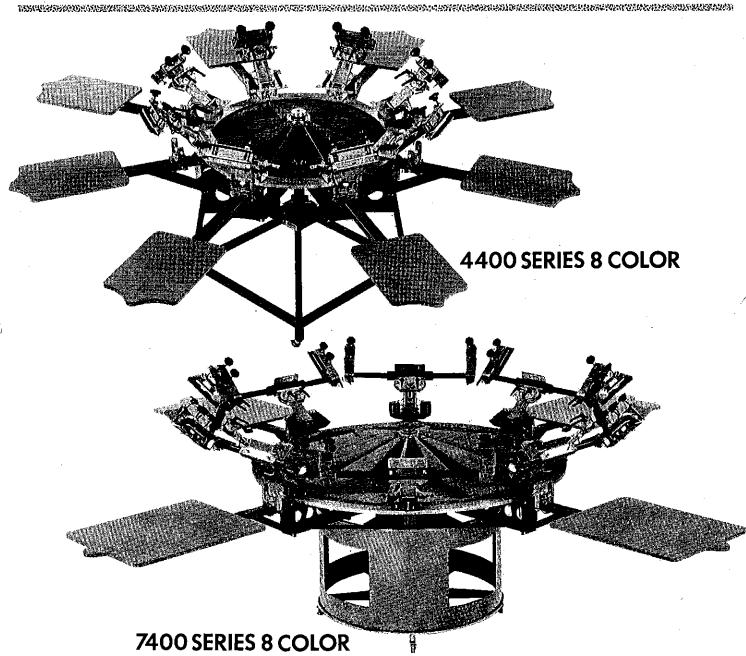
INSTRUCTIONS

4400 & 7400 SERIES (WITH OR WITHOUT MICRO REGISTRATION) ASSEMBLY & ADJUSTMENT





With proper assembly and care, your new printer will provide you with years of productive, high quality work. It is to your advantage to read the following instructions thoroughly to ensure proper assembly of your new printing machine!

The Hopkins 4400 and 7400 Series Printing Machines are each shipped in or on two separate crates or skids. The 4400 Series machines are shipped in two crates. The 7400 Series machines are shipped on one skid and in one crate. Typically one crate or skid will hold the main body of the machine: the Base, Print Station Mount and Wheel assembled as one component. The second crate will hold

the Arm Assemblies. Print Stations and Shirtboards, also in this crate there will be a Parts Bag containing all of the hardware necessary to assemble your printer.

TOOLS REQUIRED FOR ASSEMBLY: One ½" and two \%16" combination wrenches, (A \%6" Socket and Ratchet may be useful.) and a hammer for insertion of the Roll Pins.

To assemble your new Hopkins printing machine complete the following procedures. (GO TO THE NEXT PAGE)

ASSEMBLY INSTRUCTIONS

- Insert threaded Leg Levelers in each leg of the base and adjust to level machine at the site of operation.
- Locate the Arm Assemblies, 6, 8, or 10 depending on model. .he Arm Assemblies will typically ship in 4 parts: the 2 Side Clamps, the Cross Tube, and the Registration Arm. Mount the Registration Arms to the 44" or 74" cast aluminum wheel using the $\%"-16\times1.\%"$ or the $\%"-16\times114"$ Hex Head bolts and Nylock Nuts provided. (Note: Enter the bolts from the underside of the wheel.) Wrench tighten. Install Cross Tube, Squeegee Rest and Side Clamps to Registration Arm assembly with the %-16×3"carriage bolts #66, provided.
- Locate Vertical Mounting Plates on the Print Station Mounts marked by the numbers 1 thru 4 or 8 depending on model. Print Station Mount is the center section of the machine located between the Base and Wheel. Match the Print Stations, also numbered 1 thru 4 or 8 to the corresponding Mounting Plates.
- Loosely attach Print Stations to the Print Station mounts using 4. the %-16×%" Hex Head Bolts and Nylock Nuts provided. Tighten until the Print Stations and Mounting Plates are in close proximity, leaving sufficient play for easy alignment of the Roll Pin holes. NOTE: THE TOP TWO MOUNTING BOLTS MUST ENTER FROM THE BACK SIDE OF MOUNTING PLATES.
 - Align the Roll Pin holes and insert the Pins until they show an 5. equal amount on both sides of the hole. This provides "Factory Alignment" of the Arm Assemblies to the Print Stations.
 - Wrench tighten Hex Head Mounting Bolts and Nylock Nuts. 6.
 - 7. Install Shirtboards on the Print Stations and secure. DO NOT OVERTIGHTEN KNOBS, OR DAMAGE TO SHIRTBOARD BRACKET OR TUBING WILL RESULT.

ASSEMBLY OF YOUR HOPKINS PRINTING MACHINE IS COMPLETE . . . ENJOY!

LEVELING ADJUSTMENT

REGGIE PIVOT CLAMP BOLT #20: This is a pivot and leveling adjustment allowing the operator to pivot the front of the screen frame up and/or down.

CARRIAGE BOLTS #22: This adjustment area is designed for raising and/or lowering the height, leveling side to side and setting desired OFF-CONTACT distance of the screen frame.

- Master Gate, stamped with a "R", Level and register all screens to this station. (All stations are leveled and registered to this station during assembly.)
- Place screen frame in the Screen Clamp and secure.
- Lower screen to the Shirtboard. The distance between the front of the clamp and the back of the shirtboard should be approximately 1/2" to avoid deflection of the screen mesh in the frame, while leveling. Gently run your fingers over the screen surface checking for uniform contact with the Shirtboard. (If uniform contact exists, the remaining steps are not required.)
- Loosen the adjustments in the following order: Both Carriage Bolts #22, on the Screen Clamp, the two Reggie Pivot Clamp Bolts #20, they run parallel to each other directly behind the clamps. NOTE: To loosen and tighten the Reggie Pivot Clamp Bolts, a 8"-10" combination wrench works best to obtain proper leverage. To help in the ease of loosening and tightening of the Reggie Pivot Clamp Bolts we have found that reaching the upper bolt from the top and the lower bolt from the underside of the Reggie works the best. (Remember, use the BOX END of the wrench.)

NOTE: DO NOT ADJUST GATE PAD. This is pre-set during assembly at the factory to ensure each Arm and Print Station meet at the same level. THIS IS NOT INTENDED TO BE AN OFF-CONTACT ADJUSTMENT.

Built into both Reggie and Micro Reggie registration systems is an pop system allowing the screen frame to remain at roughly the same level of Off-Contact set by the operator throughout the registration process.

With use, screen frames often tend to warp so that all sides are not level with the Shirtboards printing surface. This can degrade the quality of the printed image. Therefore, the first step in registration is leveling the screen with the shirtboard. This process must be repeated with each screen.

- 5. Allow the screen to settle level to the Shirtboard.
- Snug tighten the two Carriage Bolts, #22. (Create intimate 6. contact between the L-Brackets #18, and the backside of the Screen Clamp.
- Wrench tighten the Reggie Pivot Clamp Bolt Nut # 21, using 7. BOX END of the wrench.
- For setting the "Off Contact" now that the screen is leveled use the Carraige Bolts #22, to make this adjustment before tightening.
- Wrench tighten the Carriage Bolt Nut #3.
- MACHINES UTILIZING SIDE CLAMPS: the leveling procedures are very much the same, the adjustments are located differently. The Carriage Bolts #66, are located on the square tube portion of the Cross Tube. The U-joint or pivot adjustment is performed by pivoting the Side Clamps on the Cross Tube, this adjustment is controlled by a locking ratchet handle at the top back of each Side Clamp, for loosening and tightening. (DO NOT OVER-TIGHTEN, AS COLLAPSE OF TUBING WILL RESULT.)

In time you may wish to modify this procedure as you become more experienced in identifying the necessary adjustments for correcting a non level condition.

SHIRTBOARD POSITION

To place the Shirtboard in the general position necessary for printing. It helps to have Reggie or Micro Reggie CENTERED before locating the Shirtboard to allow for maximum mobility of adjustment in the registration process.

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- Tape film positive of image to be printed to the shirtboard in position desired.
- Bring the screen down over the image, and check for rough alignment with the film positive.

Loosen Shirtboard Assembly and adjust Shirtboard as necessary, and retighten. When tightening the Shirtboard Bracket, make contact with both knobs, snug the side knob first and then tighten the bottom knob APPROXIMATELY 1/2 TURN to secure the Shirtboard (To loosen, reverse procedure). Check for proper stability, DO NOT OVERTIGHTEN KNOBS, OR DAMAGE TO SHIRTBOARD BRACKET OR TUBING WILL RESULT.

SCREEN REGISTRATION

- Make your major corrections by loosening the ratchet handles on the Reggie section of the Arm located behind the Clamp Assembly.
- For minor adjustments in forward/backward of rotational directions, use the Thumb Screws #23, on the back of the Clamp #25, in combination with loosening the associated Clamp Knob

AND THE STATE OF T #24 (Micro adjustments are best made when beginning with Thumb Screw extended approximately 1/4")

> Recheck each screen with the positive before applying ink to 3. the screens.

MICRO REGGIE/MICRO REGISTRATION

- Loosen the Clamp assembly and quickly register the screen to film positive. Secure the screen in the Clamp assembly.
- Major side to side movements are made in the Clamp.
- Major front to back movements are made with the Shirtboard.
- Fine tune the registration by loosening the ratchet handles and utilizing the Micro adjusters (2 of #35, #44) to accurately dial in the registration. Micro Reggie allows you complete X, Y, and Rotational movement of the screen frame.
- Tighten Ratchet Handles. (DO NOT OVERTIGHTEN.) 5.

GENERAL MAINTAINENCE

- Keep your machine CLEAN!
- Lightly grease the Clamp Stems #27, whenever they need it.
- Do not enter into a contest of strength with any of the adjustments on this machine. You may win!

Annually repack wheel bearings by:

- Loosen four set screws on center shaft thrust plate.
- Remove external snap ring.

NEW NOONE DE LE CONTRACT DE LA CONTR Lift off wheel, removing upper and lower bearing. 3.

- Repack bearings with heavy bearing grease. 4.
- Apply light lubricating oil to felt seal ring in base of wheel.
- Reassemble. Tighten set screws to set bearings then back off until wheel turns freely with no rocking.

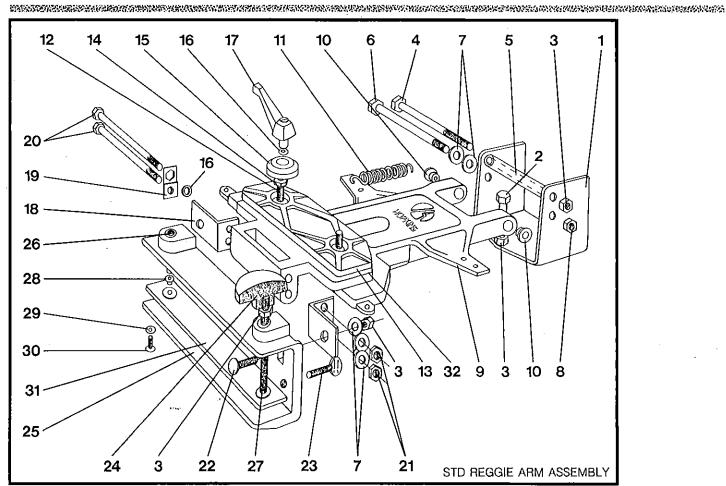
REPLACING ARM SPRINGS

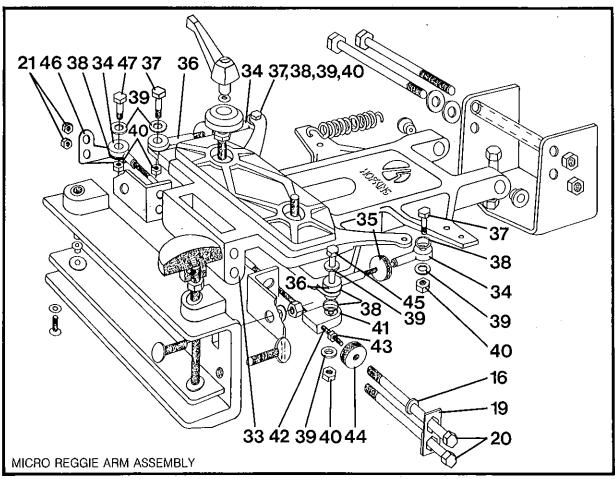
- Lower Arm into Registration Gate. 1.
- Remove the Arm Stop Bolt #4, and Bumper Tube #5, located at the top of Arm Mounting Bracket #1, by undoing Nut #3.
- Hold on and carefully raise the Arm assembly to vertical position relaxing the Arm Springs.
- Remove old Arm Springs and replace with new. 4.
- Lower Arm assembly into Registration Gate. 5.
- Re-install Arm Stop Bolt, Bumper Tube and Nut. Snug tighten only, DO NOT OVERTIGHTEN, AS ARM RESISTANCE WILL OCCUR.
- Raise Arm assembly to the up position.

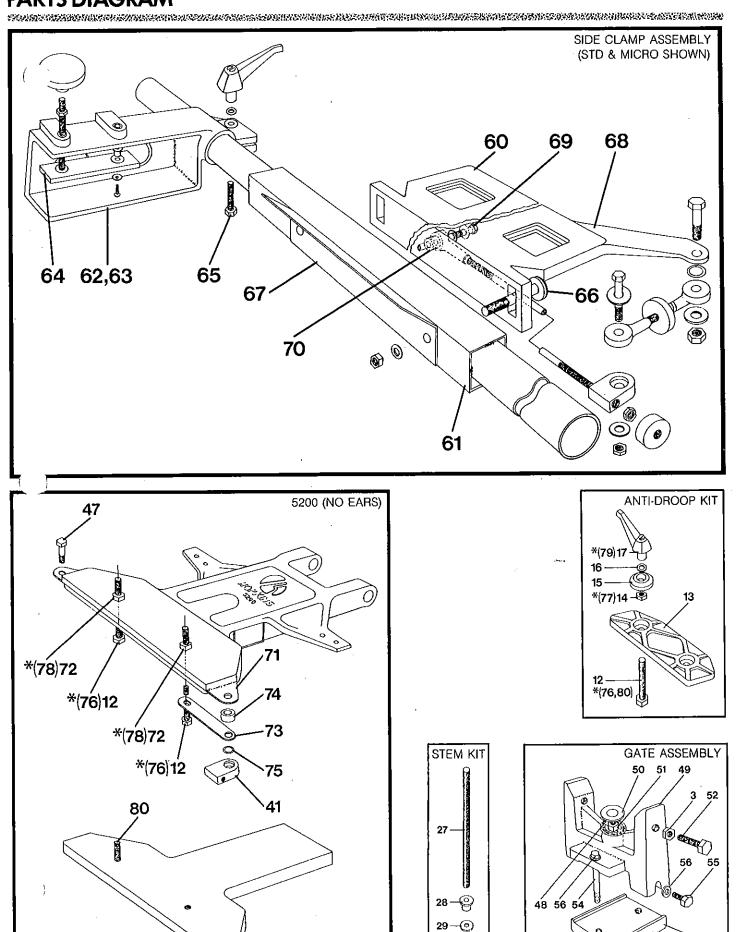
IMPORTANT

Hopkins Printing Machines are carefully designed and built to provide smooth, quick, user friendly operation. You will get the most from your machine by gaining a thorough understanding of how to make and use the adjustments provided on the machine. If you treat your machine properly and are careful not to over tighten adjustment bolts, knobs, etc. as well as follow the maintainance instructions, your Hopkins Printing Machine will provide you with outstanding performance for many years to come. Proper new employee training on these procedures is necessary to maintain the quality and ease of use that Hopkins equipment provides.

PARTS DIAGRAM







*PART NO. IN () ARE FOR EARLY VERSION OF REGGIES, SEE PARTS LIST PARTS NOT ENUMERATED ON ALL DRAWINGS ARE COMMON AND MAY BE ONLY NUMBERED ON ONE DRAWING.

EARLY STD REGGIE

ORDERING INFORMATION: WHEN ORDERING PARTS, INCLUDE ITEM NO., PART NO., PARTS & KITS DESCRIPTION AND QUANTITY DESIRED, MACHINE TYPE AND SERIAL NO.

ITEM	PART NO.		DESCRIPTION		PART NO.		DESCRIPTION	
1	SAG0009	1	ARM BRACKET	40	HFMR005	5	5/16-24 ESNA NUT	
2	HF0026	1	SAFETY BOLT	41	MRA5251M	1	X-AXIS SPHERICAL BRG	
(-	HF0045	6	HEX NUT, COARSE	42	MRA5255	1	X-AXIS ADJ. SCREW	
\	HF0014	1	STOP BOLT	43	HF51624	1	JAM NUT 5/16-24	
5	PA06		BUMPER TUBE	44	MRA5257	1	X-AXIS ADJ. KNOB	
6	AN644	1	PIVOT BOLT	45	HFMR003	1	BOLT, AN5-21A	
7	HF0099	6	FLAT WASHER	46	MRA5252	1	X-AXIS ANGLE BRKT	
8	AN365	1	LOCKNUT (ESNA)	47	HFMR0011	1	BOLT, AN5-10A	
9	5200MR	1	REGGIE BASE (5200 MR)	48	A5279	1	GATE PAD WARNING PLATE	
10	HF0107	2	BUSHINGS	49	CG-3A	1	GATE CASTING	
11	ARMSPG	2/4	SPRINGS	50	HF0121	1	GATE PAD	
12	HFMR004	2	REGGIE BASE BOLTS	51	HF0044	1	JAM NUT	
13	MRCB4	1	REGGIE CLAMP PLATE	52	NB	2	NYLON BOLT	
14	HFMR006	2	3/8-24 ESNA NUT, THIN	53	A-5264	1	CLAMP PLATE	
15	MRA5253	2	CUP WASHER	54	HF0122	2	BASE BOLT	
16	HF0089	3	FLAT WASHER	55	HF0119	2	SIDE BOLT	
17	HF0143	2	RATCHET HANDLE	56	HF0093	4	FLAT WASHER	
18	CL2M-L,R	2	L-BRACKET (1-RH, 1-LH)	60	SC4	1	SIDE CLAMP ANGLE CASTING	
19	HF0078	1	BOLT LOCK PLATE	61	SAG15XX	1	CROSS TUBE XX = LENGTH	
20	AN644	2	REGGIE PIVOT CLAMP BOLT	62	LSC1	1	SIDE CLAMP RIGHT SIDE	
21	HF0114	2	3/8-24 HEX NUT	63	LSC2	1	SIDE CLAMP LEFT SIDE	
22	HFO130	-2	CARRIAGE BOLT	64	SC3	1	SCREEN CLAMP PLATE	
23	HF0035	2	THUMB SCREW	65	HF0018	1	BOLT 2"	
24	SDA0076A	2		66	HF0100	2	CARRIAGE BOLT	
25	CC2	1	CLAMP CASTING	67	TPL030	1	SQUEEGEE REST	
26	RC38	2	HAND KNOB CLAMP CASTING INSERT	68	MRC5262	1	SIDE CLAMP MICRO ANGLE CSTG	
27	HF0115T	2	STEM	69	HFMR010	1	AN5-12A BOLT	
28	HF0206	2	FLANGED WASHER	70	MRA5275	1	SPACER	
29	HF0058	2	FLAT WASHER	71	MRB5245	1	EAR PLATE	
,an	HF0205	2	BUTTON HEAD SCREW	72	HF0114	2	LOCKNUT 3/8-24	
-(-)	CBC	1	SCREEN CLAMP BAR	73	MRA5254	1	X-AXIS BRACE	
32	RCB3	1	REGGIE ANGLE CASTING	74	MRA5259B	1	X-AXIS SPACER, BIG	
33	MRC5258	1	MICRO REGGIE ANGLE CASTING	75	MRA5259A	1	X-AXIS SPACER, SMALL	
34	MRA5250L	3	ROD END, L.H.	76	HF0063	2	3/8-16 x 2 1/2 TAP BOLT	
35	MRA5256	2	Y-AXS ADJ, SCREW	77	HF0060	2	3/8-16 ESNA NUT, THIN	
36	MRA525OR	2	ROD END, R.H.	78	HF0045	2	LOCKNUT 3/8-16	
37	HFMR002	3	BOLT, AN5-11A	79	HF0153	2	3/8-16 RATCHET HANDLE	
38	HFMR0010	6	ORING, % O.D. × 1/16 THICK	80	HF0064	2	3/8-16 x 2 1/4 TAP BOLT	
39	HF0097	6	FLAT WASHER, 1/4 or 8MM					

UPDATE KITS

KIT NO. HK0001 CLAMP STEM UPDATE KIT

CONTAINS: PT NO. 27-30 (2 OF EACH)

KIT NO. HK0002 ANTI DROOP KIT

CONTAINS: PT NO. 12-17 (PLEASE STATE IF YOUR ARM HAS FINE OR COARSE THREADS)

MICRO REGGIE RETROFIT KITS KITS CONTAIN QUANTITIES FOR ONE ARM

KIT NO. HK0003	FOR PRINTERS WITH 5200MR REGGIE BASE
	CONTAINS: PT NO. 33-47
KIT NO. HK0004	FOR PRINTERS WITH 5200 REGGIE BASE, NO EARS, AND BOLT (#12) W/FINE THREADS
	CONTAINS: PT NO. 12-17, 33-36, (2 OF 37), 38-46, (2 OF 47), 71-75
KIT NO. HK0005	FOR PRINTERS WITH 5200 REGGIE BASE, NO EARS,
	AND BOLT (#12) W/COARSE THREADS (SAME AS CLAMP STEM #27)
	CONTAINS: PT NO. 13, 15, 16, 33-36, (2 OF 37), 38-46, (2 OF 47), 71, 73-79
KIT NO. HK0006	FOR PRINTERS WITH EARLY STD REGGIE BASE
	CONTAINS: PT NO. 13, 15, 16, 33-36, (2 OF 37),
	38-46, (2 OF 47), 71, 73-75, 77-80
KI™ NO. HK0007	FOR SIDE CLAMP, WITH 5200MR/5300MR REGGIE BASE
7	CONTAINS: PT NO. 34-45, 68-70

FOR SIDE CLAMP, WITH 5200/5300 REGGIE BASE, NO EARS KI1 NO. HK0008

CONTAINS: PT NO. 12-17, 34-36, (2 OF 37), 38-47, 68-75

FOR SIDE CLAMP WITH EARLY STD REGGIE BASE KIT NO. HK0009 CONTAINS: PT NO. 13, 15, 16, 34-36, (2 OF 37), 38-47, 71, 73-75, 77-80

