of the latest section	54		Engine, 5 HP B&S #130902	

Note: The Engine used on this unit is warranted by the engine manufacturer and all parts and service must be obtained from the designated service center which may be found in the Yellow Pages under "Engines".

3



FRAME ASSEMBLY



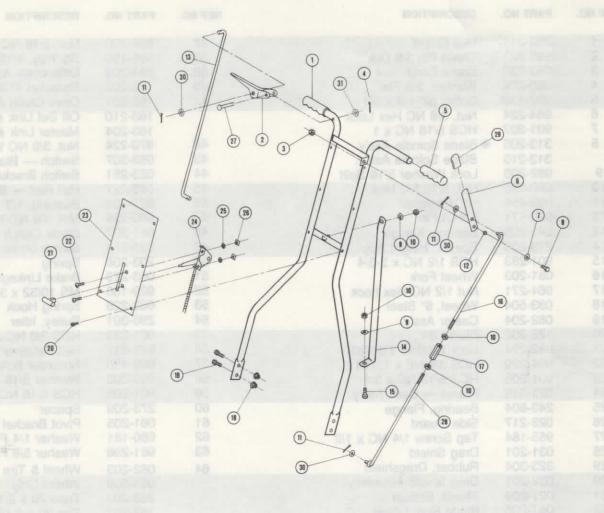


FRAME ASSEMBLY PARTS LIST

	REF NO.	PART NO.	DESCRIPTION	REF NO	D. PART NO.	DESCRIPTION
1000	1	283-211	Belt Guard	37	964-200	Nut, 5/16 NC Hex Lock
	2	993-301	Clevis Pin 3/8 Dia.	38	995-160	Sq. Key, 3/16 x 1-1/2
	3	063-232	Brake Band •	39	043-209	Differential Ass'y.
	4	980-224	Washer, 3/8 Flat	40	173-202	Sprocket 41A54
	5	992-130	Cotter pin 1/8 x 3/4	41	162-201	Drive Chain Ass'y.
-	6	964-224	Nut, 3/8 NC Hex Lock		163-210	Off Set Link #420
	7	901-207	HCS 5/16 NC x 1		163-204	Master Link #420
	8	313-205		42	970-224	Nut, 3/8 NC Whizlock
		313-210	Blade Spindle Ass'y.	43	053-307	Switch — Blade
	9	982-200	Lock Washer 5/16 Split	44	023-251	Switch Bracket
THE SEC	10	960-200	Nut, 5/16 NC Hex	45	063-227	Pull Rod — Blade
	11	999-496	"U" Fastener	46	243-302	Bushing, 1/2 I.D.
	12	999-571	Clinch Pin	47	960-224	Nut, 3/8 NC Hex
	13	243-205	Bearing, Flange	48	061-207	Blade Clutch Arm
	14	273-206	Spacer, Height Adj.	49	023-252	Switch Strike
	15	901-283	HCS 1/2 NC x 2-3/4	50	203-206	Spring
	16	081-203	Wheel Fork	51	063-229	Brake Linkage
	17	964-271	Nut 1/2 NC Hex Lock	52	929-156	MS 10/32 x 3/4 Truss
	18	083-504	Wheel, 6" Steel	53	063-228	Spring Hook
	19	082-204	Caster Ass'y.	54	293-301	Pulley, Idler
THE R.	20	123-202	Blade, 24"	55	901-233	HCS 3/8 NC x 2
	21	982-224	Lock Washer 3/8 Split	56	283-217	Belt Retainer
1000	22	904-229	HCS 3/8 NF x 1, GR 5	57	999-456	Shoulder Bolt
AND S	23	901-205	HCS 5/16 NC x 3/4	58	980-200	Washer 5/16 Flat
	24	021-218	Frame — Deck Ass'y.	59	901-209	HCS 5/16 NC x 1-1/4
	25	243-804	Bearing, Flange	60	273-209	Spacer
	26	023-217	Side Guard	61	061-205	Pivot Bracket
	27	955-184	Tap Screw 1/4 NC x 1/2	62	980-181	Washer 1/4 Flat
	28	031-201	Drag Shield	63	981-296	Washer 5/8 Flat
	29	323-304	Rubber, Dragshield	64	082-203	Wheel & Tire Ass'y.
	30	032-201	Drag Shield Assembly		083-209	Wheel Only
	31	021-209	Shield, Bottom		263-202	Tube 20 x 2.125
	32	061-208	Blade Rod, Lower		263-201	Tire 20 x 2.125
	33	992-146	Cotter Pin 5/32 x 1-1/4		263-205	Rim Liner Strip
	34	981-298	Washer, 3/4 SAE Flat		263-206	Valve Stem Cap
	35	901-227	HCS 3/8 NC x 3/4			
	36	243-203	Ayle Hanger			
			rate Hanger			



HANDLE ASSEMBLY



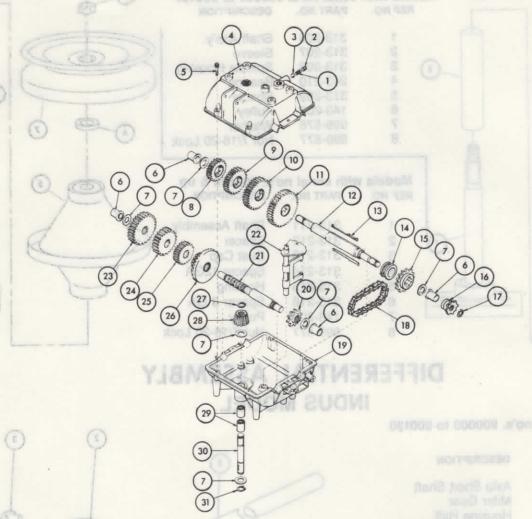
REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION	
1	252-210	Handle W/Grips	16	061-210	Blade Rod, Upper	
2	062-301	Clutch Lever W/Grip	17	999-591	Coupling Nut 5/16 NC	
3	964-200	Nut 5/16 NC Lock	18	970-224	Nut 3/8 NC Whizlock	
4	992-116	Cotter pin 3/32 x 1/2	19	901-227	HCS 3/8 NC x 3/4	
5	323-317	Handle Grips	20	957-140	Tap Screw 8/32 x 3/8	
6	062-204	Blade Control W/Grip	21	323-306	Knob, Throttle	
7	980-181	Washer 1/4 Flat	22	926-154	MS 10/24 x 1/2	
8	901-205	HCS 5/16 NC x 3/4	23	193-218	Control Panel	
8	982-200	Lock Washer 5/16	24	193-210	Throttle Control	
10	960-200	Nut 5/16 NC Hex	25	984-151	Lock Washer #10 Star	
11	992-130	Cotter 1/8 x 3/4	26	974-151	Nut 10/24 Square	
12	273-208	Spacer	27	993-311	Clevis Pin 3/16 x 1-3/4	
13	063-243	Clutch Rod	28	061-208	Blade Rod, Lower	
14	253-213	Handle Brace	29	323-316	Grip — Flat	
15	901-211	HCS 5/16 NC x 1-3/4	30	980-200	Washer 5/16 Flat	
			31	980-151	Washer 3/16 Flat	

NOTE: # Blade Spindle P.N. 313-305 no larger swelchis, Replaced with P.N. 315-210



TRANSMISSION ASSEMBLY PEERLESS 500 SERIES

PART NO. 31G-210

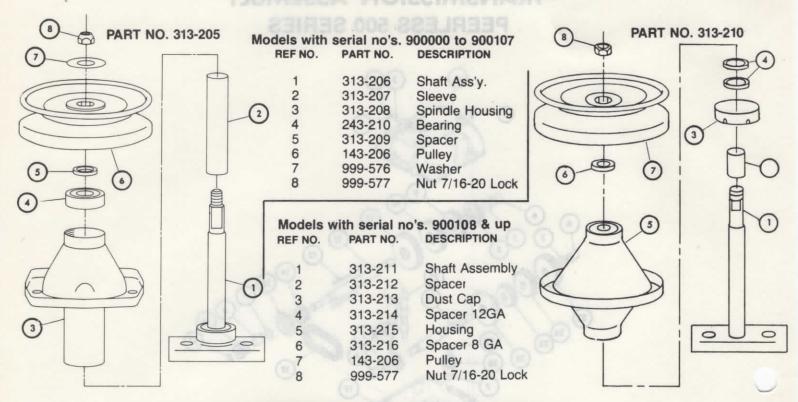


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	REF NO.	PEERLESS PART NO.	DESCRIPTION	REF NO.	PEERLESS PART NO.	DESCRIPTION	
16	01	792079	Spring	17	792072	Retaining Ring	
	2	792078	Set Screw 3/8-16	18	786062	Roller Chain #41	
	3	792077	Steel Ball 5/16	19	770061	Case, Transmission	
	4	772070	Cover, Transmission	20	786061	Sprocket 10 Teeth	
	5	792073	Hex Head Screw 1/4-20	21	776134	Shaft, Counter	
	6	780105	Bushing, Flanged	22	784243	Rod & Fork Ass'y.	
	7	780072	Race, Thrust	23	778112	Gear, Spur 30 Teeth	
	8	778105	Gear, Spur 20 Teeth	24	778111	Gear, Spur 25 Teeth	
	9	778106	Gear, Spur 25 Teeth	25	778110	Gear, Spur 20 Teeth	
	10	778107	Gear, Spur 30 Teeth	26	778109	Gear, Bevel 42 Teeth	
	11	778108	Gear, Spur 35 Teeth			With 15 Tooth Gear	
	12	776133	Shaft, Output & Brake	27	788040	Retaining Ring	
	13	792071	Key	28	778113	Bevel Pinion, Input	
M	14	784216	Collar, Shift	29	780106	Bearing, Needle	
	15	786060	Sprocket 14 Teeth	30	776135	Shaft, Input	
	16	786047	Sprocket 8 Teeth	31	792035	Retaining Ring	

NOTE: The transmission used on this unit is warranted by the manufacturer. All parts and service must be obtained from the designated TECUMSEH/PEERLESS Service Center, which may be found in the yellow pages under "Engines."



BLADE SPINDLE ASSEMBLY



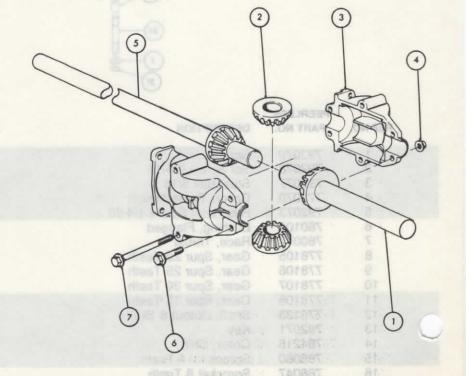
DIFFERENTIAL ASSEMBLY INDUS MODEL

Models with serial no's. 900000 to 900130

REF NO.	INDUS PART NO.	DESCRIPTION
1 2 3 4 5 6 7	NA 12798 N A 12682 NA 13204 12680	Axle Short Shaft Miter Gear Housing Half Locknut Axle Long Shaft Bolt, Short Bolt, Long
NA - No L	onger Available	See Note

Models with serial no's. 900131 & up

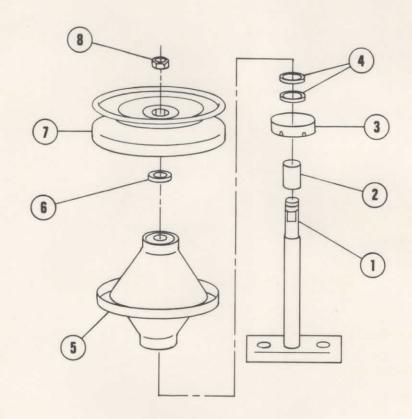
REF NO.	INDUS PART NO.	DESCRIPTION
1 (888	B14729	Axle, Short Shart
2	12798	Miter Gear
3	C14688	Housing Half
4	12682	Locknut
5	B14730	Axle, Long Shaft
6	13204	Bolt, Short
7	12680	Bolt, Long



NOTE: The differential used on this unit is warranted by the manufacturer. Parts listed must be obtained direct from Indus Wheel Co., 1815 Madison Avenue, Indianapolis, Indiana 46206. If parts are not listed, complete unit modified by Sensation should be purchased from



NOTICE: Models 24S5-7 and 14W5-2 are equipped with a different blade spindle than that listed in the parts list. The blade spindle P/N 313-205 has been replaced by blade spindle P/N 313-210, illustrated below.



Item No.	Part No.	Description
1 2 3 4 5	313-211 313-212 313-213 313-214 313-215	Shaft Assembly Spacer Dust Cap Spacer 12GA Housing W/Bearings
6 7 8	313-216 143-206 999-577	Spacer 8 GA Pulley Nut 7/16-20 Lock

COMMERCIAL

SENSATION ...

POWER MOWER PARTS LIST

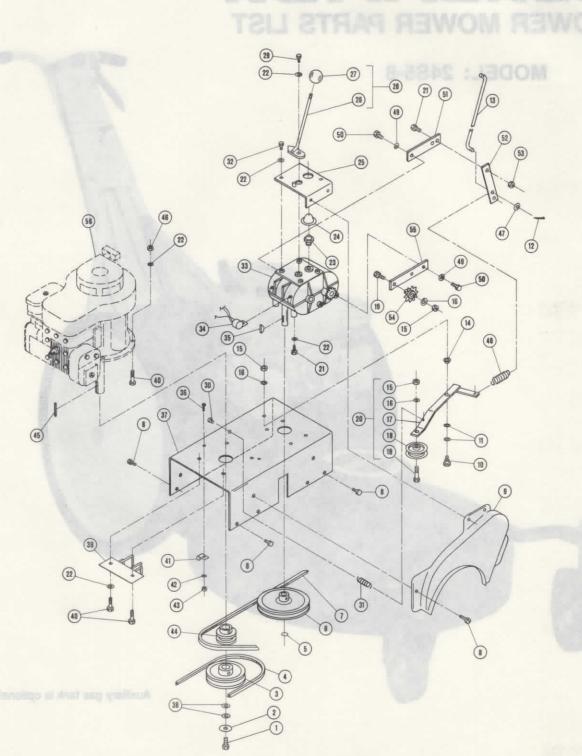


Auxiliary gas tank is optional equipment

THE SENSATION CORPORATION • OMAHA, NEBRASKA 68110 USA



ENGINE BASE ASSEMBLY



THE SENSATION CORPORATION . OMAHA, NEBRASKA 68110 USA



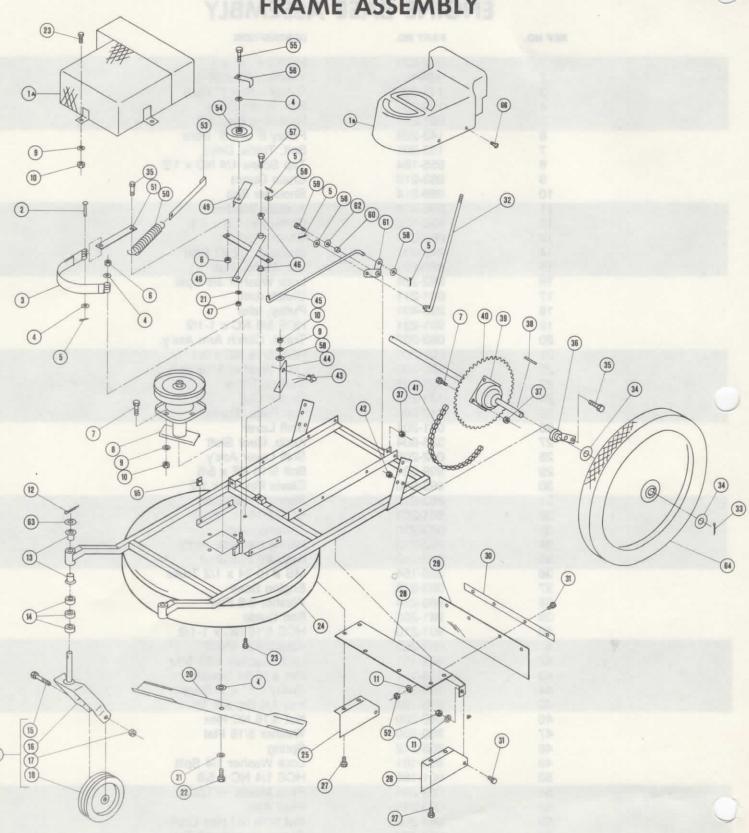
ENGINE BASE ASSEMBLY

	REF NO.	PART NO.	DESCRIPTION	
March Street	Market 1	902-229	HCS 3/8 NF x 1	
	2	999-405	Washer, Special	
	3	143-305	Pulley 4.5" x 1" Bore	
	4	153-203	Belt, Blade Drive	
	5	987-296	Retaining Ring 5/8	
	6	143-203	Pulley 8" x 5/8" Bore	
	7	153-201	Belt, Trans. Drive	
	8	955-184	Tap Screw 1/4 NC x 1/2	
	9	283-210	Chain Guard	
	10	999-514	Shoulder Bolt ·	
	11	999-458	Acetate Washer	
	12	992-130	Cotter Pin 1/8 x 3/4	
	13	063-243	Clutch Rod	
	14	243-302	Bushing, 1/2 ID Split	
	15	960-224	Nut 3/8 NC Hex	
	16	982-224	Lock Washer 3/8 Split	
	17	061-211	Clutch Arm	
	18	293-401	Pulley, Idler	
	19	901-231	HCS 3/8 NC x 1-1/2	
	20	062-207	Trans. Clutch Arm Ass'y.	
	21	901-205	HCS 5/16 NC x 3/4	
	22	982-200	Lock Washer 5/16 Split	
	23	053-201	Switch, Trans.	
	24	323-205	Switch Cap	
AND DESCRIPTION OF THE PARTY OF	25	042-209		
		042-209	Top Plate, Trans. Shift Lever	
	26			
	27	323-804	Knob, Gear Shift	
	28	042-205	Shift Lever Ass'y.	
	29	999-524	Bolt 5/16 NF x 5/8	
	30	993-310	Clevis Pin 1/4 x 1/2	
	31	203-210	Spring 1-3/8" Ext	
	32	901-203	HCS 5/16 NC x 1/2	
	33	043-210	Transmission	
	34	052-203	Wiring Harness Ass'y.	
	35	996-156	Key, #9 Woodruff	
	36	926-154	MS #10-24 x 1/2 Truss	
	37	023-218	Engine Base	
	38	980-224	Washer 3/8 Flat	
	39	281-202	Belt Guide	
	40	901-210	HCS 5/16 NC x 1-1/2	
	41	053-303	Wire Loop, Metal	
	42	984-151	Lock Washer #10 Star	
	43	974-151	Nut #10-24 Square	
	44	143-201	Pulley 2.5" x 1" Bore	
	45	995-194	Key 1/4 Sq. x 2-1/4	
	46	960-200	Nut 5/16 NC Hex	
	47	980-200	Washer 5/16 Flat	
	48	203-212	Spring	
	49	982-181	Lock Washer 1/4 Split	
	50	901-185	HCS 1/4 NC x 5/8	
	51	063-244	Pivot Mount — Trans.	
	52	063-245	Pivot Arm	
	53	964-200	Nut 5/16 NC Hex Lock	
	54	293-207	Sprocket, Idler 10 T	
	55	293-208	Bracket Chain Idler	
	56	200 200	Engine, 5 HP B&S #130902	

Note: The Engine used on this unit is warranted by the engine manufacturer and all parts and service must be obtained from the designated service center which may be found in the Yellow Pages under "Engines".



FRAME ASSEMBLY



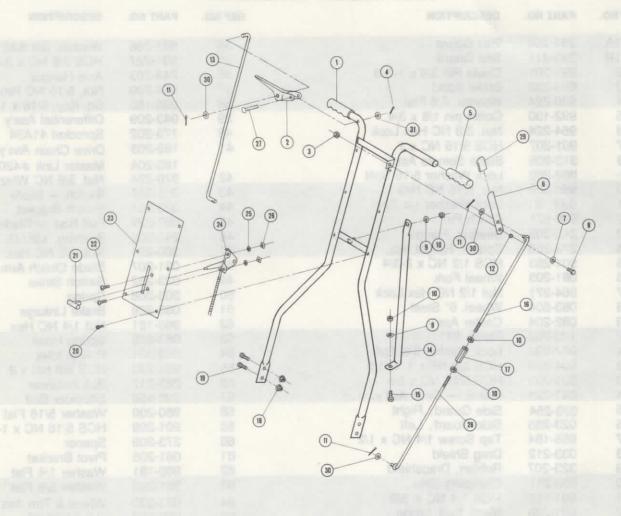


FRAME ASSEMBLY PARTS LIST

REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION	
1A	281-206	Belt Guard	34	981-298	Washer, 3/4 SAE Flat	
1B	283-211	Belt Guard	35	901-227	HCS 3/8 NC x 3/4	
2	993-301	Clevis Pin 3/8 x 1-3/8	36	243-203	Axle Hanger	
3	063-232	Brake Band	37	964-200	Nut, 5/16 NC Hex Lock	
4	980-224	Washer, 3/8 Flat	38	995-160	Sq. Key, 3/16 x 1-1/2	
4 5 6	992-130	Cotter pin 1/8 x 3/4	39	043-209	Differential Ass'y.	
6	964-224	Nut, 3/8 NC Hex Lock	40	173-202	Sprocket 41A54	
7	901-207	HCS 5/16 NC x 1	41	162-203	Drive Chain Ass'y.	
*8	313-205	Blade Spindle Ass'y.		163-204	Master Link #420	
9	982-200	Lock Washer 5/16 Split	42	970-224	Nut, 3/8 NC Whizlock	
10	960-200	Nut, 5/16 NC Hex	43	053-307	Switch — Blade	
11	982-181	Lock Washer 1/4 Split	44	023-251	Switch Bracket	
12	999-571	Clinch Pin	45	063-227	Pull Rod — Blade	
13	243-205	Bearing, Flange	46	243-302	Bushing, 1/2 I.D.	
14	273-206	Spacer, Height Adj.	47	960-224	Nut, 3/8 NC Hex	
15	901-283	HCS 1/2 NC x 2-3/4	48	061-207	Blade Clutch Arm	
16	081-203	Wheel Fork	49	023-252	Switch Strike	
17	964-271	Nut 1/2 NC Hex Lock	50	203-206	Spring	
18	083-504	Wheel, 6" Steel	51	063-229	Brake Linkage	
19	082-204	Caster Ass'y.	52	960-181	Nut 1/4 NC Hex	
20	123-202	Blade, 24"	53	063-228	Spring Hook	
21	982-224	Lock Washer 3/8 Split	54	293-301	Pulley, Idler	
22	904-229	HCS 3/8 NF x 1, GR 5	55	901-233	HCS 3/8 NC x 2	
23	901-205	HCS 5/16 NC x 3/4	56	283-217	Belt Retainer	
24	021-221	Frame — Deck Ass'y.	57	999-456	Shoulder Bolt	
25	023-254	Side Guard, Right	58	980-200	Washer 5/16 Flat	
26	023-255	Side Guard, Left	59	901-209	HCS 5/16 NC x 1-1/4	
27	955-184	Tap Screw 1/4 NC x 1/2	60	273-209	Spacer	
28	033-212	Drag Shield	61	061-205	Pivot Bracket	
29	323-207	Rubber, Dragshield	62	980-181	Washer 1/4 Flat	
30	033-211	Clamping Strip	63	981-296	Washer 5/8 Flat	
31	901-185	HCS 1/4 NC x 5/8	64	083-220	Wheel & Tire Ass'y.	
32	061-208	Blade Rod, Lower	65	999-496	"U" Fastener	
33	992-146	Cotter Pin 5/32 x 1-1/4	66	929-156	MS 10/32 x 3/4 Truss	



HANDLE ASSEMBLY

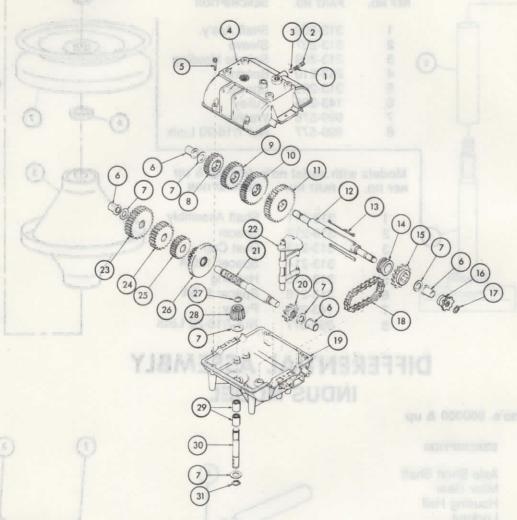


REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION	
HEF NO.	PART NO.	DESCRIPTION	HEF NO.	PART NO.	DESCRIPTION	
1	252-210	Handle W/Grips	16	061-210	Blade Rod, Upper	
2	062-301	Clutch Lever W/Grip	17	999-591	Coupling Nut 5/16 NC	
3	964-200	Nut 5/16 NC Lock	18	970-224	Nut 3/8 NC Whizlock	
4	992-116	Cotter Pin 3/32 x 1/2	19	901-227	HCS 3/8 NC x 3/4	
5	323-317	Handle Grips	20	957-140	Tap Screw 8/32 x 3/8	
6	062-204	Blade Control W/Grip	21	323-306	Knob, Throttle	
7	980-181	Washer 1/4 Flat	22	926-154	MS 10/24 x 1/2	
8	901-205	HCS 5/16 NC x 3/4	23	193-218	Control Panel	
9	982-200	Lock Washer 5/16	24	193-210	Throttle Control	
10	960-200	Nut 5/16 NC Hex	25	984-151	Lock Washer #10 Star	
11	992-130	Cotter 1/8 x 3/4	26	974-151	Nut 10/24 Square	
12	273-208	Spacer	27	993-311	Clevis Pin 3/16 x 1-3/4	-
13	063-243	Clutch Rod	28	061-208	Blade Rod, Lower	1
14	253-213	Handle Brace	29	323-316	Grip — Flat	
15	901-211	HCS 5/16 NC x 1-3/4	30	980-200	Washer 5/16 Flat	
, ,			31	980-151	Washer 3/16 Flat	



TRANSMISSION ASSEMBLY PEERLESS 500 SERIES

PARY NO. 313-210

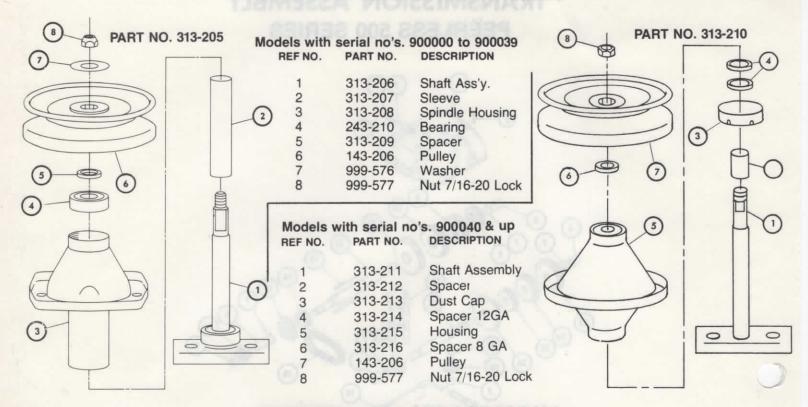


	CIT	PEERLESS			PEERLESS	
	REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
20	1	792079	Spring	17	792072	Retaining Ring
	2	792078	Set Screw 3/8-16	18	786062	Roller Chain #41
	3	792077	Steel Ball 5/16	19	770061	Case, Transmission
	4	772070	Cover, Transmission	20	786061	Sprocket 10 Teeth
	5	792073	Hex Head Screw 1/4-20	21	776134	Shaft, Counter
	6	780105	Bushing, Flanged	22	784243	Rod & Fork Ass'y.
	7	780072	Race, Thrust	23	778112	Gear, Spur 30 Teeth
	8	778105	Gear, Spur 20 Teeth	24	778111	Gear, Spur 25 Teeth
	9	778106	Gear, Spur 25 Teeth	25	778110	Gear, Spur 20 Teeth
	10	778107	Gear, Spur 30 Teeth	26	778109	Gear, Bevel 42 Teeth
	11	778108	Gear, Spur 35 Teeth			With 15 Tooth Gear
	12	776133	Shaft, Output & Brake	27	788040	Retaining Ring
1	13	792071	Key	28	778113	Bevel Pinion, Input
	14	784216	Collar, Shift	29	780106	Bearing, Needle
	15	786060	Sprocket 14 Teeth	30	776135	Shaft, Input
	16	786047	Sprocket 8 Teeth	31	792035	Retaining Ring
		Allientilly stated a	improfunts ligital grant be obtained direct taxo			IN THE REAL PROPERTY AND ADDRESS OF THE PARTY

NOTE: The transmission used on this unit is warranted by the manufacturer. All parts and service must be obtained from the designated TECUMSEH/PEERLESS Service Center, which may be found in the yellow pages under "Engines."



BLADE SPINDLE ASSEMBLY



DIFFERENTIAL ASSEMBLY INDUS MODEL

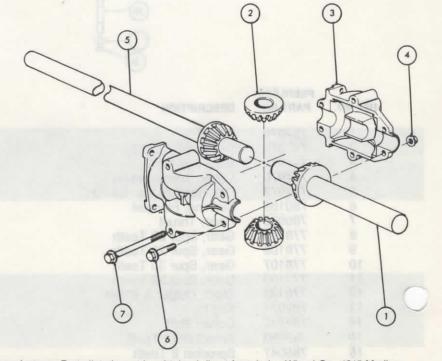
Models with serial no's. 900000 & up

REF NO.	INDUS PART NO.	DESCRIPTION
1	NA	Axle Short Shaft
2	12798	Miter Gear
3	NA	Housing Half
4	12682	Locknut
5	NA	Axle Long Shaft
6	13204	Bolt, Short
7	12680	Bolt, Long
NA - No L	onger Available	, See Note

The Longer Artandolo, God Hote

Models with serial no's.000001 & up

REF NO.	INDUS PART NO.	DESCRIPTION
1 1	B14729	Axle, Short Shaft
2	12798	Miter Gear
3	C14688	Housing Half
4	12682	Locknut
5	B14730	Axle, Long Shaft
6	13204	Bolt, Short
7	12680	Bolt, Long



NOTE: The differential used on this unit is warranted by the manufacturer. Parts listed must be obtained direct from Indus Wheel Co., 1815 Madison Avenue, Indianapolis, Indiana 46206. If parts are not listed, complete unit modified by Sensation should be purchased from

8 The Sensation Corp. P/N 043-209.

SENSATION

POWER MOWER PARTS LIST

MODELS: 24S5-9

24\$5-10

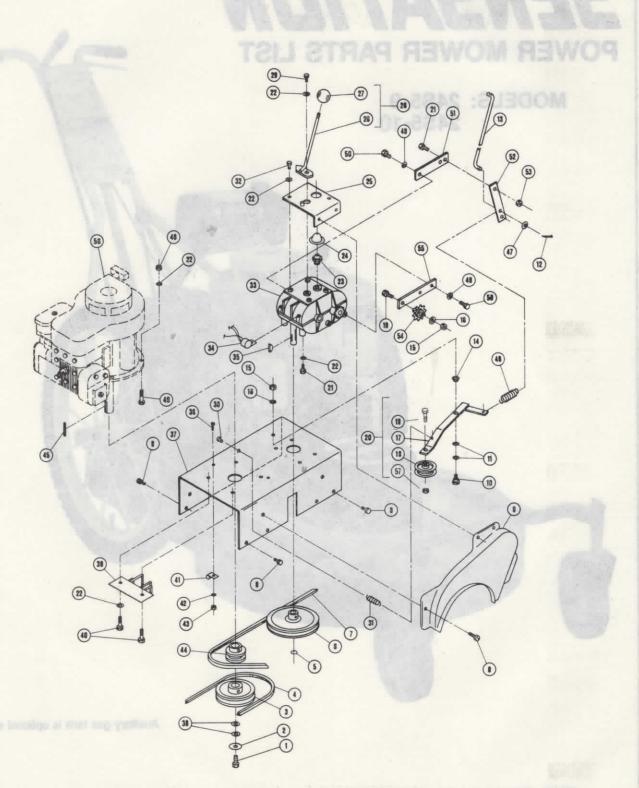


Auxiliary gas tank is optional equipment

THE SENSATION CORPORATION • OMAHA, NEBRASKA 68110 USA



ENGINE BASE ASSEMBLY



THE SENSATION CORPORATION . OMAHA, NEBRASKA 68110 USA

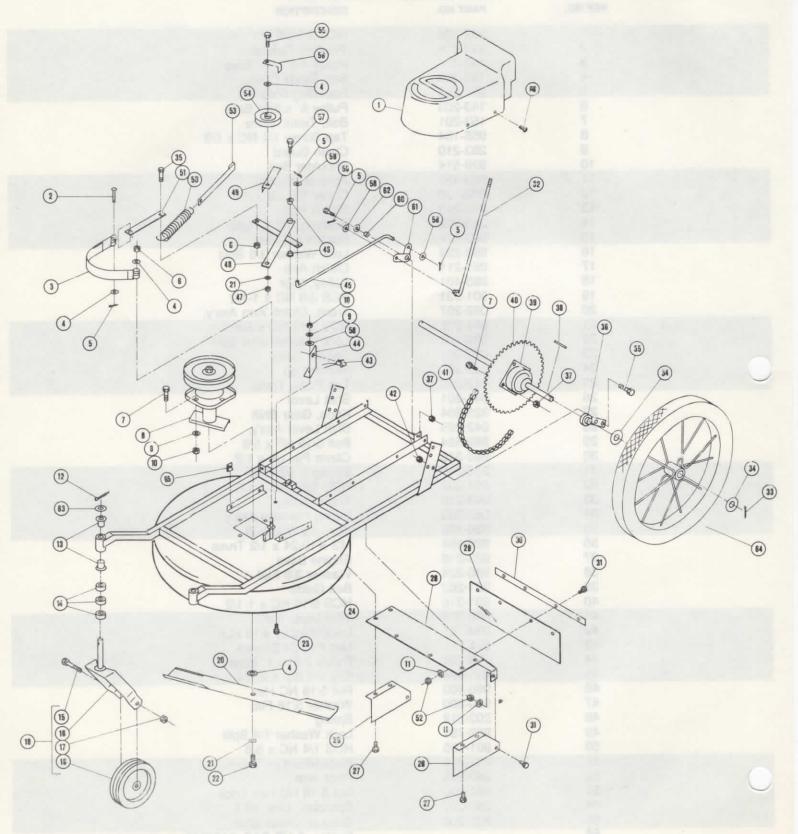


ENGINE BASE ASSEMBLY

	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	902-229 999-405 143-305 153-203 987-296 143-203 153-201 955-184 283-210 999-514 999-458 992-130 063-243 243-302 960-224 982-224 061-211 293-401	HCS 3/8 NF x 1 Washer, Special Pulley 4.5" x 1" Bore Belt, Blade Drive Retaining Ring 5/8 Pulley 8" x 5/8" Bore Belt, Trans. Drive Tap Screw 1/4 NC x 1/2 Chain Guard Shoulder Bolt Acetate Washer Cotter Pin 1/8 x 3/4 Clutch Rod Bushing, 1/2 ID Split Nut 3/8 NC Hex Lock Washer 3/8 Split	
	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	143-305 153-203 987-296 143-203 153-201 955-184 283-210 999-514 999-458 992-130 063-243 243-302 960-224 982-224 061-211	Washer, Special Pulley 4.5" x 1" Bore Belt, Blade Drive Retaining Ring 5/8 Pulley 8" x 5/8" Bore Belt, Trans. Drive Tap Screw 1/4 NC x 1/2 Chain Guard Shoulder Bolt Acetate Washer Cotter Pin 1/8 x 3/4 Clutch Rod Bushing, 1/2 ID Split Nut 3/8 NC Hex	
	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	143-305 153-203 987-296 143-203 153-201 955-184 283-210 999-514 999-458 992-130 063-243 243-302 960-224 982-224 061-211	Pulley 4.5" x 1" Bore Belt, Blade Drive Retaining Ring 5/8 Pulley 8" x 5/8" Bore Belt, Trans. Drive Tap Screw 1/4 NC x 1/2 Chain Guard Shoulder Bolt Acetate Washer Cotter Pin 1/8 x 3/4 Clutch Rod Bushing, 1/2 ID Split Nut 3/8 NC Hex	
	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	153-203 987-296 143-203 153-201 955-184 283-210 999-514 999-458 992-130 063-243 243-302 960-224 982-224 061-211	Belt, Blade Drive Retaining Ring 5/8 Pulley 8" x 5/8" Bore Belt, Trans. Drive Tap Screw 1/4 NC x 1/2 Chain Guard Shoulder Bolt Acetate Washer Cotter Pin 1/8 x 3/4 Clutch Rod Bushing, 1/2 ID Split Nut 3/8 NC Hex	
	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	987-296 143-203 153-201 955-184 283-210 999-514 999-458 992-130 063-243 243-302 960-224 982-224 061-211	Retaining Ring 5/8 Pulley 8" x 5/8" Bore Belt, Trans. Drive Tap Screw 1/4 NC x 1/2 Chain Guard Shoulder Bolt Acetate Washer Cotter Pin 1/8 x 3/4 Clutch Rod Bushing, 1/2 ID Split Nut 3/8 NC Hex	
	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	143-203 153-201 955-184 283-210 999-514 999-458 992-130 063-243 243-302 960-224 982-224 061-211	Pulley 8" x 5/8" Bore Belt, Trans. Drive Tap Screw 1/4 NC x 1/2 Chain Guard Shoulder Bolt Acetate Washer Cotter Pin 1/8 x 3/4 Clutch Rod Bushing, 1/2 ID Split Nut 3/8 NC Hex	
	7 8 9 10 11 12 13 14 15 16 17 18 19 20	153-201 955-184 283-210 999-514 999-458 992-130 063-243 243-302 960-224 982-224 061-211	Belt, Trans. Drive Tap Screw 1/4 NC x 1/2 Chain Guard Shoulder Bolt Acetate Washer Cotter Pin 1/8 x 3/4 Clutch Rod Bushing, 1/2 ID Split Nut 3/8 NC Hex	
	8 9 10 11 12 13 14 15 16 17 18 19 20	955-184 283-210 999-514 999-458 992-130 063-243 243-302 960-224 982-224 061-211	Tap Screw 1/4 NC x 1/2 Chain Guard Shoulder Bolt Acetate Washer Cotter Pin 1/8 x 3/4 Clutch Rod Bushing, 1/2 ID Split Nut 3/8 NC Hex	
	9 10 11 12 13 14 15 16 17 18 19 20	283-210 999-514 999-458 992-130 063-243 243-302 960-224 982-224 061-211	Chain Guard Shoulder Bolt Acetate Washer Cotter Pin 1/8 x 3/4 Clutch Rod Bushing, 1/2 ID Split Nut 3/8 NC Hex	
	10 11 12 13 14 15 16 17 18 19 20	999-514 999-458 992-130 063-243 243-302 960-224 982-224 061-211	Chain Guard Shoulder Bolt Acetate Washer Cotter Pin 1/8 x 3/4 Clutch Rod Bushing, 1/2 ID Split Nut 3/8 NC Hex	
	11 12 13 14 15 16 17 18 19 20	999-514 999-458 992-130 063-243 243-302 960-224 982-224 061-211	Shoulder Bolt Acetate Washer Cotter Pin 1/8 x 3/4 Clutch Rod Bushing, 1/2 ID Split Nut 3/8 NC Hex	
	11 12 13 14 15 16 17 18 19 20	999-458 992-130 063-243 243-302 960-224 982-224 061-211	Acetate Washer Cotter Pin 1/8 x 3/4 Clutch Rod Bushing, 1/2 ID Split Nut 3/8 NC Hex	
	12 13 14 15 16 17 18 19 20	992-130 063-243 243-302 960-224 982-224 061-211	Cotter Pin 1/8 x 3/4 Clutch Rod Bushing, 1/2 ID Split Nut 3/8 NC Hex	
	13 14 15 16 17 18 19 20	063-243 243-302 960-224 982-224 061-211	Clutch Rod Bushing, 1/2 ID Split Nut 3/8 NC Hex	
	14 15 16 17 18 19 20	243-302 960-224 982-224 061-211	Bushing, 1/2 ID Split Nut 3/8 NC Hex	
	15 16 17 18 19 20	960-224 982-224 061-211	Nut 3/8 NC Hex	
	16 17 18 19 20	982-224 061-211		
	17 18 19 20	061-211	Lock Washer 3/8 Split	
	18 19 20			
	19 20		Clutch Arm	
	19 20		Pulley, Idler	
	20	901-231	HCS 3/8 NC x 1-1/2	
		062-207	Trong Chitab Arm And	
			Trans. Clutch Arm Ass'y.	
	21	901-205	HCS 5/16 NC x 3/4	
	22	982-200	Lock Washer 5/16 Split	
	23	053-201	Switch, Trans.	
	24	323-205	Switch Cap	
	25	042-209	Top Plate, Trans.	
	26	041-201	Shift Lever	
	27	323-804	Knob, Gear Shift	
	28		Chit I area Assista	
		042-205	Shift Lever Ass'y.	
	29	999-524	Bolt 5/16 NF x 5/8	
The second second	30	993-310	Clevis Pin 1/4 x 1/2	
	31	203-210	Spring 1-3/8" Ext	
	32	901-203	HCS 5/16 NC x 1/2	
	33	043-210	Transmission	
	34	052-203	Wiring Harness Ass'y.	
	35	996-156		
	36		Key, #9 Woodruff	
		926-154	MS #10-24 x 1/2 Truss	
	37	023-218	Engine Base	
	38	980-224	Washer 3/8 Flat	
	39	281-202	Belt Guide	
	40	901-210	HCS 5/16 NC x 1-1/2	
	41	053-303	Wire Loop, Metal	
	42	984-151	Lock Washer #10 Star	
	43	974-151		
			Nut #10-24 Square	
	44	143-201	Pulley 2.5" x 1" Bore	
	45	995-194	Key 1/4 Sq. x 2-1/4	
	46	960-200	Nut 5/16 NC Hex	
	47	980-200	Washer 5/16 Flat	
	48	203-212	Spring	
	49	982-181	Lock Washer 1/4 Split	
	50			
	51	901-185	HCS 1/4 NC x 5/8	
		063-244	Pivot Mount — Trans.	
	52	063-245	Pivot Arm	
	53	964-200	Nut 5/16 NC Hex Lock	
	54	293-207	Sprocket, Idler 10 T	
	55	293-208	Bracket Chain Idler	
		200 200	Didoket Origin luier	
	56		Engine, 5 HP B&S #130902	



FRAME ASSEMBLY



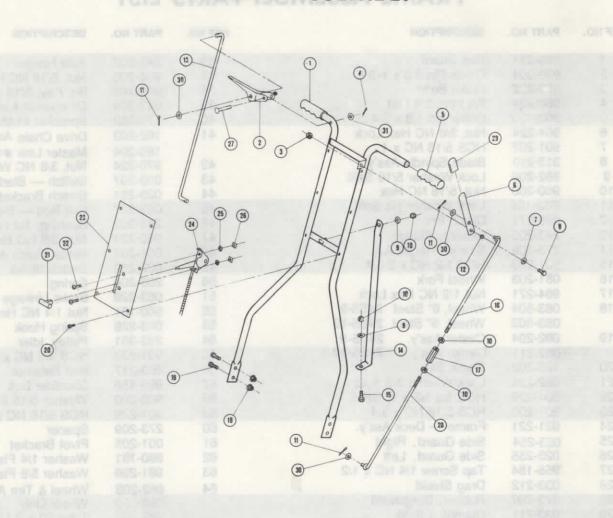


FRAME ASSEMBLY PARTS LIST

	REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
	1	283-211	Belt Guard	36	243-203	Axle Hanger
	2	993-301	Clovis Pin 3/3 x 1-3/8	37	964-200	Nut, 5/16 NC Hex Lock
	3	0€3-202	Brake Band	38	995-160	Sq. Key, 3/16 x 1-1/2
	4	980-224	Washer, 3/8 Flat	39	043-209	Differential Ass'y.
	5	992-130	Cotter pin 1/8 x 3/4	40	173-202	Sprocket 41A54
	6	964-224	Nut, 3/8 NC Hex Lock	41	162-203	Drive Chain Ass'y.
	7	901-207	HCS 5/16 NC x 1		163-204	Master Link #420
	8	313-210	Blade Spindle Ass'y.	42	970-224	Nut, 3/8 NC Whizlock
	9	982-200	Lock Washer 5/16 Split	43	053-307	Switch — Blade
	10	960-200	Nut, 5/16 NC Hex	44	023-251	Switch Bracket
	11	982-181	Lock Washer 1/4 Split	45	063-227	Pull Rod — Blade
	12	999-571	Clinch Pin	46	243-302	Bushing, 1/2 I.D.
	13	243-205	Bearing, Flange	47	960-224	Nut, 3/8 NC Hex
	14	273-206	Spacer, Height Adj.	48	061-207	Blade Clutch Arm
	15	901-283	HCS 1/2 NC x 2-3/4	49	023-252	Switch Strike
10000000	16	081-203	Wheel Fork	50	203-206	Spring
	17	964-271	Nut 1/2 NC Hex Lock	51	063-229	Brake Linkage
	18	083-504	Wheel, 6" Steel 24S5-9	52	960-181	Nut 1/4 NC Hex
		083-302	Wheel, 5" Steel 24S5-10	53	063-228	
	19	082-204	Caster Ass'y. 2435-9	54	293-301	Spring Hook
STATE OF THE PARTY OF	10	082-211	Caster Ass'y 24S5-10	55	901-233	Pulley, Idler
NAME OF TAXABLE	20	123-202	Blade, 24"	56	283-217	HCS 3/8 NC x 2
	21	982-224	Lock Washer 3/8 Split	57	999-456	Belt Retainer
THE COL	22	904-229	HCS 3/8 NF x 1, GR 5	58		Shoulder Bolt
	23	901-205	HCS 5/16 NC x 3/4	59	980-200	Washer 5/16 Flat
RESERVED IN	24	021-221	Frame — Deck Ass'y.	60	901-209	HCS 5/16 NC x 1-1/4
	25	023-254	Side Guard, Right		273-209	Spacer
	26	023-254	Side Guard, Fight	61	061-205	Pivot Bracket
	27	955-184	Tap Screw 1/4 NC x 1/2	62	980-181	Washer 1/4 Flat
	28	033-212		63	981-296	Washer 5/8 Flat
	29	323-207	Drag Shield	64	082-203	Wheel & Tire Ass'y.
	30		Rubber, Dragshield		083-209	Wheel Only
	31	033-211	Clamping Strip		263-202	Tube 20 x 2.125
		901-185	HCS 1/4 NC x 5/8		263-201	Tire 20 x 2.125
	32	061-208	Blade Rod, Lower		263-205	Rim Liner Strip
	33	992-146	Cotter Pin 5/32 x 1-1/4		233-206	Valve Stem Cap
	34	981-298	Washer, 3/4 SAE Flat	65	999-496	"U" Fastener
	35	901-227	HCS 3/8 NC x 3/4	66	929-156	MS 10/32 x 3/4 Truss



HANDLE ASSEMBLY

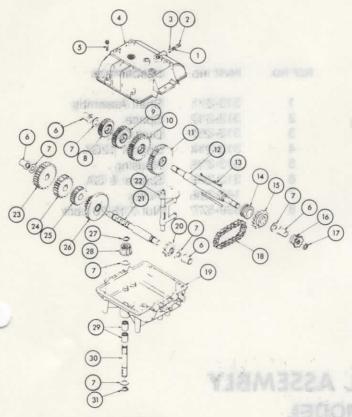


REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION	
1	252-210	Handle W/Grips	16	061-210	Blade Rod, Upper	
2	062-301	Clutch Lever W/Grip	17	999-591	Coupling Nut 5/16 NC	
3	964-200	Nut 5/16 NC Lock	18	970-224	Nut 3/8 NC Whizlock	
4	992-116	Cotter Pin 3/32 x 1/2	19	901-227	HCS 3/8 NC x 3/4	
5	323-317	Handle Grips	20	957-140	Tap Screw 8/32 x 3/8	
6	062-204	Blade Control W/Grip	21	323-306	Knob, Throttle	
7	980-181	Washer 1/4 Flat	22	926-154	MS 10/24 x 1/2	
8	901-205	HCS 5/16 NC x 3/4	23	193-218	Control Panel	
9	982-200	Lock Washer 5/16	24	193-210	Throttle Control	
10	960-200	Nut 5/16 NC Hex	25	984-151	Lock Washer #10 Star	
11	992-130	Cotter 1/8 x 3/4	26	974-151	Nut 10/24 Square	
12	273-208	Spacer	27	993-311	Clevis Pin 3/16 x 1-3/4	
13	063-243	Clutch Rod	28	061-208	Blade Rod, Lower	-
14	253-213	Handle Brace	29	323-316	Grip — Flat	18
15	901-211	HCS 5/16 NC x 1-3/4	30	980-200	Washer 5/16 Flat	
			31	980-151	Washer 3/16 Flat	



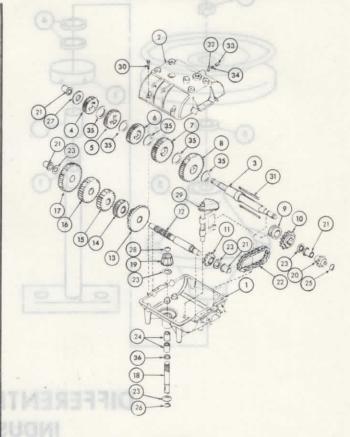
TRANSMISSION ASSEMBLY

PEERLESS 500 SERIES



1 792079 Spring 2 792078 Set Screw 3/8 3 792077 Steel Ball 5/16 4 772070 Cover, Transm 5 792073 Hex Head Scr 6 780105 Bushing, Flan 7 780072 Race, Thrust 8 778105 Gear, Spur 20 9 778106 Gear, Spur 20 10 778107 Gear, Spur 30 11 778108 Gear, Spur 30 12 776133 Shaft, Output 14 784216 Collar, Shift 15 786060 Sprocket 14 Te 16 786047 Sprocket 14 Te 17 792072 Retaining Ring 18 786062 Roller Chain & 19 770061 Case, Transm 20 786061 Sprocket 10 Te 21 776134 Shaft, Counter 22 784243 Rod & Fork Az 23 778112 Gear, Spur 30	ON
9 778106 Gear, Spur 25 10 778107 Gear, Spur 35 11 778108 Gear, Spur 35 12 776133 Shaft, Output 13 782071 Key 14 784216 Collar, Shift 15 786060 Sprocket 14 Te 16 786047 Sprocket 8 Te 17 792072 Retaining Ring 18 786062 Roller Chain & 19 770061 Case, Transmi 20 786061 Sprocket 10 Te 21 776134 Shaft, Counter 22 784243 Rod & Fork As	6 nission rew 1/4-20
12 776133 Shaft, Output 13 792071 Key 14 784216 Collar, Shift 15 786060 Sprocket 14 TE 16 786047 Sprocket 8 Te 17 792072 Retaining Ring 18 786062 Roller Chain & 19 770061 Case, Transmi 20 786061 Sprocket 10 Te 21 776134 Shaft, Counted 22 784243 Rod & Fork As	0 Teeth 5 Teeth
16 786047 Sprocket 8 Ter 17 792072 Retaining Ring 18 786062 Roller Chain # 19 770061 Case, Transmi 20 786061 Sprocket 10 Te 21 776134 Shaft, Counter 22 784243 Rod & Fork As	& Brake
21 776134 Shaft, Counter 22 784243 Rod & Fork As	eeth g #41
The state of the s	er Ass'y. D Teeth
24 778111 Gear, Spur 25 25 778110 Gear, Spur 20 26 778109 Gear, Bevel 4: With 15 Tooth 27 788040 Retaining Rinc	7 Teeth 12 Teeth 1 Gear
27 788040 Retaining Ring 28 778113 Bevel Pinion, 29 780106 Bearing, Need 30 776135 Shaft, Input 31 792035 Retaining Ring	Input dle

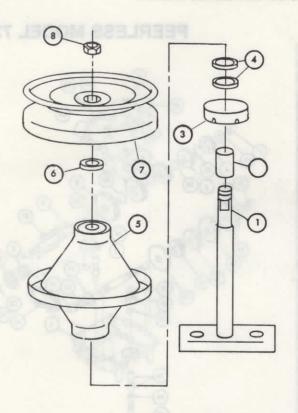
PEERLESS MODEL 731



REF NO.	PEERLESS PART NO.	DESCRIPTION
REF NO. 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 22 4 25 26 27 28 29 30 31 32 33 34 4	PART NO. 770061 772070 776166 778121A 778122 778123 778124 778125 784266 786083 786082 776134 778109 778126 778128 778129 778128 778129 778127 778128 778129 778129 778129 778129 778129 778129 778127 778129 778129 778129 778127 778129 778129 778127 778127 778129 7781	Case, Transmission Cover, Transmission Cover, Transmission Shaft, Output Gear, Spur 20 Teeth Gear, Spur 22 Teeth Gear, Spur 25 Teeth Gear, Spur 30 Teeth Gear, Spur 35 Teeth Collar, Shift Sprocket 18 Teeth Sprocket 18 Teeth Sprocket 9 Teeth Spur 25 Teeth Gear, Spur 20 Teeth Gear, Spur 26 Teeth Gear, Spur 28 Teeth Gear, Spur 28 Teeth Gear, Spur 30 Teeth Sprocket 8 Teeth Bushing, Flanged Roller Chain #41 Race, Thrust Bearing, Needle Retaining Ring
35 36	780108 792001	Washer, Thrust Ring, Square Cut



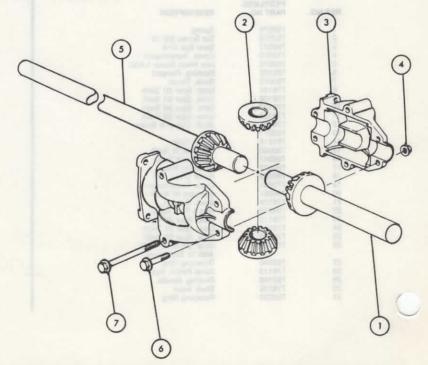
BLADE SPINDLE ASSEMBLY



REF NO.	PART NO.	DESCRIPTION
1.	313-211	Shaft Assembly
2	313-212	Spacer
3	313-213	Dust Cap
4	313-214	Spacer 12GA
5	313-215	Housing
6	313-216	Spacer 8 GA
7	143-206	Pulley
8	999-577	Nut 7/16-20 Lock

DIFFERENTIAL ASSEMBLY INDUS MODEL

INDUS PART NO.	DESCRIPTION
B14729	Axle, Short Shaft
12798	Miter Gear
C14688	Housing Half
12682	Locknut
B14730	Axle, Long Shaft
13204	Bolt, Short
12680	Bolt, Long
	B14729 12798 C14688 12682 B14730 13204



NOTE: The differential used on this unit is warranted by the manufacturer. Parts listed must be obtained direct from Indus Wheel Co., 1815 Madison Avenue, Indianapolis, Indiana 46206. If parts are not listed, complete unit modified by Sensation should be purchased from The Sensation Corp. P/N 043-209.

SENSATION

POWER MOWER OWNER'S MANUAL

MODELS: 24S5-7

24\$5-8

24\$5-9



Auxiliary gas tank shown is optional equipment

THE SENSATION CORPORATION • OMAHA, NEBRASKA 68110



SAFETY



Caution Symbol
THE TRIANGULAR SYMBOL SHOWN ABOVE IS
USED THROUGHOUT THIS BOOKLET TO CALL
SPECIAL ATTENTION TO ITEMS AFFECTING THE
OPERATOR'S PERSONAL SAFETY. THESE ITEMS
SHOULD BE GIVEN CLOSE ATTENTION.

- CAUTION: Before leaving the operator's position, shift transmission into Neutral, disengage attachment clutch, and shut off engine.
- 2. Keep all shields in place.
- Wait for all movement to stop before servicing machine.
- Keep people and pets a safe distance away from machine.
- Know the controls and how to stop quickly READ THE OWNER'S MANUAL.
- Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction.
- 7. Do not carry passengers.
- Clear work area of objects which might be picked up and thrown. The blade can throw objects with sufficient force to cause damage or injury.
- Disengage all attachment clutches and shift into Neutral before attempting to start engine.
- Stop engine before leaving operator position and before making any repairs or adjustments.
- Take all possible precautions when leaving vehicle unattended, such as disengaging power take-off, shifting into Neutral, and stopping engine.
- Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of steep slopes, never across the face.
- Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
- Stay alert for holes in terrain and other hidden hazards.
- 15. Handle gasoline with care it is highly flammable.
 - A. Use approved gasoline container.
 - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors.
 - C. Wipe up any spilled gasoline thoroughly before starting the engine.

- D. Open doors if engine is run in garage exhuast fumes are dangerous. Do not run engine indoors.
- Keep vehicle and attachments in good operating condition and keep safety devices in place.
- Keep all nuts, bolts, and screws tight to be sure equipment is in safe working condition.
- Never store equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark.
- 19. Allow engine to cool before storing in any enclosure.
- 20. To reduce fire hazard, keep engine free of grass, leaves, or excessive grease.
- 21. Vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
- Do not change engine governor settings or overspeed engine.
- 23. When using mower:
 - A. Mow only in daylight or in good artificial light.
 - B. Never make a cutting-height adjustment while engine is running.
 - C. Shut engine off when unclogging chute.
 - Check blade-mounting bolts for proper tightness at frequent intervals.
 - E. The blade continues to rotate for a few seconds after the engine is shut off. Do not place any part of the body in the blade area until you are sure the blade has stopped.
 - F. Do not mow on wet grass.
- Do not wear loose-fitting clothing that could get caught in moving parts.
- 25. Follow maintenance instructions as outlined in this manual.
- 26. DISCONNECT THE SPARK PLUG WIRE BEFORE MAKING ANY ADJUSTMENT OR REPAIR.



SET-UP INSTRUCTIONS

NOTE: USE PARTS LIST IN CONJUNCTION WITH SET UP INSTRUCTIONS FOR PROPER ASSEMBLY OF PARTS.

HANDLE ASSEMBLY

- Position the handle onto the outside of the handle brackets making sure the six punched holes in the handle face upward. Secure using four hex cap screws 3/8 NC x 3/4 (insert from the outside) and flange lock nuts provided. Finger tighten only.
- 2. Attach the handle brace onto the top of the frame using hex cap screw 5/16 NC x 1-1/2, lock washer, and nut provided. Finger tighten only.
- Attach the brace to the handle threaded stud. (Push the handle up slightly, if necessary). Secure using 5/16 NC nut and lock washer provided.
- 4. Tighten all nuts and bolts installed in steps 1, 2, and 3.

CONTROL PANEL ASSEMBLY

 Remove the protective packing from the control panel. Place the panel on the handle aligning the six mounting holes. Secure using six 8/32 x 3/8 tapping screws provided. Do not overtighten.

BLADE CONTROL ROD ASSEMBLY

- Place one 5/16 NC nut onto both control rods and screw them to the end of the threads.
- Attach the control rod with a painted end to the pivot bracket by inserting the rod from the left side. Secure using flat washer and cotter key provided.
- 3. Place coupling nut onto the lower rod and screw it on approximately 1/2".

- Place the upper control rod into the coupling nut and screw it in approximately 1/2".
- 5. Insert the upper rod into the blade control lever.
- 6. Try the blade control lever to test the tension being exerted. If the tension is too great, remove the upper control rod from the blade control lever and unscrew the coupler nut equally from both rods. If the tension is too little, reverse process.
- Attach the upper control rod to the blade control lever using flat washer and cotter key provided.
- 8. Hold coupling nut with a wrench and tighten both 5/16 nuts against the coupling nut.

CLUTCH CONTROL ASSEMBLY

- Attach the clutch control rod to the clutch lever by inserting the rod through the bottom side. Secure using flat washer and cotter key provided.
- Attach lower end of clutch control rod to pivot arm by inserting into the hole above spring. Secure using flat washer and cotter key provided.

ENGINE

Follow engine manufacturer's instructions (refer to engine manual provided).

SHIFT LEVER ASSEMBLY

- Place the shift lever onto the shaft with the point towards gear speed selection legend.
- Mount the flange bolt and lock washer on the shaft and tighten securely. Do not hammer on the shifting plate or shift lever. The bolt will pull it down in place.



CONTROLS

CONTROLS

The following section is intended to familiarize the operator with the location and function of controls before operating the mower. Check all controls for smooth, un-obstructed action before operating machine.

THROTTLE CONTROL

The throttle control lever controls the speed of the engine and, therefore, on self-propelled models the speed of the mower. Pushing the lever forward, away from the operator, increases engine speed. Pulling the lever back, toward the operator, decreases engine speed. Pull The Throttle Lever Full Back, Toward The Operator To Stop the Engine.

WHEEL DRIVE

The clutch lever mounted on the right hand upper handle, controls the forward motion of the mower. To engage the wheel drive mechanism, pull the clutch lever toward the upper handle. Release the clutch handle to its "neutral" position to stop the forward motion of the mower.

BLADE DRIVE

The blade lever mounted on the left hand upper handle controls the rotation of the cutting blade. To engage the

blade mechanism, pull the blade lever toward the upper handle until it self locks itself down. Push the blade lever forward to its neutral position to stop the rotation of the cutting blade.

SHIFT LEVER

Gear selection is made by moving the shift lever handle watching the indicator, and moving it to the desired gear. If the gear shift lever will not advance move the mower back and forth slightly. This causes the gear teeth to mesh properly.

Note: Two electrical interlock devices are provided; one to prevent the engine from starting while the transmission is in gear and one to prevent starting with cutting blade in cut position.



CAUTION: THE ELECTRICAL INTERLOCK SYSTEM IS PROVIDED SPECIFICALLY AS A SAFETY FEATURE AND CARE SHOULD BE TAKEN TO INSURE THAT BOTH SWITCHES FUNCTION PROPERLY AT ALL TIMES. INTERLOCK SYSTEM TEST PROCEDURES ARE CONTAINED IN THE MAINTENANCE SECTION OF THIS BOOKLET.

CUTTING HEIGHT ADJUSTMENT



CAUTION: STOP ENGINE BEFORE MAK-ING ANY WHEEL ADJUSTMENTS.

Your mower can cut grass at heights of 3", 2-1/2", 2", and 1-1/2". Height adjustment is made by adding or removing spacers from the front wheel spindles.

TO ADJUST

 Remove the clinch pin, washer, and wheel assembly from the mower. Remove or add spacers on the wheel spindle shaft according to the cutting height desired.

Zero spacers — 1-1/2" cut

One spacer - 2" cut

Two spacers - 2-1/2" cut

Three spacers - 3" cut

- 3. Reinstall the wheel assembly on the mower.
- Place the remaining spacers (if any) back onto the wheel spindle shaft.
- 5. Secure with washer and clinch pin.



OPERATION



CAUTION: DO NOT OPERATE MOWER WITHOUT DRAG SHIELD ASSEMBLY IN PLACE AND SWINGING FREELY.

PRE-OPERATION CHECK AND SERVICE

Before each period of operation, visually check all nuts, bolts, fasteners, and tires for proper condition.

STARTING



CAUTION: LOCATE MACHINE ON A LEVEL SURFACE BEFORE STARTING TO PREVENT MACHINE FROM ROLLING.

- 1. Place blade control lever in "disengaged" position.
- 2. Place transmission lever in "neutral" position.
- 3. Move throttle control lever to choke position.
- 4. Pull recoil handle briskly until engine starts.
- To stop engine, move throttle control lever to "Stop" position.

MOWING because is placed and only

Note: Mow with a sharp blade as a dull blade tends to tear, rather than cut, grass.

- 1. With the engine running, pull the blade control lever to the cut position.
- Move the throttle control lever to a suitable running speed for mowing. Note: For best results, the mower should be operated with the engine at full or nearly full throttle.
- Move shift lever handle, watch indicator and move to the desired gear.

Note: The ground speed is controllable by the transmission speed setting. This setting should be varied depending on the job being performed.

A

CAUTION: WHEN OPERATING MOWER ON BUMPY GROUND, GRADES, OR SLOPES, USE LOWER TRANSMISSION SETTING.

Pull clutch lever toward upper handle slowly. Release to stop drive mechanism.



CAUTION: MOWER MUST BE AT A FULL STOP BEFORE SHIFTING FROM A FORWARD SPEED TO REVERSE AND FROM REVERSE TO FORWARD! OTHERWISE, SEVERE DAMAGE TO TRANSMISSION MAY OCCUR.



CAUTION: WHEN CROSSING A GRAVEL DRIVEWAY, ROAD, OR SIDEWALK, DISENGAGE CUTTING BLADE SO LOOSE SAND AND ROCKS ARE NOT THROWN.

TRANSPORTING

- When transporting mower from one area to another, shift to higher gear setting and reduce throttle speed.
- 2. Disengage cutting blade.

GEAR SELECTION RECOMMENDATION

- Reverse . . . For maneuvering machine only. Not to be used for mowing.
- 1st Gear . . . Primary mowing gear for tall weeds and grasses. Either walk behind or with riding sulky.
- 2nd Gear . . . Secondary mowing gear for normal grass heights. Primarily used with riding sulky.
- 3rd Gear . . . For transporting machine on level, clear terrain only at reduced throttle speed. Do not use for mowing.

ADJUSTMENTS

BLADE BELT TENSION

Tension is adjusted by adjusting the coupling nut connecting the upper and lower blade control rods.

- 1. Unscrew the 5/16 nuts away from the coupling nut.
- Remove the upper control rod from the blade control lever.
- Screw the coupling nut on (for increased tension) and off (for decreased tension) equally on each rod. Test.
- 4. Repeat step #3 until proper tension is achieved.
- Re-assemble. Be sure the 5/16 nuts are locked against the coupling nut.



DRIVE CHAIN TENSION

MODEL 2455-7

Chain tension is maintained by the fixed position of the differential.

- 1. Remove the chain guard.
- 2. Loosen the axle hanger bearing mounting bolts.
- Move the differential forward until chain is barely snug. You should be able to deflect the chain 1/2 when properly tensioned.
- 4. Securely tighten the axle hanger mounting bolts.

MODEL 2455-8

Chain tension is maintained by the fixed position of the chain idler.

- 1. Remove the chain guard.
- 2. Loosen the idler bracket mounting bolts.
- Move the chain idler rearward until chain is barely snug. You should be able to deflect the chain ½ inch when properly tensioned.
- 4. Securely tighten the idler bracket mounting bolts.

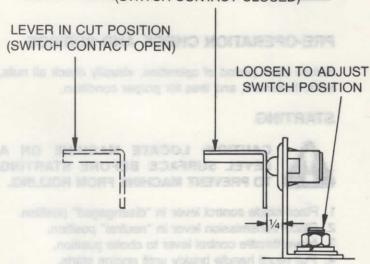
INTERLOCK, BLADE CUT/STOP LEVER

- 1. Loosen nut as shown.
- With blade control lever in the disengaged position, pivot switch assembly against the idler arm until switch contact closes.
- Hold switch assembly in the closed position and tighten nut.

Note: Do not adjust switch assembly with blade control lever in the cut position. Switch damage will result.

INTERLOCK, BLADE CUT/STOP LEVER

LEVER IN STOP POSITION (SWITCH CONTACT CLOSED)



BLADE BRAKE BAND

Brake band will rub on the lower half of the blade spindle when the blade control lever is placed in the disengaged position.

Tension — The brake band is spring loaded when engaged, making it self-adjusting. Therefore, no adjustments are required.

Alignment — There is two-way lock nut installed on the pivot bracket located on the left side of the spindle pulley. This nut aligns the brake band to the pulley. The nut should be tightened down as far as possible and still allow the brake band to pivot freely.

Refer to maintenance section for interlock circuit information.

MAINTENANCE



CAUTION: DISCONNECT SPARK PLUG LEAD PRIOR TO PERFORMING ANY MAINTENANCE.

BLADE SPINDLE

The blade spindle is equipped with sealed precision ball bearings and requires no lubrication. The bearings are replaceable when in need of replacement.

DECK HOUSING

Area beneath deck housing should be clear of matter, grass, or other debris to prevent possible blade interference and to insure best cutting performance.

ENGINE

Follow engine manufacturers' recommendation (refer to engine manual provided).





CAUTION: REPLACE BLADE WHICH SHOWS ANY SIGN OF CRACKS OR CRYS-TALIZATION TO PREVENT ITS DISINTE-GRATION AT HIGH ROTATING SPEEDS.

BLADE

The blade must be kept sharp and in balance to insure best cutting results and top engine performance. Use genuine "Sensation" replacement blades. Substitutes may endanger performance and personal safety.



CAUTION: USE A PAD OR WEAR A HEAVY GLOVE TO PROTECT YOUR HAND WHEN REMOVING OR INSTALLING BLADE.

BLADE REMOVAL/REPLACEMENT

Assemble blade in sequence as illustrated on parts diagram. Tighten blade bolt securely. Bolt should be torqued to 35 ft/LB's.

BLADE SHARPENING

It is recommended that the blade be taken to your Sensation dealer to insure proper sharpening and balancing.

AXLE HANGER BEARINGS

The rear wheel axle hanger bearing are sealed bearings which require no lubrication.

DRIVE CHAIN

Lubrication — Chain should be protected against abrassive and corrosive atmospheres. Periodically brush oil (SAE 10) onto the entire chain, the frequency being determined by the operating conditions.

CHAIN REPLACEMENT

- 1. Remove chain guard and loosen mounting bolts on axle hanger bearing, or idler bracket on 24S5-8.
- Locate master link and remove. Be careful not to bend keeper out of shape.
- 3. Install new chain making sure the keeper snaps tightly in place, seating itself in both pin grooves.
- Adjust for proper tension (see adjustment section) and re-assemble chain guard.

FRONT WHEELS

- Lubricate each wheel bearing (2 each wheel) periodically using a grease gun. Sensation markets a grease gun made special for this purpose.
- Lubricate upper and lower wheel spindle bearing periodically using a light oil (SAE 10).

PIVOT POINTS

 Lubricate transmission control and blade control pivot points using a light oil (SAE 10) periodically depending upon operating conditions.

DIFFERENTIAL

The differential is sealed at the factory and should not require adjustment or lubrication.

ELECTRICAL INTERLOCK TEST PROCEDURE



CAUTION: THE ELECTRICAL INTERLOCK SYSTEM IS PROVIDED SPECIFICALLY AS A SAFETY FEATURE AND CARE SHOULD BE TAKEN TO INSURE THAT BOTH SWITCHES FUNCTION PROPERLY AT ALL TIMES.



CAUTION: REMOVE SPARK PLUG LEAD BEFORE TESTING.

Note: This test requires a circuit testing device (continuity light or meter) generally available at electronic or automotive supply stores.

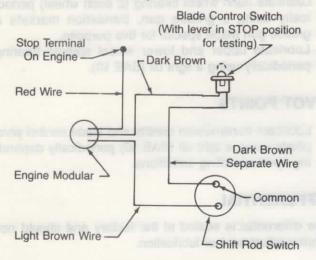
- Remove belt guard from cutting deck to allow access to the blade control switch.
- Place the transmission in neutral and remove the gear shift lever and transmission cover plate.
- With the blade control lever in the disengaged position, verify that the blade control switch lever is in the position shown in the wiring diagram.

Note: If adjustment is required to obtain the proper switch lever position, refer to the adjustment section of this booklet.

4. Test each switch by placing the circuit tester leads onto the terminals that the wires connect to. The circuit testing device should indicate a complete circuit at this time. If it does not, switch is defective and should be replaced.



WIRING DIAGRAM, SWITCHES



BELT REPLACEMENT

Note: Due to the unique characteristics and functions of these belts, only genuine Sensation service parts should be used for replacement to insure proper belt operation.

BLADE DRIVE BELT

- 1. Place blade control lever in the disengaged position.
- Insure that spark plug lead is removed before proceeding.
- Remove belt guard from cutting deck and loosen mounting bolts on belt guides.
- Remove and install new belt. Be sure belt is inside belt guides and that the mounting bolts have been secured.
- Place blade control lever in the cut position. Visually check belts to see that they are not striking any of the belt guides. Adjust guides if necessary.
- 6. Re-assemble belt guard.

TRANSMISSION DRIVE BELT

- 1. Place blade control lever in the disengaged position.
- Insure that the spark plug lead is removed before proceeding.
- 3. Remove belt guard and mounting bolts on engine pulley belt guides only.
- 4. Remove blade belt from engine pulley.
- Remove clutch belt and install new one. Be sure belt is inside belt guides and that the clutch idler pulley is on the outside of the belt.
- Place blade belt back onto engine pulley and tighten securely mounting bolts in the belt guide.
- Place blade control lever in the cut position. Visually check belts to see that they are not striking any of the belt guides. Adjust guides if necessary.
- Test clutch control to see if proper belt tension exists, if not refer to adjustment section.
- 9. Re-assemble belt guard.

BLADE BRAKE BAND

Brake band should be inspected for wear periodically depending on the operator usage of the blade clutch/brake mechanism. Replacement should be made before steel to steel contact is made.

To replace:

- Remove belt guard and place blade control lever in disengaged position.
- Unhook the spring hook from the engine base, releasing spring tension.
- Remove the clevis pin and 2 way lock nut holding the brake band.
- 4. Install new brake band and re-assemble.

TRANSMISSION

The transmission is sealed at the factory and should not require adjustment and/or lubrication.

OPTIONAL EQUIPMENT

RIDING SULKY

Adds comfort plus to the performance. Means less down time due to personal fatigue as compared to conventional walk behind usage.

GREASE GUN KIT

Used for lubricating wheel bearings.

AUXILIARY GAS TANK KIT

Adds 3 quart capacity to your current engine gas tank — means less down time for refilling.

ONE-PIECE SENSATION SUIT

Bright, highway safety orange colored utility jumpsuit. Provides protection for personal clothing and gives a neat, snappy, professional teamwork look.

SKID BARS

Replaces the standard 6" front caster wheel assembly. Used in heavy weeded areas eliminating cut weed accumulation on front end of mower.

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