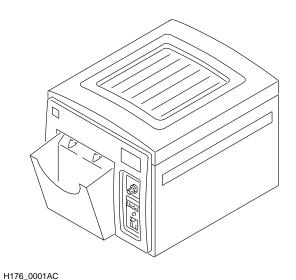
Publication No. 3E0816 29OCT99

SITE SPECIFICATIONS for the Kodak Min-R MAMMOGRAPHY PROCESSOR Service Code: 3752



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HEALTH IMAGING

PLEASE NOTE

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Warning

To avoid hazardous conditions, keep floors and floor coverings around your Processor and associated drains clean and dry at all times. Any accumulation of fluids from mixing tanks, drain lines, etc., should be cleaned up immediately. In the event of an accumulation of liquid due to backup, overflow, or other malfunctions of the drain associated with your Processor, call a plumber or other contractor to correct any problem with the drain. Kodak accepts no responsibility or liability whatsoever for the serviceability of any drain connected to or associated with a Processor. Such drains are the sole responsibility of the customer.

Certification

The following Agencies have approved the Processor:		The Processor meets the following EMI limits:	
UL	Listed to Standard No. 122	FCC Part 15, Subpart J, Class A	
CSA	Certified to Standard C22.2, No. 950	C108.8-M1983 of Canada, Class A Limits	
		Directive 87/308/EEC and EN 55022 of the ECC	

Checklist

Section	Торіс	Reference Page	Completed
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Radio Interference



This equipment generates, uses, and can radiate radio-frequency energy. If the equipment is not installed and used according to the instructions, it may cause interference to radio communications. The equipment has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at the user's own expense will be required to take whatever measures may be required to correct the interference.

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

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Section 1: Architectural

Parts and Accessories

Part No.	Description	Quantity	How to Obtain the Part
261413	Seismic Kit - use on the Processor or the Mounting Stand	1	Can be ordered from Kodak.
808 1176*	Kodak M35/M43 X-Omat Mounting Stand	1	
3H4195	Light Lock Gasket for installation through a wall	1	Packed with the Processor. See
	Hooks, Bolts, Nuts, and Washers for installation through a wall	2 - 4	Page 10.
	Plywood or equivalent material for installation through a wall	1	Purchase the material locally.

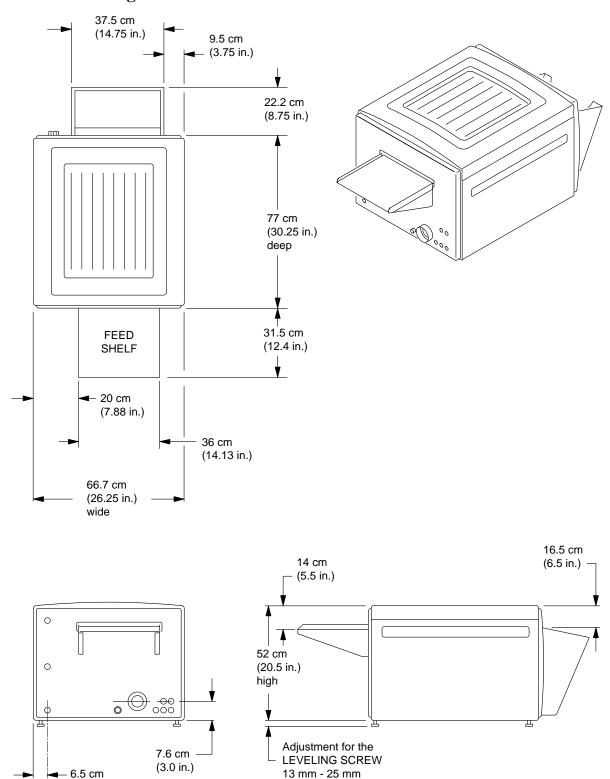
^{*} This item is a catalog number.

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Specifications

Dimensions and Weight

(2.5 in.)

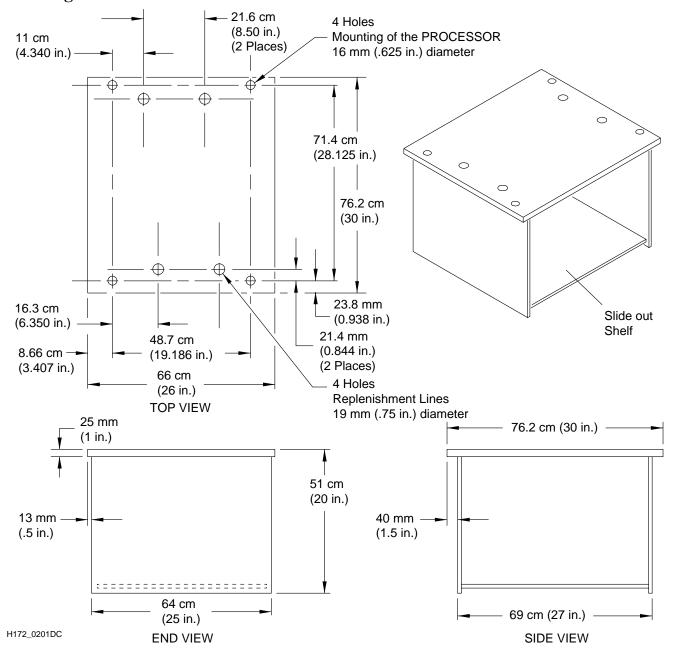


Shipping Crate an	Weight of the Processor		
Dimensions	Weight	With Solution	Without Solution
89 x 81 x 97 cm (35 x 32 x 38 in.)	108 kg (240 lb)	113 kg (250 lb)	90 kg (200 lb)

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(.50 in. - 1.00 in.)

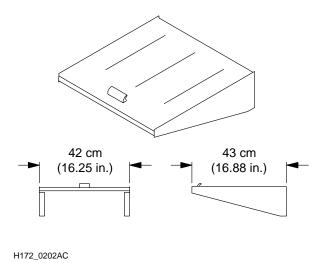
Mounting Stand



Use a rigid Stand that can support a minimum of 225 kg (500 lbs), such as the *Kodak* M35/M43 *X-Omat* Mounting Stand, Catalog No. 808 1176.

For maximum Processor stability, use Bolts to install the Processor to the Stand. Level the Stand and fasten it to the floor. Observe all local codes. The space in the base of the Stand is large enough for a *Kodak* Developer-Fixer Replenisher Tank Set, Model M7, Catalog No. 150 0537.

Lighttight Feed Tray

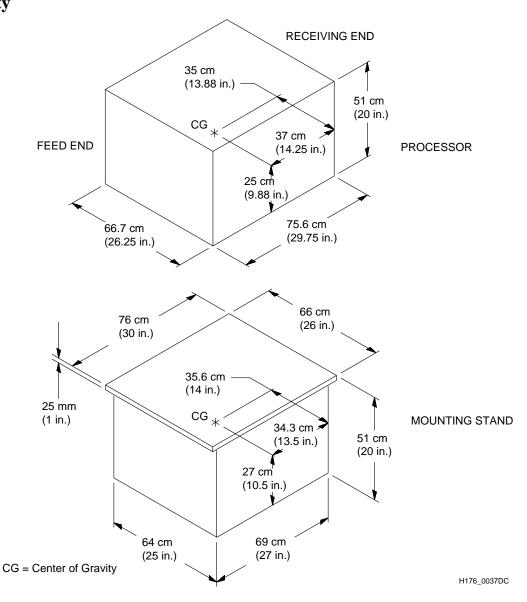


The optional *Kodak* M35/M35A *X-Omat* Lighttight Feed Tray 246558 is available.

Note

You cannot feed 2 sheets of 18 x 24 cm film side by side in the Lighttight Feed Tray.

Center of Gravity



Access and Ceiling Requirements

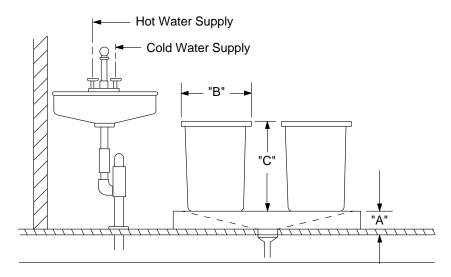


Important

If these access requirements are not provided, service time and cost might increase.

Maintenance and Operation Access Requirements						
Description	Recommended Minimum Distances	Symbol See "Suggested Room Layout" - Page 19				
Drive side of the Processor	91 cm (36 in.)	R				
Nondrive side of the Processor	91 cm (36 in.)	S				
Dryer side of the Processor	91 cm (36 in.)	Т				
Feed end of the Processor	91 cm (36 in.)	U				
Above the Processor	91 cm (36 in.)					
Area for 14-gallon Replenishment Tanks	61 x 127 cm (24 x 50 in.)	D x E				
Area for 30-gallon Replenishment Tanks	61 x 153 cm (24 x 60 in.)	D x E				

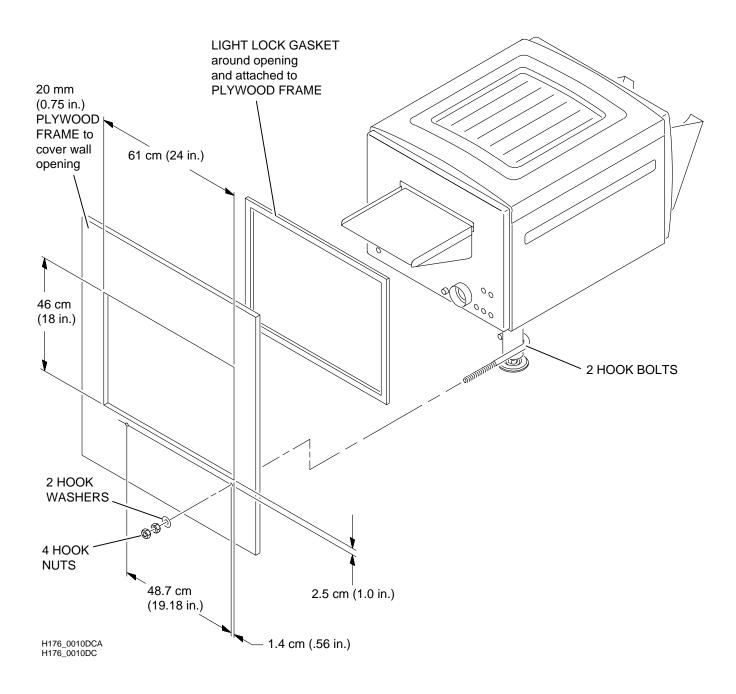
Replenishment Tanks



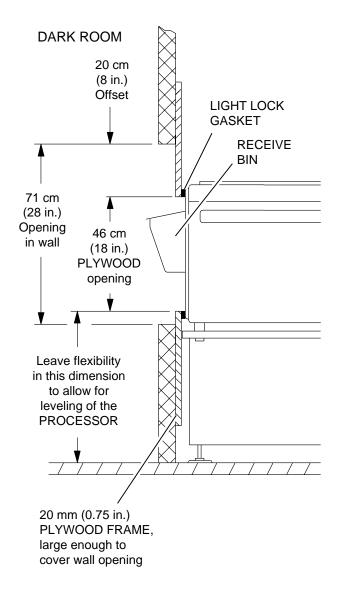
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Subject	Requirements							
Position of the Tanks	Locate the Tanks next to the water supply for mixing chemicals. Kodak provides 2 Replenishment Strainer Assemblies to be installed in the Hoses between the Tanks and the Processor.							
Dimensions	8 gallon 14 gallon 30 gallon							
	Diameter of a Tank "B"	29 x 43 cm (12 x 17 in.)	43 cm (17 in.)	56 cm (22 in.)				
	Height of a Tank "C"	32 cm (12½ in.)	58 cm (23 in.)	70.5 cm (27 ³ / ₄ in.)				
	Floor area of 2 Tanks - see Page 19, "D" and "E"		61 x 127 cm (24 x 50 in.)	61 x 153 cm (24 x 60 in.)				
	Maximum Platform Height "A"		48 cm (17 in.)	35 cm (14 in.)				

Installation Through a Wall Materials

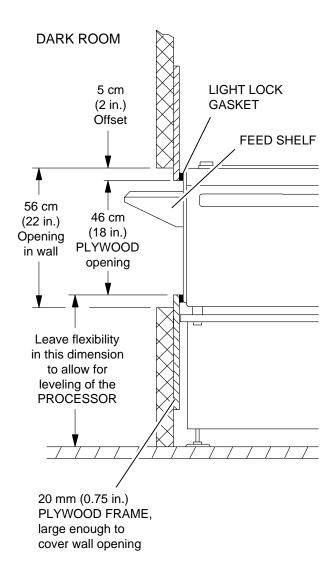


Dimensions for the Receive Bin



H176_0008CCA H176_0008CC

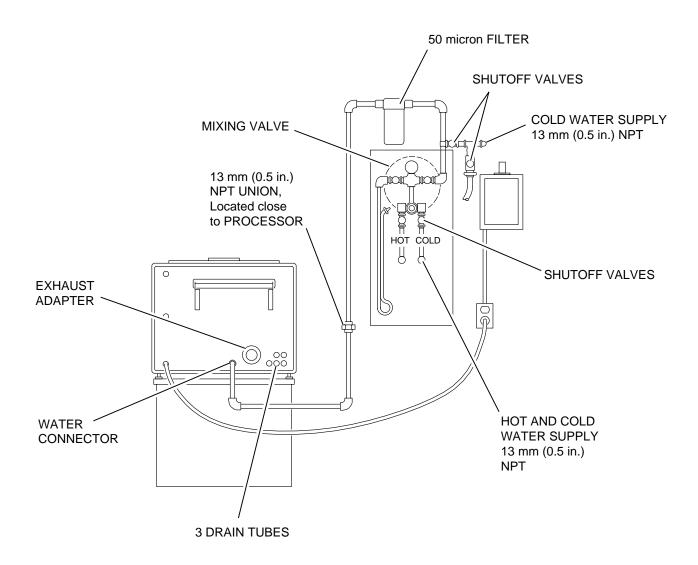
Dimensions for the Feed Shelf



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Section 2: Plumbing

Parts



H176_0035DCA H176_0035DC

Part No.	Description	Quantity	How to Obtain the Part
452990	3/8 in. Tubing for the Replenishment System	Order by the foot.	Purchase Tubing or Valve
467621	½ in. NPT Kodak Thermostatic Mixing Valve	1	locally or order from Kodak.
246802	Hose Clamp for the Drains	3	Packed with the
246800	Hose Clamp for the Replenishment Hoses	6	Processor.
472261	Replenishment Strainer Assembly	2	
551400	3/8 in. NPTM Water Connector	1	
760476	½ in. Drain Tube	5.50 m (18.0 ft)	

You might find the following parts useful in installing the Processor. They are not available from Kodak.

• ½ in. NPT Check Valve

• 2 ½ in. NPT Shutoff Valves

• ½ in. NPT Union

• In-line Thermometer

Catalog Numbers							
	Replenisher Tank Size						
Tank Kit	8 gallon	14 gallon	30 gallon	Silver Recovery Unit			
Kodak Developer Replenisher Tank Kit		151 1740	102 2987	Kodak Chemical Recovery Cartridge, Model II	173 4953		
Kodak Fixer Replenisher Tank Kit		151 1765	102 2961	Kodak Chemical Recovery Cartridge, Junior Model II	166 9431		
Kodak Developer-Fixer Replenisher Tank Set, Model M7 Can be used with the optional Mounting Stand, Catalog No. 808 1176.	150 0537			Kodak Circulating Unit, Model II	175 0868		

Note

 \overline{A} Tubing Adapter, $\frac{1}{2}$ in. to $\frac{1}{4}$ in. 555561 is necessary to connect the Silver Recovery Units to a Processor.

Specifications

Subject			Requirements			
Codes	Warn All plumbing	rning ag requirements must agree with local and national codes. Iron Piping is not recommended.				
Drain		erial must	be made of chemically resistant, noncorrosive material. Use PVC or the must have a minimum diameter of 7.6 cm (3 in.) and no obstructions.			
	Minimum di	ameter	7.6 cm (3 in.)			
	Capaci	ty	1 L minimum (½ gal) during normal operation. 40 L minimum (10½ gal) for draining all 3 solutions together. 13.2 L minimum (3½ gal) if each solution is drained separately.			
	Distance from the Processor		1.5 m (60 in.) maximum			
	Height from the floor		Flush with the floor and Drain Lines sloping gradually down to the floor Drain.			
	Hoses	Drain Tı	ubing is packed with the Processor.			
	Drain	Use corr	nake a solid connection between the Hoses and the Drain. Posive resistant connections. Posive resistant connections are necessary to direct the Hoses into the Drain, the customer can order Elbows dak.			
Water	Location	Accessil	ble to both the Processor and the Replenishment Tanks.			
Supply	Temperature	4 - 30°C (40 - 85°F) If the temperature of the water supply is higher than 30°C (85°F), install a water chiller. Kodak suggests a tempered water supply for cleaning the Processor and for mixing chemicals manually.				
	Pressure	138 - 448 kPa (20 - 65 psi) If necessary, install a Pressure Regulator and Gauge.				
	Flow volume	Controll	ed within the Processor to 0.95 L minimum (1/4 gal), +10% -0%.			
	Filtration	50-micro	on Water Filter in the input water line			
	Check Valve or Vacuum Breaker		The Processor has an internal 20 mm (0.8 in.) water gap in the wash supply system. A Check Valve should not be necessary, unless it is a requirement for local codes.			

Section 3: Electrical

Subject	Requirements Warning Earth ground is required.				
Basic Service					
	All electrical service must agree with local	and national codes.			
Processor	Voltage	Hertz	Amps		
	200 V AC ± 10%	50/60	20 maximum		
	208 V AC +6% -13%	60	20 maximum		
	230 V AC ± 10%	50/60	20 maximum		
	220 V AC ± 10%	50	20 maximum		
	240 V AC +6% -13%	50/60	20 maximum		
Main Power Disconnect Switch	The Switch must be: • located on a wall adjacent to the Processor within 2 m (7 ft) in the light room area.				
	• visible and accessible from the Processor.				
	a safe distance from water.				
Use either a Fused Disconnect Switch or a 2-pole thermomagnetic Circuit F solid neutral and a common trip.					

Section 4: Heating, Ventilation, and Air Conditioning

Parts

Part No.	Description	Quantity	How to Obtain the Part
264503	Kodak Auxiliary Ventilation Fan Kit - 110 V AC, 60 Hz Includes Air Gap Assembly 264519	1	Order these parts from Kodak or purchase equivalent parts
8B7105	Kodak Auxiliary Ventilation Fan Kit - operates on 95 to 250 V AC, 47 to 63 Hz Includes Air Gap Assembly 264519	1	locally.
264519	Air Gap Assembly	1	

Specifications

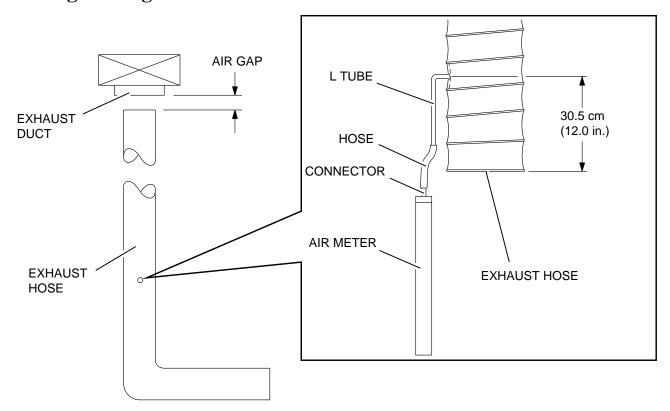
Subject	Requirements					
Room	Temperature	15 - 30°C (59 - 86°F)				
	Relative Humidity	15 - 76%				
	Ventilation	10 room air exchanges/hr for a room that is 3 x 3 x 3 m (10 x 10 x 10 ft)				
Building Exhaust System	The system must have the following ratings:					
	Volume - full load		2,124 L minimum (75 ft ³) 24 hours per day			
	Temperature		66°C (150°F) maximum			
	Heat Load to the room with the		3400 kJ/hr (3200 BTU/hr)			
	Processor					
	Exhaust Duct from the		Diameter = $7.6 \text{ cm } (3 \text{ in.})$			
	Processor					
	Exhaust Duct from the building with an adjustable Air Gap		Negative Pressure*			
			7.6 cm (3 in.) Duct	0.76 - 1.02 mm (0.03 - 0.04 in.) of water		
			10.2 cm (4 in.) Duct	0.25 - 0.51 mm (0.01 - 0.02 in.) of water		
			*See the procedure on Page 18 to check the negative pressure. If the negative pressure is not correct, an Auxiliary Ventilation Fan must be installed.			

Note

For installations through a wall, the air pressure in the dark room must be greater than the air pressure in the light room to prevent air flowing through the Processor into the dark room. When the air pressure is correctly balanced and the Processor is correctly vented, the:

- · chemical fumes and vapors will be contained
- film artifacts will be decreased

Checking the Negative Pressure



H176_0028HCA

- [1] Connect the rubber Hose from the Air Meter TL-2431 to:
 - L Tube
 - center Connector on the Meter
- [2] Make a 6.4 mm (½ in.) hole approximately 30.5 cm (12 in.) from the end of the Exhaust Hose that will be connected to the Processor.
- [3] Insert the L Tube into the 6.4 mm ($\frac{1}{4}$ in.) hole until the end of the Tube is flush with the <u>inside</u> of the Exhaust Hose.



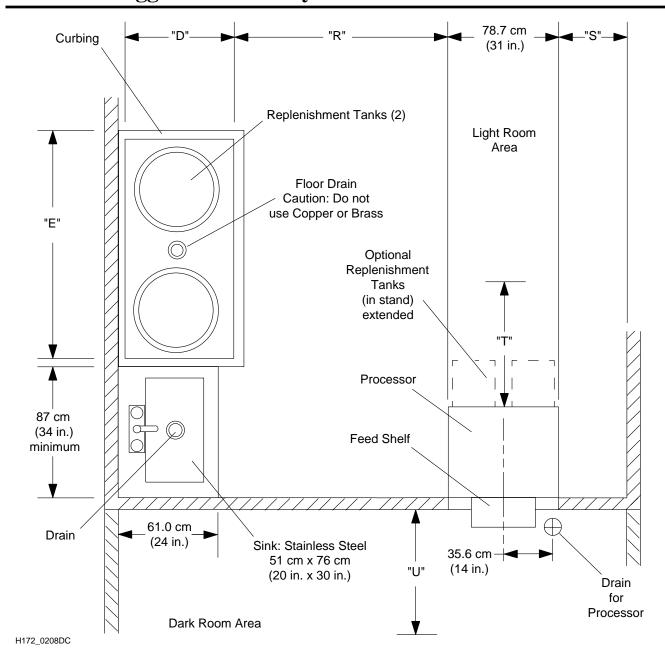
Important

- Hold the Meter vertically.
- Do not connect the Exhaust Hose to the Processor when checking the negative pressure.
- [4] Use the Air Meter TL-2431 to check that the negative pressure is correct:

Diameter of the Exhaust Hose	Negative Pressure	
7.6 cm (3.0 in.)	0.76 - 1.02 mm (0.03 - 0.04 in.) of water	
10.2 cm (4.0 in.)	0.25 - 0.51 mm (0.01 - 0.02 in.) of water	

- [5] If the negative pressure is not correct, adjust the distance between the Exhaust Duct for the building and the Exhaust Hose for the Processor.
- [6] If the negative pressure cannot be obtained, install an Auxiliary Ventilation Fan. See the installation instructions that is included with the Auxiliary Ventilation Fan.
- [7] Remove the L Tube from the Exhaust Hose and block the hole in the Exhaust Hose.
- [8] Connect the Exhaust Hose to the Processor.

Section 5: Suggested Room Layout



Note

For dimensions "D", "E", "R", "S", "T" and "U", see the table for "Maintenance and Operation Access Requirements" on Page 8.

Publication History

			Affected		
Print Date	Pub No.	ECO No.	Pages	Filename	Notes
29OCT99	3E0816	4014-508	All	ss3752_1_29oct99.fm	First Printing

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