

**TM 9-4940-469-14&P**

**TECHNICAL MANUAL  
OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT  
AND GENERAL SUPPORT MAINTENANCE  
MANUAL INCLUDING REPAIR PARTS LIST**

**TANK, PRESSURE FEED  
MODEL 50-6523  
(ECLIPSE SYSTEMS, INC.)  
(NSN4940-00-542-4846)**

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**HEADQUARTERS, DEPARTMENT OF THE ARMY  
OCTOBER 1980**



TECHNICAL MANUAL }  
NO. 9-4940-469-14&P }

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, DC, 10 October 1980

OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT  
MAINTENANCE MANUAL INCLUDING REPAIR PARTS LIST

FOR

**TANK, PRESSURE FEED  
MODEL 50-6523  
(NSN 4940-00-542-4846)**

REPORTING OF ERRORS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2, located in the back of this manual direct to: Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS, Rock Island, IL 61299. A reply will be furnished directly to you.

NOTE

This manual is published for the purpose of identifying an authorized commercial manual for use of the personnel to whom this pressure feed tank is issued.

Manufactured by: Eclipse Systems Inc.  
Box E, Cork Hill Road  
Franklin, NJ 07416

Procured under Contract No. DAAA09-78-C-4483

This technical manual is an authentication of the manufacturers' commercial literature and does not conform with the format and content specified in AR 310-3, Military Publications. This technical manual does, however, contain available information that is essential to the operation and maintenance of the equipment .



## INSTRUCTIONS FOR REQUISITIONING PARTS

### NOT IDENTIFIED BY NSN.

When requisitioning parts not identified by National Stock Number, it is mandatory that the following information be furnished the supply officer.

- 1 - Manufacturer's Federal Supply Code Number - 19272
- 2 - Manufacturer's Part Number exactly as listed herein.
- 3 - Nomenclature exactly as listed herein, including dimensions, if necessary.
- 4 - Manufacturer's Model Number - Model 50-6523
- 5 - Manufacturer's Serial Number (End Item)
- 6 - Any other information such as Type, Frame Number, and Electrical Characteristics, if applicable.
- 7 - If DD Form 1348 is used, fill in all blocks except 4, 5, 6, and Remarks field in accordance with AR 725-50.

Complete Form as Follows:

- (a) In blocks 4, 5, 6, list manufacturer's Federal Supply Code Number - 19272 followed by a colon and manufacturer's Part Number for the repair part.
- (b) Complete Remarks field as follows:  
Noun: (nomenclature of repair part)  
For: NSN: 4940-00-542-4846  
Manufacturer: Eclipse Systems, Inc.

Model: 50-6523  
Serial: (of end item)

Any other pertinent information such as Frame Number, Type, Dimensions, etc.



## (1) Special Features of Pressure Tanks

- Dual Regulation. Air pressure and atomizing pressure individually controlled by precision regulators.
- Three-way slide valve permits rapid refilling and color change without readjusting paint regulator.
- Tank heads are of heat treated aluminum alloy which meets ASME specifications for 110 PSI working pressure.
- Air Filter. Each head is supplied with an air filter. Filter prevents particles from damaging finish.
- Head easily positioned on tank. Dual concentric ridges on edge of head permits it to be placed on tank in almost any position.

### Control Head

- The lightweight control head is made of a heat treated aluminum alloy. It has the tensile strength of mild steel and is indestructible. The head is held on the tank by means of forged C clamps and wing screws. The wing screws are easily positioned on the control head between continuous concentric grooves around the upper edge. Control assembly consists of two diaphragm regulating valves (one for regulating the spraying pressure and one for control of pressure in container), two air gauges, shut-off valve, safety valve, air filter and three-way slide valve which shuts off air and releases pressure in container in one simple operation.

### Air Motored Agitator

- Agitator is powered by an explosion-proof air motor. The motor is operated directly from the main air line on the control head. A needle valve is provided for controlling RPM to provide continuous agitation.

## (2) Operation

Adjust right hand regulator (air regulator-pressure on fluid) to apply pressure to container. This is the first regulation of the flow of paint.

Open air shut-off valves. To determine proper pressures, begin by adjusting left-hand regulator valve (air-regulator-spraying pressure) to 20 lbs. Now, with the gun trigger pulled, bring the pressure on fluid (right-hand regulator) up until the gun begins to spray. Increase atomizing pressure, then pressure on fluid until satisfactory results are obtained. Keep the atomizing pressure as low as possible, increasing it only for greater speed or for more viscous materials.

#### (4) Safety Precautions

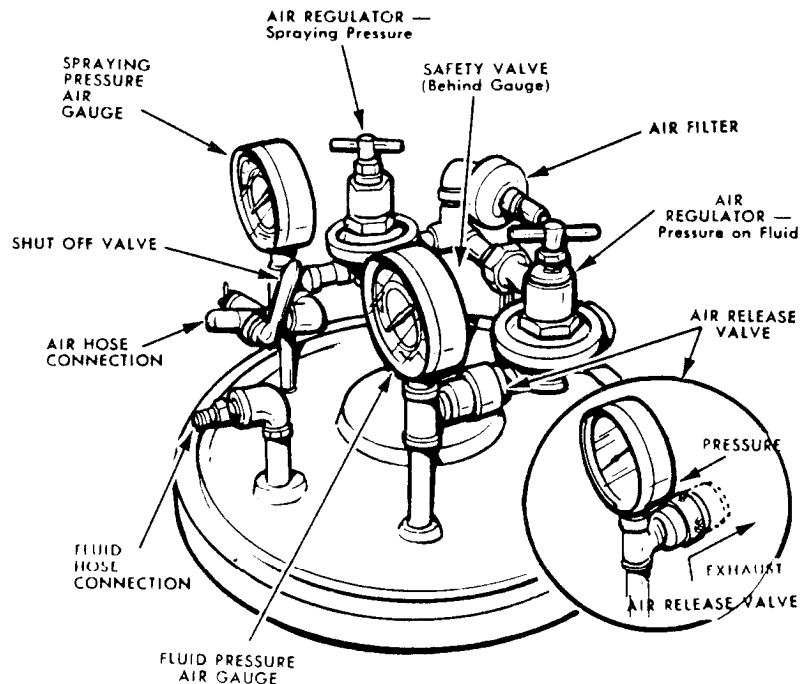
##### ASME TANK

Six C Clamps are pivoted from welded lugs on all ASME tanks except the 2-gallon ASME which has four clamps. The ASME Pressure Container is tested and approved for working pressure of 110 PSI. Do not operate tank at over 100 PSI. Do not tamper or readjust safety valve. Bleed air from tank by actuating slide valve before attempting to remove cover.

#### (5) Cleaning

##### 5.1 Pressure Tank Assembly.

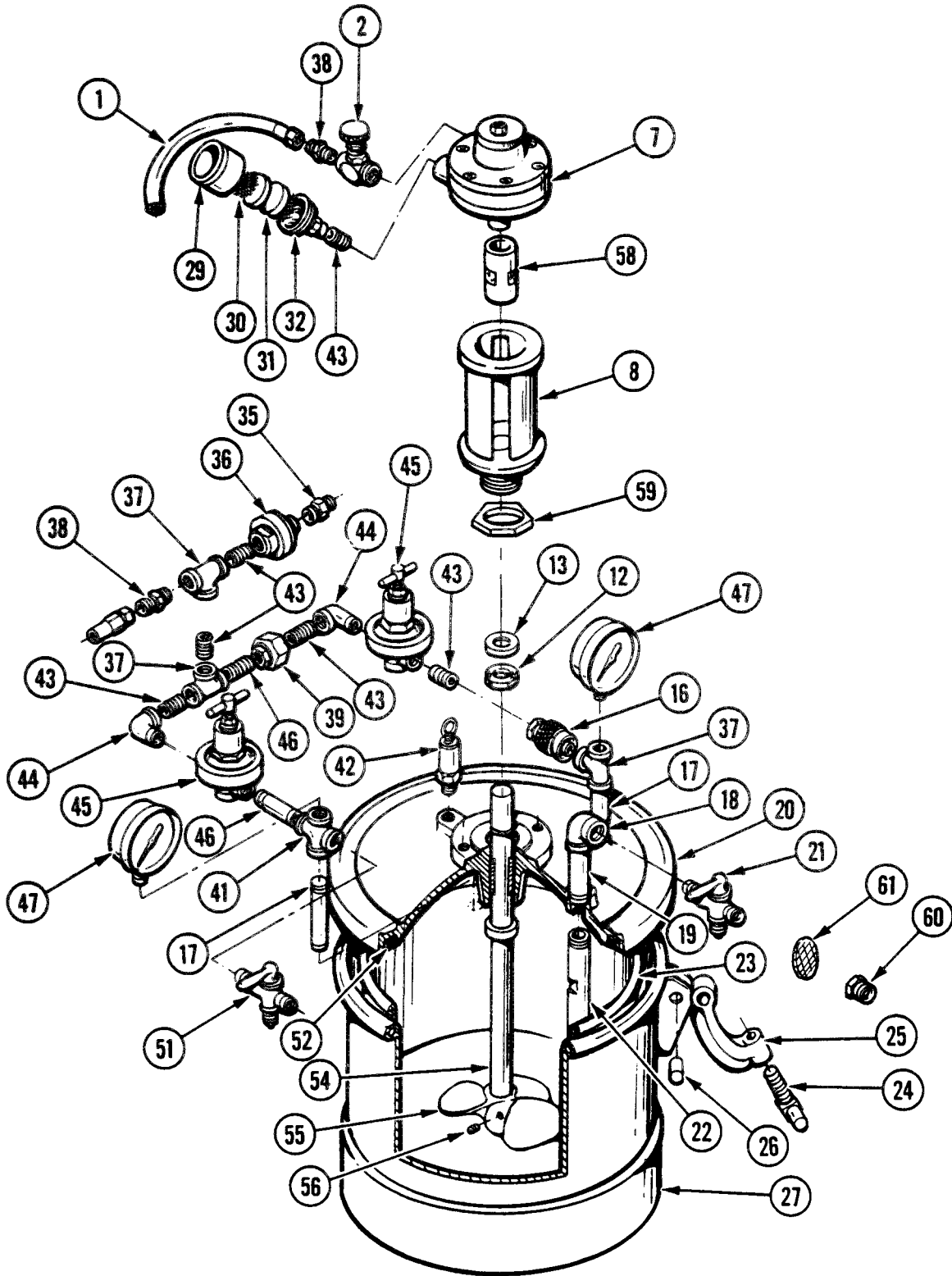
Clean head gasket and disc. Wipe exteriors of air gauges and safety valve with solvent-dampened cloth and dry with compressed air.





# parts list

## DIRECT DRIVE PRESSURE TANK



ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	50-6611	AIR TUBE ASSY.	1
2	6-4300	NEEDLE VALVE	1
7	9-4300-7	AIR MOTOR	1
8	20-5994	MOTOR SUPPORT	1
12	4-4301-1	PACKING	1
13	20-5991	PACKING WASHER	1
16	50-4581	SLIDE VALVE ASSY.	1
17	5-00-228-8	NIPPLE 1/4 NPT X 3-1/2	2
18	5-01-33-8	ELBOW	1
19	5-00-324-8	NIPPLE 3/8 NPT X 3	1
20	50-6524	COVER & BUSHING ASSY.	1
20	50-6646	COVER & BUSHING ASSY.	1
21	5-10-9	SHUT-OFF COCK 5/8-18	1
22	50-5005	FLUID POST	1
22	50-5005-1	FLUID POST	1
22	50-5005-13	FLUID POST	1
23	11-4351-1	INSERT PAIL, GALV.	1
23	11-4351-2	INSERT PAIL, GALV.	1
23	11-5294-1	INSERT PAIL, S.S.	1
23	11-5294-2	INSERT PAIL, S.S.	1
23	11-4419	INSERT PAIL, GALV. (OPTIONAL)	1
23	11-4420	INSERT PAIL, S.S.	1
24	11-5489	CLAMP SCREW	4
24	11-5486	CLAMP SCREW	4
25	11-5490	C CLAMP	4
25	11-5487	C CLAMP	4
26	11-5491	PIN	4
26	11-5488	PIN	4
27	50-5004	TANK ONLY	1
27	50-5004-1	TANK ONLY	1
27	11-5460	TANK ONLY	1
28	50-4419-1	MUFFLER ASSY.	1
29	20-4439-1	CAP	1
30	20-4438-1	SCREEN	2
31	20-4435-1	FELT	2
32	20-4440-1	BASE	1
36	11-5529	AIR FILTER	1
37	5-03-222-8	TEE 1/4 NPT	3
35	20-4400-1	FITTING 1/4 NPT X 5/8-18	1
38	20-4400-4	FITTING 1/4 NPT X 1/4 NPS	2
39	5-05-22-8	UNION 1/4 NPT	1
41	5-06-2222-8	CROSS 1/4 NPT	1
42	6-4315-100	SAFETY VALVE	1
43	5-00-207-8	NIPPLE 1/4 NPT X 7/8	6
44	5-02-22-8	STREET ELL 1/4 NPT	2
45	6-4420	PRESSURE REGULATOR	2
46	5-00-220-8	NIPPLE 1/4 NPT X 2-1/2	1
46	5-00-212-8	NIPPLE 1/4 NPT X 1-1/2	1
47	6-4325-160	PRESSURE GAUGE	2
51	5-10-2	SHUT-OFF COCK 1/4 NPT X 5/8-18	1
51	5-10-4	SHUT-OFF COCK 1/4 NPT X 1/4 NPS	1
52	4-4330	GASKET	1
52	4-4425	GASKET	1
54	20-5993	SHAFT	1
54	20-5994	SHAFT	1
54	20-6065	SHAFT	1
55	20-5082	PROPELLER	1
55	11-5694	PROPELLER	1
56	1-05-1004-5	SET SCREW	1
58	11-5693	COUPLING	1
59	1-10-29-3	NUT 1-1/4"-12	1
60	20-4570-4	ADAPTER	1
61	11-4126	FLUID STRAINER	1

By Order of the Secretary of the Army:

**E. C. MEYER**  
*General, United States Army*  
*Chief of Staff*

Official:

**J. C. PENNINGTON**  
*Major General, United States Army*  
*The Adjutant General*





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