

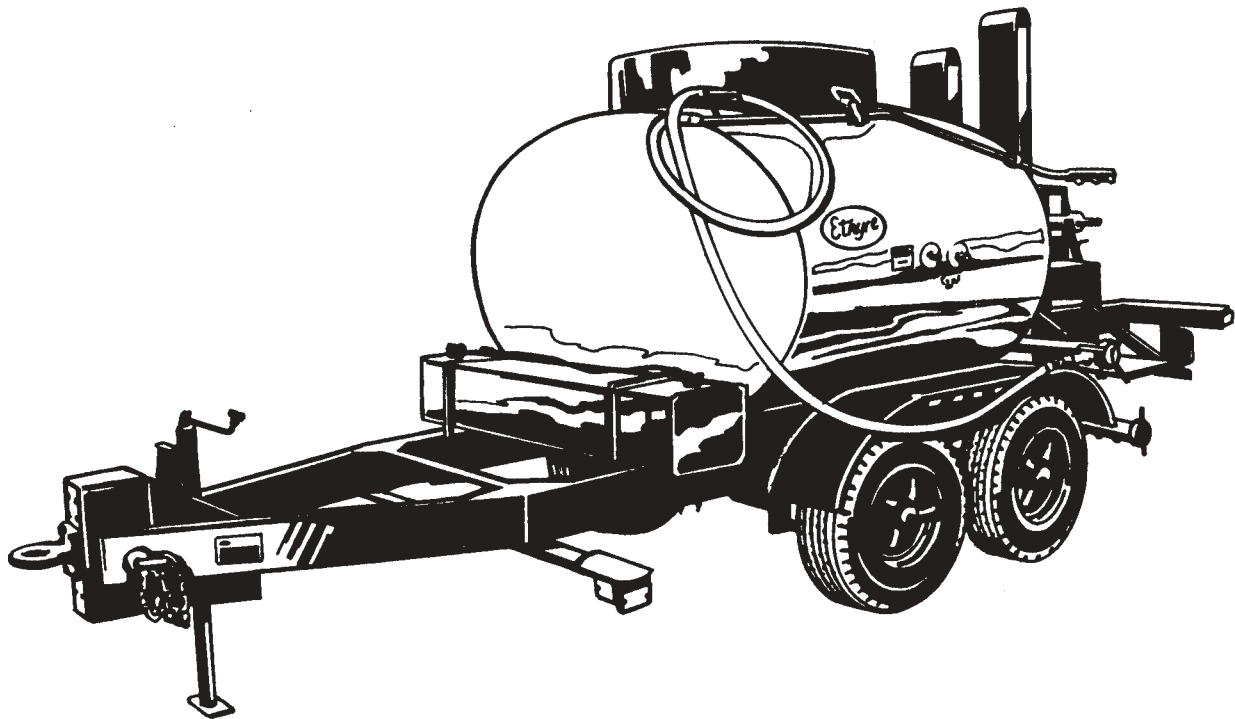
M-403-95

Serial Numbers: M4148, M4149, M4161 and up.



MAINTENANCE DISTRIBUTOR

**OPERATION, MAINTENANCE, PARTS
and SAFETY MANUAL**



E. D. ETNYRE & CO., Oregon, Illinois 61061

How To Order Parts & Warranty
M-403-95
MAINTENANCE DISTRIBUTOR
OPERATION, MAINTENANCE, PARTS and SAFETY MANUAL

Serial Numbers M4148, M4149, M4161 and up.

HOW TO ORDER PARTS

To assure prompt delivery when ordering parts, please furnish the following information:
1) Complete name and address of consignee. 2) Method of shipment preferred. 3) Is shipment to be prepaid or collect? 4) Serial numbers of units to which parts apply. 5) Complete part numbers and descriptions. 6) Any special instructions.

Specify unit serial number when ordering parts!

WARRANTY

E.D. Etnyre & Co. warrants to the original Purchaser, it's new product to be free from defects in material and workmanship for a period of twelve (12) months after date of delivery to original Purchaser. The obligation of the Company is limited to repairing or replacing any defective part returned to the Company and will not be responsible for consequential damages or any further loss by reason of such defect.

The company excludes all implied warranties of merchantability and fitness for a particular purpose. There are no warranties, express or implied, which extend beyond the description of the goods contained in this contract.

This warranty does not obligate the Company to bear the cost of machine transportation in connection with the replacement or repair of defective parts, nor does it guarantee repair or replacement of any parts on which unauthorized repairs or alterations have been made or for components not manufactured by the Company except to the extent of the warranty given by the original Manufacturer.

This warranty does not apply to:

- (1) Normal start-up services, normal maintenance services or adjustments usually performed by the selling dealer, factory service representative or customer personnel.
- (2) Any product manufactured by E.D. Etnyre & Co. purchased or subjected to rental use.
- (3) Any product or part thereof which shows improper operation, improper maintenance, abuse, neglect, damage or modification after shipment from factory.
- (4) Any product or part thereof damaged or lost in shipment. Inspection for damage should be made before acceptance or signing any delivery documents releasing responsibility of the delivering carrier.

This warranty and foregoing obligations are in lieu of all other obligations and liabilities including negligence and all warranties of merchantability or otherwise, express or implied in fact or by law.



E. D. ETNYRE & CO., Oregon, Illinois 61061-9778

1333 South Daysville Road Phone: 815/732-2116 Fax: 815-732-7400 Telex: MCI 6505104321

Warnings

! WARNING



6"
min.

150 mm. min.

Do not light burners unless flues are covered. Explosion can occur causing death or serious injury.

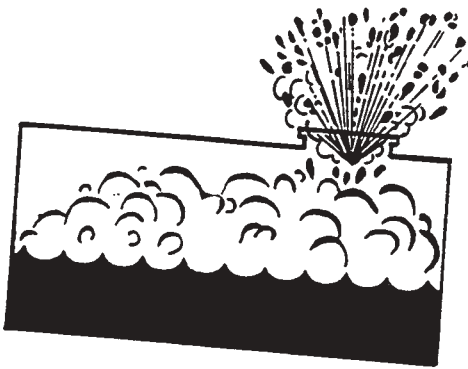
Do not light burners with less than:

Lower Burner
Lit. Gal.

Upper Burner
Lit. Gal.

3390636

! WARNING



Do not change asphalt grades without reading operators manual. Explosion can occur causing death or serious injury.

3390637

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Caution

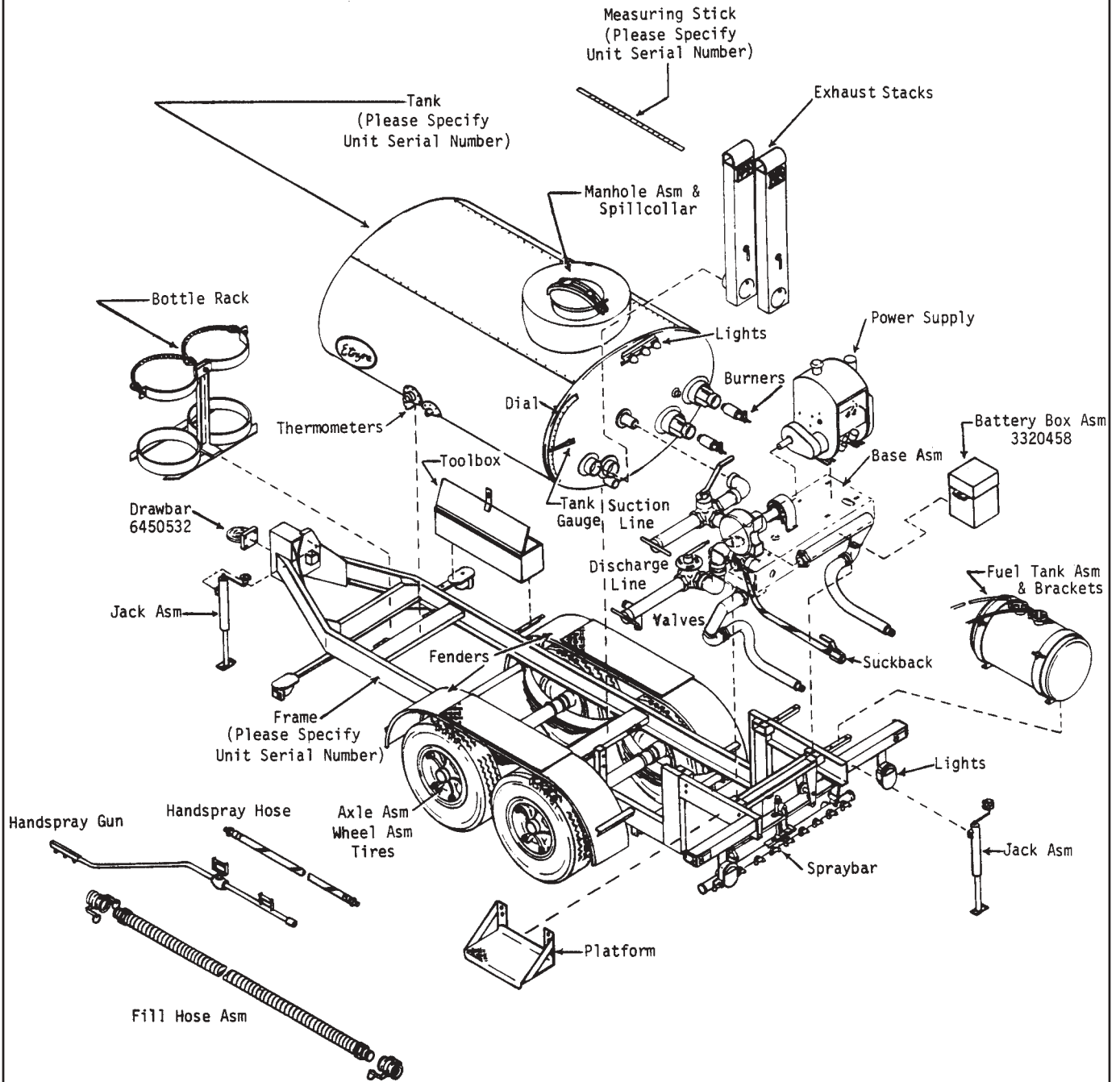
- 1 Always have dry chemical type extinguisher available and in good condition.
- 2 After one week then monthly check all body mounting tie downs and fasteners. On trailer units check king pin plate fasteners and all suspension and running gear components.
- 3 Lit cigarettes or other sources of combustion must remain clear of open manholes or overflow vents to reduce fire hazard.
- 4 Sparks from engine exhaust can be a source of ignition to volatile gases.
- 5 Remain clear of rotating drives when unit is in operation to prevent becoming entangled in machine.
- 6 Use gloves or insulated material when handling spray bar, sections, or hoses to prevent burns.
- 7 Monthly check and if necessary clean 2 inch overflow tube to insure tube has not become clogged.
- 8 Open manhole slowly to relieve pressure that may exist in tank.
- 9 All pipe and hose connections must be secure before operating valves to eliminate leaks which may spray hot bitumen on other personal.
- 10 Keep unit clean for safety and operation.
- 11 Keep area clear of open flame or sparks when spraying material with volatile cutbacks to reduce fire hazard.

The use of a Maintenance Distributor normally requires the handling of liquid materials at elevated temperatures. Additionally, these materials may be of a volatile nature. A heating system is supplied to provide or maintain these temperatures and these systems use highly combustible fuels. The Maintenance Distributor is a piece of operating equipment and must be carefully maintained and operated. Because these requirements involve potentially hazardous situations, we are calling attention to them for your safety. Appropriate cautions are listed below; and, wherever they occur in the operating instructions, they will be identified by a Caution Symbol.

- 12 Do not stand in a location such that accidental opening of spray bar valves will cause contact with bitumen spray resulting in burns.
- 13 Fill line cap or connection must be securely attached before operating intake valve lever to eliminate momentary discharge.
- 14 If moisture is present in tank, do not load with material having a temperature over 200 degrees F. When filling unit in which moisture may be present in the spray bar or circulating system, allow a small portion of hot material to circulate in bar before filling tank thus preventing foaming.
- 15 If moisture is present do not heat material over 200 degrees F.

- 16 When heating material, position unit broadside to wind, if possible.
- 17 Use of gasoline instead of required kerosene or fuel oil on generating or low pressure burners will result in an extreme fire hazard.
- 18 Cover flues at least 6" before heating material to prevent explosion.
- 19 Allow sufficient space in tank for expansion of material when heating.
- 20 Do not remove material from tank while burners are in operation or automatic burner controls are set to operate.
- 21 Do not operate burners unattended or while vehicle is in transit or in a confined area.
- 22 Avoid heating material in leaking tank.
- 23 For personnel safety, use torch (not match or lighter) to ignite burner.
- 24 Ignite far burner first. Do not reach across a lit burner to ignite other burner.
- 25 When burners go out, allow flues to ventilate before reignition.
- 26 Do not heat material beyond manufacturers recommended temperature.
- 27 When handspraying, maintain gun in proper position and be aware of other personnel.

General Identification



Application Chart

ETNYRE APPLICATION CHART NUMBER 9050001

(Using 1/8" Nozzles)

Gal. Per Sq. Yd.	Bitumeter Reading F.P.M.	PUMP TACHOMETER READING G.P.M.								
		4' Bar	5' Bar	6' Bar	7' Bar	8' Bar	9' Bar	10' Bar	11' Bar	12' Bar
.10	900	40	50	60	70	80	90	100	110	120
.20	450	40	50	60	70	80	90	100	110	120
.30	300	40	50	60	70	80	90	100	110	120
.40	225	40	50	60	70	80	90	100	110	120
.50	180	40	50	60	70	80	90	100	110	120
.60	150	40	50	60	70	80	90	100	110	120
.70	130	40	50	60	70	80	90	100	110	120
.80	110	40	50	60	70	80	90	100	110	120
.90	100	40	50	60	70	80	90	100	110	120
1.00	90	40	50	60	70	80	90	100	110	120
1.10	80	40	50	60	70	80	90	100	110	120
1.20	75	40	50	60	70	80	90	100	110	120
1.30	70	40	50	60	70	80	90	100	110	120
1.40	64	40	50	60	70	80	90	100	110	120
1.50	60	40	50	60	70	80	90	100	110	120
1.60	56	40	50	60	70	80	90	100	110	120
1.70	53	40	50	60	70	80	90	100	110	120
1.80	50	40	50	60	70	80	90	100	110	120
1.90	47	40	50	60	70	80	90	100	110	120
2.00	45	40	50	60	70	80	90	100	110	120

NOTE: USE ABOVE CHART OR ETNYRE COMPUTATOR

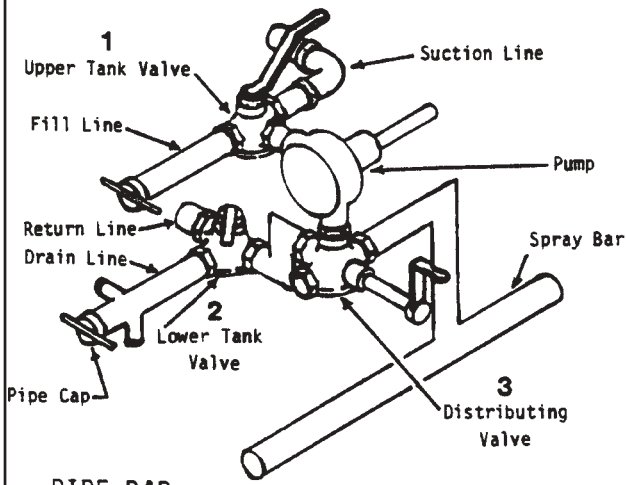
Application Chart - Metric

ETNYRE TACHOMETER CHARTS

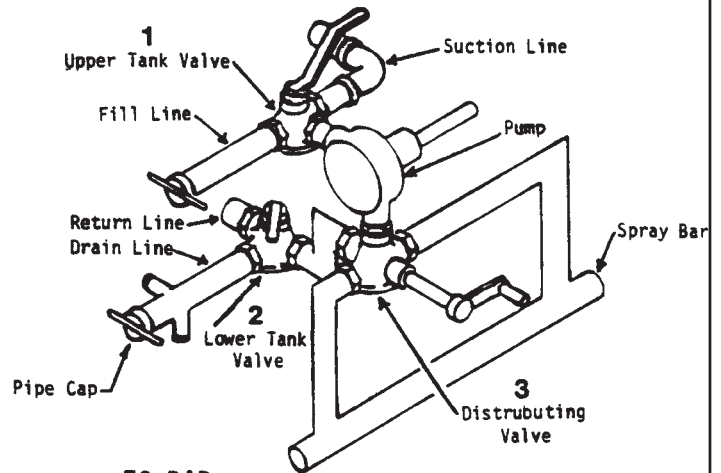
8 FEET TO 15 FEET (2.44 METERS TO 4.57 METERS) OF SPRAY BAR FOR USE WITH FIFTH WHEEL DRIVE – BITUMETER READING IN METERS PER MINUTE AND PUMP TACHOMETER READING IN LITERS PER MINUTE

Liters Per Square Meter	Meters per Minute Bitumeter Reading	Spray Bar length in	READINGS IN LITERS PER MINUTE							
		Meters	2.44	2.74	3.05	3.35	3.66	3.96	4.27	4.57
		Feet	8	9	10	11	12	13	14	15
0.5	248	Pump tachometer readings in liters per minute	304	342	380	418	456	494	532	570
1.0	124		304	342	380	418	456	494	532	570
1.5	83		304	342	380	418	456	494	532	570
2.0	62		304	342	380	418	456	494	532	570
2.5	50		304	342	380	418	456	494	532	570
3.0	42		304	342	380	418	456	494	532	570
3.5	36		304	342	380	418	456	494	532	570
4.0	31		304	342	380	418	456	494	532	570
4.5	28		304	342	380	418	456	494	532	570
5.0	21		304	342	380	418	456	494	532	570
6.0	20		304	342	380	418	456	494	532	570
7.0	18	304	342	380	418	456	494	532	570	
8.0	15.5	304	342	380	418	456	494	532	570	
9.0	14.0	304	342	380	418	456	494	532	570	
10.0	12.4	304	342	380	418	456	494	532	570	

Operating Instructions



PIPE BAR



FC BAR

General

There are 3 control valve levers at rear of unit.

1. Upper valve lever (1), operates the 3-way valve (suction valve) between tank and pump.
2. Lower valve lever (2), operates the 3-way

valve (return valve) between pump and tank.

3. Rear valve lever (3), operates the 4-way valve (distributing valve) between pump and spray bar, also between pump and return valve.

VALVE LEVER POSITIONING CHART

Operation	As Viewed From Operators Platform		As Viewed From Rear
	Upper Tank Valve - (1)	Lower Tank Valve - (2)	Distributing Valve - (3)
Fill Tank Thru Manhole	☉ Fill	☉ Transfer	☉ Circulate
Fill Tank Thru Pump	☉ Fill	☉ Circulate	☉ Circulate
Circulate In Tank	☉ Circulate	☉ Circulate	☉ Circulate
Circulate in Pump, Piping and FC Bar	☉ Material Circulate	☉ Circulate	☉ Circulate in Bar
	☉ Kerosene Fill	☉ Transfer	☉ Circulate in Bar
Spray From Tank Thru Pipe Bar	☉ Circulate	☉ Circulate	☉ Distribute (Pipe Bar)
Spray From Tank Thru FC Bar	☉ Circulate	☉ Circulate	☉ Distribute (FC Bar)
Spray From Tank Thru Handspray Gun	☉ Circulate	☉ Handspray	☉ Circulate
Drain Tank and Piping	☉ Circulate	☉ Transfer	☉ Distribute (FC Bar)
Drain Piping Only	☉ Fill	☉ Transfer	☉ Distribute (FC Bar)
Draw-Off At Left Rear	☉ Fill	☉ Drain	☉ Circulate
Transfer	☉ Circulate	☉ Transfer	☉ Circulate

Preparing For Operation

1. Tighten all bolts on unit that may have loosened in transit. Check oil in power unit. Export units are processed to prevent corrosion in shipment. These engines should be turned over several times, then drained, flushed out and refilled with proper crankcase oil for operating conditions. Check gear lubricant in transmission. Refer to engine owner's manual for detailed engine instructions.

2. Check oil level in air cleaners. Lubricate all control linkage bearings and joints with light oil.

3. Turn control levers to "Drain" position to remove any testing oil or condensation from circulating system. Close drain control levers.

4. Install nozzles in spray bar and adjust so that angle between slot and bar centerline is approximately 30 degrees. A special wrench for this purpose is in the tool box.

5. Lower spray bar and adjust so that nozzles are about 12 inches from road when tank is empty. At this height, spray fans will properly overlap for triple lap coverage. Under heavy wind conditions it may be necessary to lower bar further.

5 6. Start engine, set at fast idle speed, and engage clutch easily to be sure pump is free and all parts and instruments are in proper working order. Do not operate the pump for long periods without bitumen to supply lubrication.

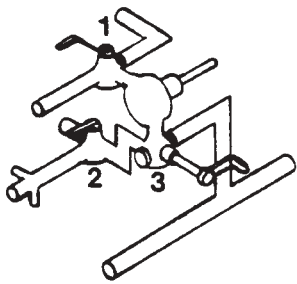
7. Check fill line strainers for contamination.

CAUTION

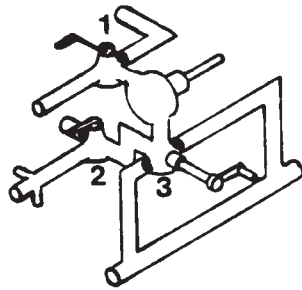
5 Remain clear of rotating drives when unit is in operation to prevent becoming entangled in machine.

Filling

Filling Through Manhole



PIPE BAR



FC BAR

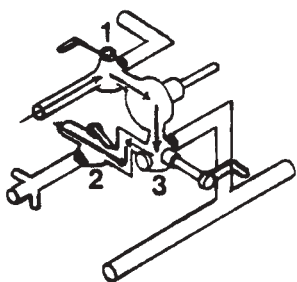
- 3** 1. Always use manhole strainer unless you are sure that material is free of all foreign matter.

2. If you do not want material to enter pump and circulating system, turn upper valve lever (1) to "Fill" position, turn lower valve lever (2) to "Transfer" position, and distributing valve lever (3) to "Circulate in tank" position.

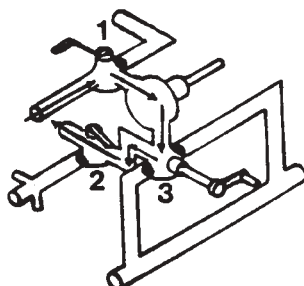
- 18** 3. If you expect to heat material further in tank, allow sufficient space for expansion.

- 14** 4. If tank is to be filled with hot bitumen, proceed cautiously if there is any moisture in the tank, or if emulsion was used in the previous load. Dow-Corning DC-200 may be used to prevent foaming. DC-200 may be purchased from E. D. Etnyre and Co.

Filling Through Fill Line



PIPE BAR



FC BAR

1. Check fill line strainer and clean if needed. Always use strainer.

- 13** 2. Connect fill hose to supply and to fill line on left side of unit. Be sure all connections are tight.

3. When connecting to tank car, connect 3-way valve to tank car coupling and then connect hose to this valve. You can then shut off tank car from underneath and pump suction will clean bitumen from hose by drawing air through vent in valve.

4. Bitumen in supply tank should be heated sufficiently so that it will not set-up in the hose or in the unit circulating system.

5. Turn upper valve lever (1) to "Fill" position, turn lower valve lever (2) to "Circulate" position, turn distributing valve lever (3) to "Circulate" position.

6. If pump, bar and circulating system was not drained and flushed after previous use, heat thoroughly before trying to start pump. Do not try to break loose a frozen pump by slipping or sudden engagement of the clutch. When handling heavier bitumens it may also be necessary to preheat the circulating system so that the first material to enter the pump will not be chilled sufficiently to stop the pump. A portable burner is available for preheating the circulating system.

- 4** 7. On units equipped with engine exhaust heating, it is possible to heat the pump by exhaust gases. This is accomplished by positioning the butterfly valve on the exhaust pipe to the heating position. It is recommended that the valve be returned to the normal exhaust position after sufficient heating is obtained.

8. Open valve at supply tank.

- 15** 9. If you plan on heating material further in
18 unit, allow sufficient space for expansion.

10. Close valve at supply tank and vent fill hose when tank has filled sufficiently.

Filling

11. Turn upper valve lever (1) to "Circulate" position. You are now circulating in the tank.

NOTE: If you have heavy material that may set up in the pump, allow engine to idle and circulate material in tank until ready to spray.

CAUTION

- ▲³ Lit cigarettes or other sources of combustion must remain clear of open manholes or overflow vents to reduce fire hazard.
- ▲⁴ Sparks from engine exhaust can be a source of ignition to volatile gases.
- ▲¹³ Fill line cap or connection must be securely attached before operating intake valve lever to eliminate momentary discharge.
- ▲¹⁴ If moisture is present in tank, do not load with material having a temperature over 200 degrees F. When filling unit in which moisture may be present in the spray bar or circulating system, allow a small portion of hot material to circulate in bar before filling tank thus preventing foaming.
- ▲¹⁵ If moisture is present do not heat material over 200 degrees Fahrenheit.
- ▲¹⁸ Cover flues at least 6" before heating material to prevent explosion.

Heating



High Pressure Generating Burners

1. Use clean, moisture-free kerosene.
2. You can circulate bitumen in tank or not; however, you will heat faster and with less carbon formation on flues if you circulate while heating.
3. Correct fuel pressure should be between 45 and 50 P.S.I. (Note: Fuel pressure should be set while circulating at 75 G.P.M.) If less, inspect strainers, etc. for possible obstructions. If you are sure pump is getting sufficient fuel, then check pressure relief valve.
- 18 4. Do not light burners unless you are sure flues are covered at least 6 inches the full length of the tank.
5. Open exhaust stack dampers.
- 23 6. To light burners, spread wick in pan so that fire will be under coil and vaporizing plug; hold finger over vaporizing plug to prevent fuel from squirting into flue; open needle valve slightly and shut off when pan is 1/4 full. Ignite wick and wait until gas issues from vaporizing plug; then open needle valve slightly. If coil is generating properly, an almost colorless gas will issue from vaporizing plug. Open valve as necessary to obtain a bright orange flame.
- 24 7. A short blue flame that is easily extinguished indicates over-generation in the coils, caused by a vaporizing plug opening that is too small or carbon formation in coil. Particles of carbon can be cleared from vaporizing plug while burner is in operation with burner cleaner furnished with unit. If flame is still short and blue, bore out vaporizing plug with No. 54 drill, if necessary, burn carbon from coil by removing coil from burner and placing vertically in a vise with plug pointing down. Heat half of top coil to color; add oxygen cautiously to open tube end. As carbon burns out, color will travel around and down coil. Use oxygen carefully.
8. A yellow smoky flame indicates that needle valve is open too far, causing under-generation. It can also be the result of too large a hole in vaporizing plug.
- 21 9. Do not leave burners unattended.
- 26 10. Do not heat bitumen over maximum spraying temperature recommended by supplier.
11. When burners are not in use, close exhaust stack dampers to prevent loss of heat.

- 20 12. Do not remove material from tank while burners are in operation or automatic burner controls are set to operate.



Liquid Petroleum Burners

1. These burners are designed for use with liquid only and must not be used with vapor.
2. You can circulate bitumen in tank or not; however, you will heat faster and with less carbon formation on flues if you circulate while heating.
- 18 3. Do not light burners unless you are sure flues are covered at least 6 inches the full length of tank.
4. Open exhaust stack dampers.
5. Before lighting burners, be sure hand valve at burners is closed tight.
6. The valve on the supply tank or bottle should be opened only a quarter of a turn so that it may be closed quickly in case of a leak.
- 23 7. After opening the supply valve and checking quickly for leaks, light the burners. As soon as the burner is lit, open the hand valve at the burner to the full position. No preheating is necessary. Caution: The burner must be lit before opening hand valve at the burner. This valve has a built in by-pass and permits only enough gas to escape to operate as a pilot or stand-by. This by-pass hole must be kept open to prevent damage to the gauge and supply lines. After shutdown and before relighting burner, valve at burner must be closed.
- 24 8. Open supply valve at tank or bottle fully and regulate pressure so that the gauge reads between 20 and 25 P.S.I.
- 25 9. Adjust fire with hand valve at burner.
- 26 10. Do not leave burners unattended.
- 20 11. Do not remove material from tank while burners are in operation or automatic burner controls are set to operate.
12. To completely shut down burners, close valve at supply tank or bottle. However, if it is desired to use only the right burner, the left burner can be shut off by closing the auxiliary hand valve on the line between burners. Burners will continue to burn until fuel in the lines has been consumed. Special Notes: When burner is operating properly,

Heating

bottom side of burner and all of the feed lines and fittings back to the pressure regulator will frost over. If they do not frost over, it shows that the burner is operating on vapor instead of liquid. This must be corrected immediately or you will damage the burner. In case trouble is experienced with the pressure regulator freezing up, it is due to moisture in the gas. This can be overcome by adding 1 pint of genuine absolute Anhydrous Methanol (99.85% pure) per 100 gallons of fuel when tank is filled. Always keep tank valve closed when tank or bottle is empty.

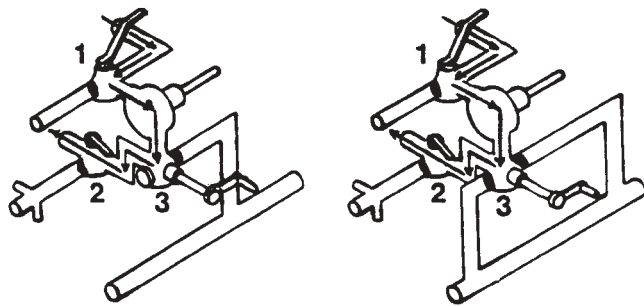
13. When burners are not in use, close exhaust stack dampers to prevent loss of heat.

CAUTION

- ▲ 1 Always have dry chemical-type fire extinguisher available and in good condition.
- ▲ 5 Remain clear of rotating drives when unit is in operation to prevent becoming entangled in machine.
- ▲ 10 Keep unit clean for safety and operation.
- ▲ 16 When heating material, position unit broadside to wind, if possible.
- ▲ 17 Use of gasoline instead of required kerosene or fuel oil on generating or low pressure burners will result in an extreme fire hazard.
- ▲ 18 Cover flues at least 6" before heating material to prevent explosion.
- ▲ 19 Allow sufficient space in tank for expansion of material when heating.
- ▲ 20 Do not remove material from tank while burners are in operation or automatic burner controls are set to operate.
- ▲ 21 Do not operate burners unattended or while vehicle is in transit or in a confined area.
- ▲ 23 For personnel safety, use torch (not match or lighter) to ignite burner.
- ▲ 24 Ignite far burner first, do not reach across a lit burner to reignite other burner.
- ▲ 25 When burners go out, allow flues to ventilate before reignition.
- ▲ 26 Do not heat material beyond manufacturers recommended temperature.

Circulating

Circulate In Tank



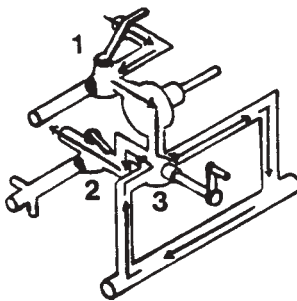
PIPE BAR

FC BAR

See valve lever positioning chart, page 8 for lever positions.

1. Turn upper tank valve lever (1) to "Circulate" position.
2. Turn lower tank valve lever (2) to "Circulate" position.
3. Turn distributing valve lever (3) to "Circulate" position.

Circulate In Bar (FC Bar Only)



See valve lever positioning chart, page 8 for lever positions.

1. Turn upper tank valve lever (1) to "Circulate" position.
2. Turn lower tank valve lever (2) to "Circulate" position.
3. Turn distributing valve lever (3) to "Circulate in Bar" position.

General

Circulate long enough to insure removal of all air from bar and to heat valves.

Pump speed should not exceed 75 G.P.M.

For Heating

Material will heat more rapidly if circulated in tank when burners are operating. Circulate at 75 G.P.M.

CAUTION

- 3 Lit cigarettes or other sources of combustion must remain clear of open manholes or overflow vents to reduce fire hazard.
- 5 Remain clear of rotating drives when unit is in operation to prevent becoming entangled in machine.
- 6 Use gloves or insulated material when handling spray bar, sections, or hoses to prevent burns.
- 9 All pipe and hose connections must be secure before operating valves to eliminate leaks which may spray hot bitumen on other personnel.
- 12 Do not stand in a location such that accidental opening of spray bar valves will cause contact with bitumen spray resulting in burns.

Spraying

General

1. Correct spray cannot be obtained unless bitumen is heated to proper spraying temperature. Cold bitumen will not give sharp spray edges and will cause streaking.

2. Set engine throttle for spraying requirements, pump speed should be: 10 G.P.M. per foot of bar with 1/8 inch nozzles.

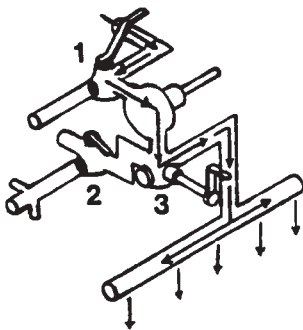
Example: 60 G.P.M. for 6 foot spray bar length.

3. Nozzle slot should make an angle of approximately 30 degrees with bar centerline and every nozzle should be at the same angle.

4. Nozzle height of about 12 inches above road will give triple lap coverage.

5. Drain and flush out pump, bar and circulating system after each days' use, unless oil is so light that it will not set-up when cold.

Spraying – Pipe Bar



See valve lever positioning chart, page 8, for lever positions.

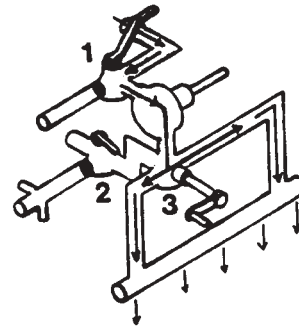
1. Adjust spray bar to length desired.

2. While circulating in tank, adjust engine throttle to desired pump speed.

3. Turn distributing valve lever (3) to "Distribute" position.

4. To stop spraying, return distributing valve lever to "Circulate" position.

Spraying – FC Bar



See valve lever positioning chart, page 8, for lever positions.

1. Adjust spray bar to length desired.

2. While circulating in bar adjust engine throttle to desired pump speed.

3. Turn distributing valve lever (3) to "Distribute" position.

4. To stop spraying, turn distributing valve lever 180 degrees to "Circulate," then return to "Circulate in Bar" position if desired.

CAUTION

5. Remain clear of rotating drives when unit is in operation to prevent becoming entangled in machine.

6. Use gloves or insulated material when handling spray bar, sections, or hoses to prevent burns.

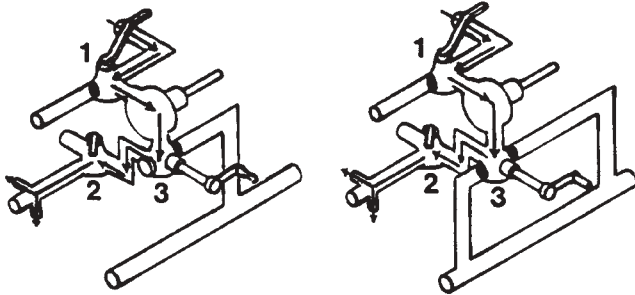
11. Keep area clear of open flame or sparks when spraying material with volatile cutbacks to reduce fire hazard.

12. Do not stand in a location such that accidental opening of spray bar valves will cause contact with bitumen spray resulting in burns.

20. Do not remove material from tank while burners are in operation or automatic burner controls are set to operate.

Handspraying

Handspraying



PIPE BAR

FC BAR

See valve lever positioning chart, page 8, for lever positions.

1. Start with controls in "Circulate in Tank" position.
2. Connect handspray hose to outlet at left rear of unit.
3. Close valve at handspray gun.
4. Turn lower tank valve lever (2) to "Hand-spray" position.
5. If pressure is too great on handspray gun, turn lower tank valve lever toward pump.

When Through Handspraying

1. Turn lower tank valve lever (2) to "Circulate" position.
2. To blow out handspray, turn upper valve lever (1) to "Fill" position, and lower valve lever (2) to "Transfer" position; remove fill line cap, and open handspray gun valve. Add flushing oil if desired. When clean, close handspray gun valve and replace fill line cap.

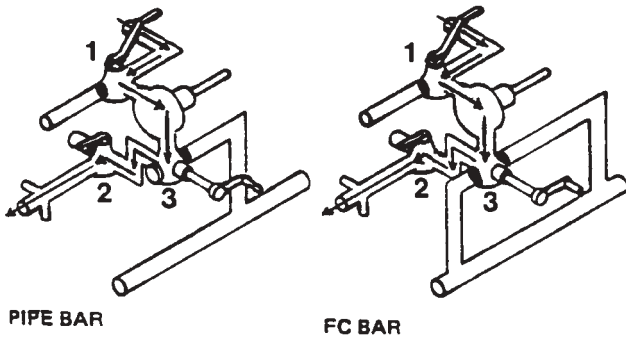
If it is undesirable to spray the material on the ground, it can be discharged into the tank through the manhole. Flushing oil should be discharged into a pail or other container.

CAUTION

- 5 Remain clear of rotating drives when unit is in operation to prevent becoming entangled in machine.
- 6 Use gloves or insulated material when handling spray bar, sections, or hoses to prevent burns.
- 11 Keep area clear of open flame or sparks when spraying material with volatile cutbacks to reduce fire hazard.
- 20 Do not remove material from tank while burners are in operation or automatic burner controls are set to operate.
- 27 When handspraying, maintain gun in proper position and be aware of other personnel.

Transferring

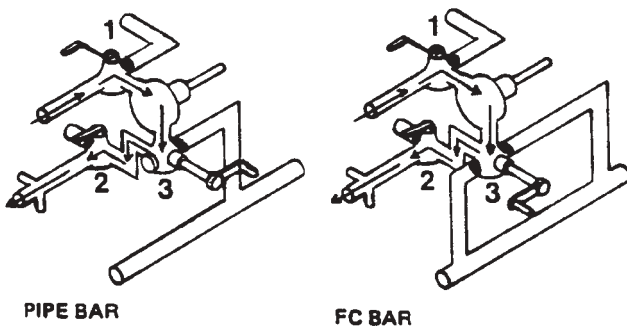
To Transfer From Tank To Storage



1. Turn upper tank valve lever (1) to "Circulate" position.
2. Turn lower tank valve lever (2) to "Transfer" position.
3. Turn distributing valve lever (3) to "Circulate" position.
4. Connect hose from storage to connection at transfer line.
5. Start engine. Run pump at maximum speed where it will run quietly. Normally 75 G.P.M. is best transfer speed.

6. Start engine. Run pump at maximum speed where it will run quietly. Normally 75 G.P.M. is best transfer speed.

To Transfer From Supply Source To Storage

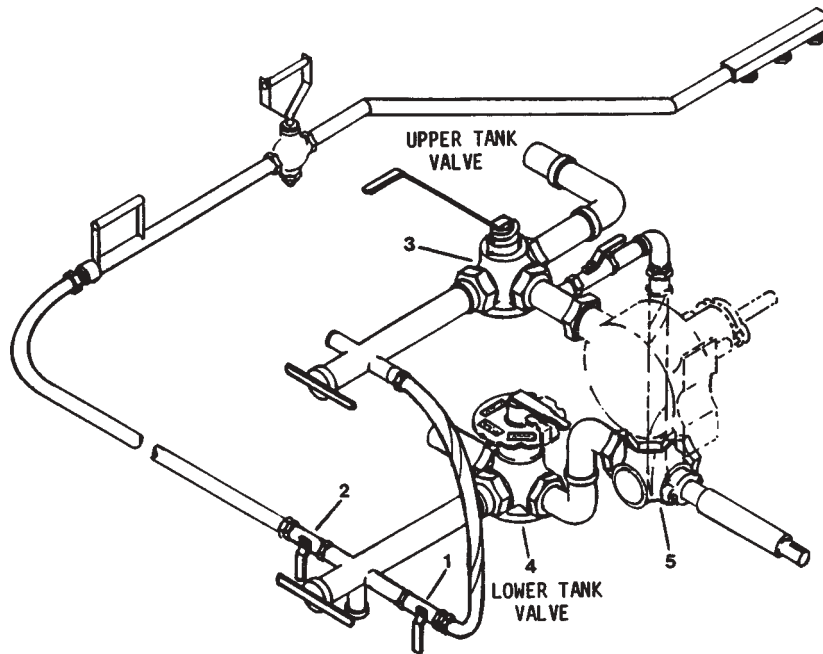


1. Turn upper tank valve lever (1) to "Fill" position.
2. Turn lower tank valve lever (2) to "Transfer" position.
3. Turn distributing valve lever (3) to "Circulate" position.
4. Connect hose from supply source to fill line.
5. Connect hose from storage to connection at drain line.

CAUTION

- 3 Lit cigarettes or other sources of combustion must remain clear of open manholes or overflow vents to reduce fire hazard.
- 5 Remain clear of rotating drives when unit is in operation to prevent becoming entangled in machine.
- 7 Monthly check and if necessary clean 2 inch overflow tube to insure tube has not become clogged.
- 10 Keep unit clean for safety and operation.
- 20 Do not remove material from tank while burners are in operation or automatic burner controls are set to operate.

Handspray & Handspray Suckback



Valves #1-#5

When handspraying Ball Valve #1 will be Closed and Ball Valve #2 will be Open.

To Suck Back hand spray, move Upper Tank Valve #3 to the FILL position.

Move the Lower Tank Valve #4 to the CIRCULATE position.

The Distributing Valve #5 remains in the CIRCULATE position.

(These Valves #3, #4 and #5 should be in the same position as during FILL TANK THRU PUMP OPERATION.)

1. Operate Engine at Max RPM and Open Ball Valve #1.
2. Open and Close the valve on the handspray gun while elevating the gun and hose for maximum cleaning.
3. After approximately 1 minute, Close Ball Valve #2 and continue clearing the hose for another 15-20 seconds.
4. If you wish you may place the end of the handspray gun in a container of diesel fuel and draw through the handspray gun and hose. This procedure will also cleanse the asphalt pump.

To prevent diesel fuel being drawn through the handspray hose and entering the tank, you may wish to install a second valve on the pump off line that can be opened after moving the Lower Tank Valve #4, to the Transfer position. This will allow the diesel fuel to be discharged into a separate container.

NOTE: Disengage clutch before moving the Lower Tank Valve #2 to the Transfer position and Open the Auxiliary Drain Valve added to pump off line, then Re-engage the clutch.

CAUTION: Wear EYE, FACE and HAND Protection to guard against potential injury from contact with material being discharged from Auxiliary Drain Valve.

FC Bar Suckback

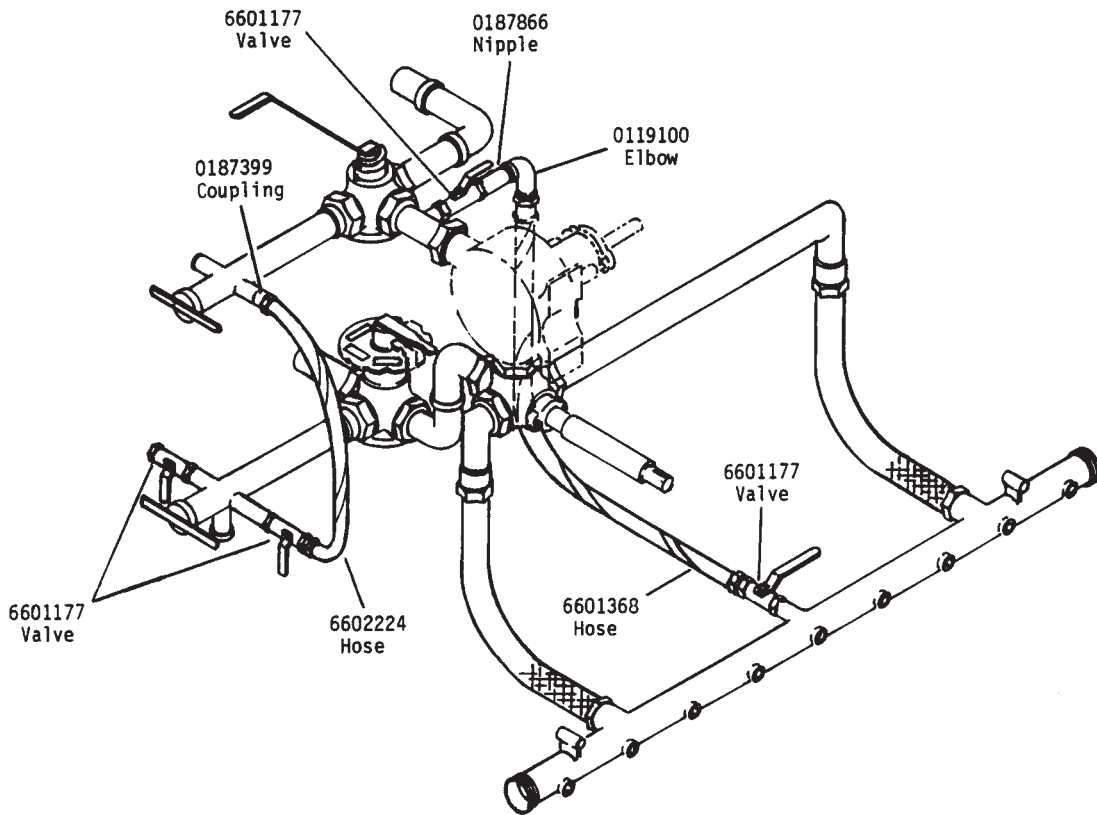


Figure #1

Ref. Figure #2

1. Raise Spray Bar to it's Maximun Height with hinges folded.
2. Place Valve #1 in the FILL position.
3. Place Valve #2 in the CIRCULATE position.
4. Place Valve #3 in the CIRCULATE position.
5. Engage engine clutch.
6. Increase engine RPM to Maximum.
7. Open Valves #4 and #5.
8. Several times during a 2 or 3 minute period open one of the wing spray bar valves for 8 or 10 seconds.
9. Close Valve #4 then #5.
10. Reduce engine speed to Half Throttle.
11. Open the diesel fuel washout valve
11. Open the Diesel Fuel Washout Valve at the pump for perhaps 1 minute to cleanse the pump.
12. If a partial load of material remains in the tank, turn Valve #2 to Transfer.

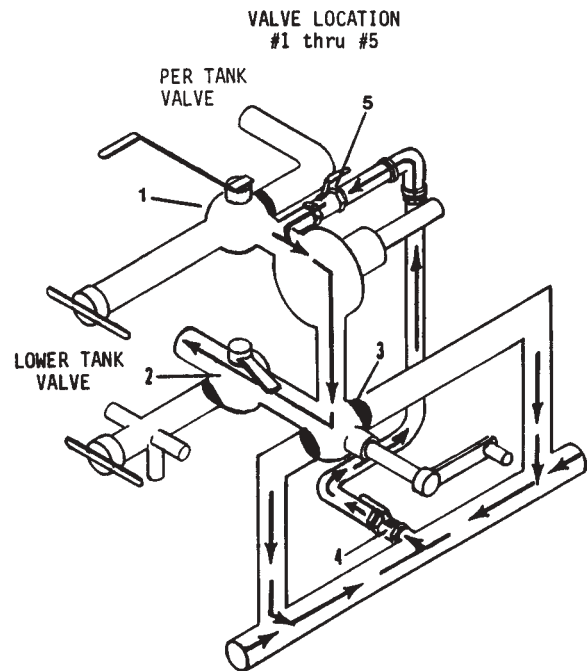
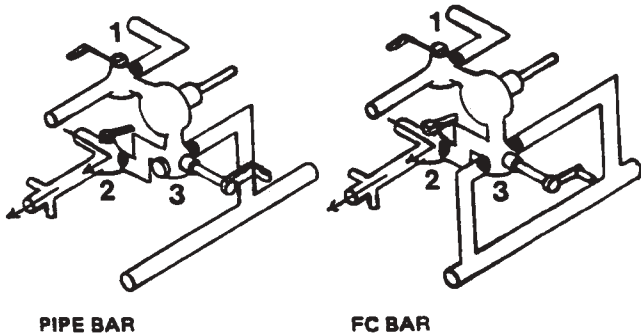


Figure #2

Draw- Off

Draw-Off At Left Rear (Gravity Draw-Off)



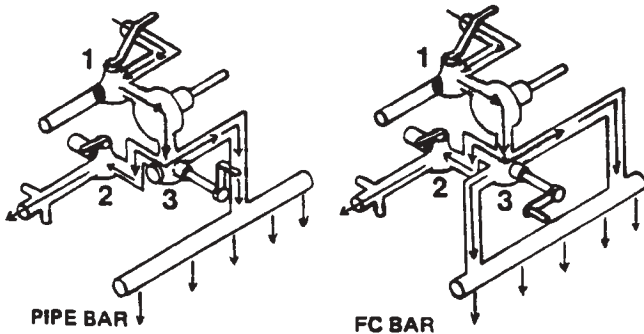
1. Turn upper tank valve lever (1) to "Fill" position.
2. Turn lower tank valve lever (2) to "Drain" position.
3. Turn distributing valve lever (3) to "Circulate" position.

CAUTION

- ▲ 3 Lit cigarettes or other sources of combustion must remain clear of open manholes or overflow vents to reduce fire hazard.
- ▲ 5 Remain clear of rotating drives when unit is in operation to prevent becoming entangled in machine.
- ▲ 7 Monthly check and if necessary clean 2 inch overflow tube to insure tube has not become clogged.
- ▲ 10 Keep unit clean for safety and operation.
- ▲ 20 Do not remove material from tank while burners are in operation or automatic burner controls are set to operate.

Draining

Drain Entire Unit



See valve lever positioning chart, page 8, for lever positions.

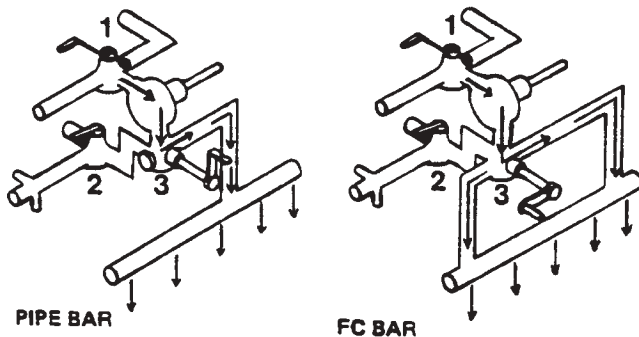
1. Transfer all material from tank.
2. Turn upper valve lever (1) to "Circulate" position.
3. Turn lower valve lever (2) to "Transfer" position.
4. Turn distributing valve lever (3) to "Distribute" position.
5. Remove drain plug from sump.
6. When draining operation is completed, replace drain plug in sump and turn distributing valve lever to "Circulate" position.

3. Turn distributing valve lever (3) to "Distribute" position.

4. Remove fill cap, and open spray nozzles on units with FC Bar.

5. It is necessary to run the pump for complete drainage of piping system. Normal draining speed is low idle.

Drain Piping Only



See valve lever positioning chart, page 8, for lever positions.

1. Turn upper valve lever (1) to "Fill" position.
2. Turn lower valve lever (2) to "Transfer" position.

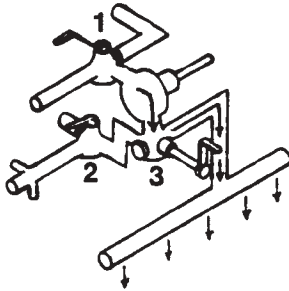
CAUTION

3 Lit cigarettes or other sources of combustion must remain clear of open manholes or overflow vents to reduce fire hazard.

5 Remain clear of rotating drives when unit is in operation to prevent becoming entangled in machine.

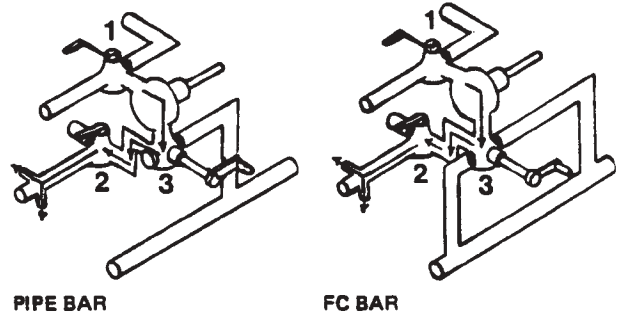
Flushing

Flushing Piping System – Pipe Bar With Material In Tank



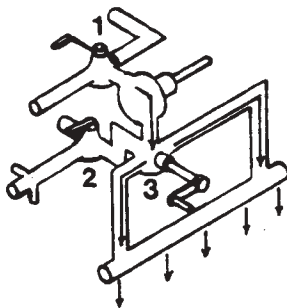
1. After draining piping system, and with pump running, open flushing oil valve.
2. When flushing oil runs out of spray nozzles, turn off flushing oil valve and drain residual material before subsequent recirculation.

Flushing Handspray Hose and Gun With Material In Tank



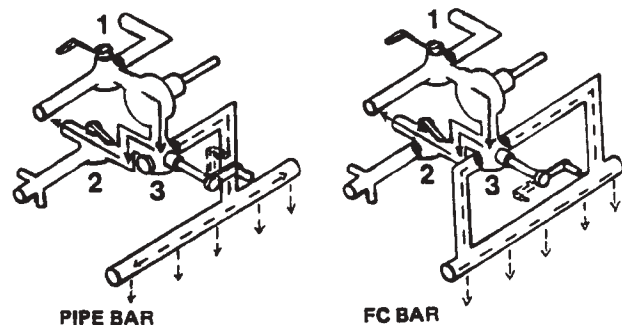
1. After draining piping system, and with pump running, open flushing oil valve.
2. When flushing oil runs out of spray bar nozzles, turn distributing valve lever (3) to "Circulate" position and open handspray gun valve.
3. After hose and gun are cleaned, turn off flushing oil valve and drain residual material before subsequent recirculation.

Flushing Piping System – FC Bar With Material In Tank



1. After draining piping system, and with pump running, open flushing oil valve.
2. After a few minutes, open spray nozzle valves by turning distributing valve lever (3) to "Distribute" position. When flushing oil comes out of spray nozzles, turn off flushing oil valve and drain residual material before subsequent recirculation.

Flushing Piping System And Tank



1. After draining entire unit, and with pump running, open flushing oil valve.
2. Turn upper tank valve lever (1) to "Fill" position.
3. Turn lower tank valve lever (2) to "Circulate" position.

Flushing

4. Turn distributing valve lever (3) to "Circulate in Bar" position on units with FC Bar; or to "Distribute" position on units with pipe bar.

5. After a few minutes (on units with FC bar) open spray nozzle valves by moving distributing valve lever to "Distribute" position. When flushing oil comes out of spray nozzles, turn distributing valve to "Circulate" position on units with pipe bar or close nozzle valves on units with FC bar by moving distributing valve lever 180 degrees to "Circulate" position.

6. When about 5 gallons of flushing oil have entered tank, turn off flushing oil valve and circulate flushing oil until lines are clean.

7. After flushing operation, drain residual material before subsequent recirculation.

CAUTION

- ▲³ Lit cigarettes or other sources of combustion must remain clear of open manholes or overflow vents to reduce fire hazard.
- ▲⁵ Remain clear of rotating drives when unit is in operation to prevent becoming entangled in machine.
- ▲⁷ Monthly check and if necessary clean 2 inch overflow tube to insure tube has not become clogged.
- ▲¹⁰ Keep unit clean for safety and operation.

Maintenance

1. After each day's use, follow draining and flushing procedure as previously outlined.

2. Tighten pump packing glands only enough to stop drip. If too tight, shaft may be scored.

3. If generating burners have a short blue flame, it is an indication that burners are over-generating, which is caused by carbon in the coils or too small an opening in the vaporizing tip. Flakes of carbon may be removed from tip by using the burner cleaner. If this does not correct the trouble, bore out the tip with a number 54 drill. If flame is still blue, remove coil from burner and place it verti-

cally in a vise with openings down; heat half of top coil to color; add oxygen cautiously to open tube end. As carbon burns out, color will travel around and down coil. When burned out, vibrate and blow out with air. If flame is smoky and dark yellow, needle valve is open too much, causing under-generation.

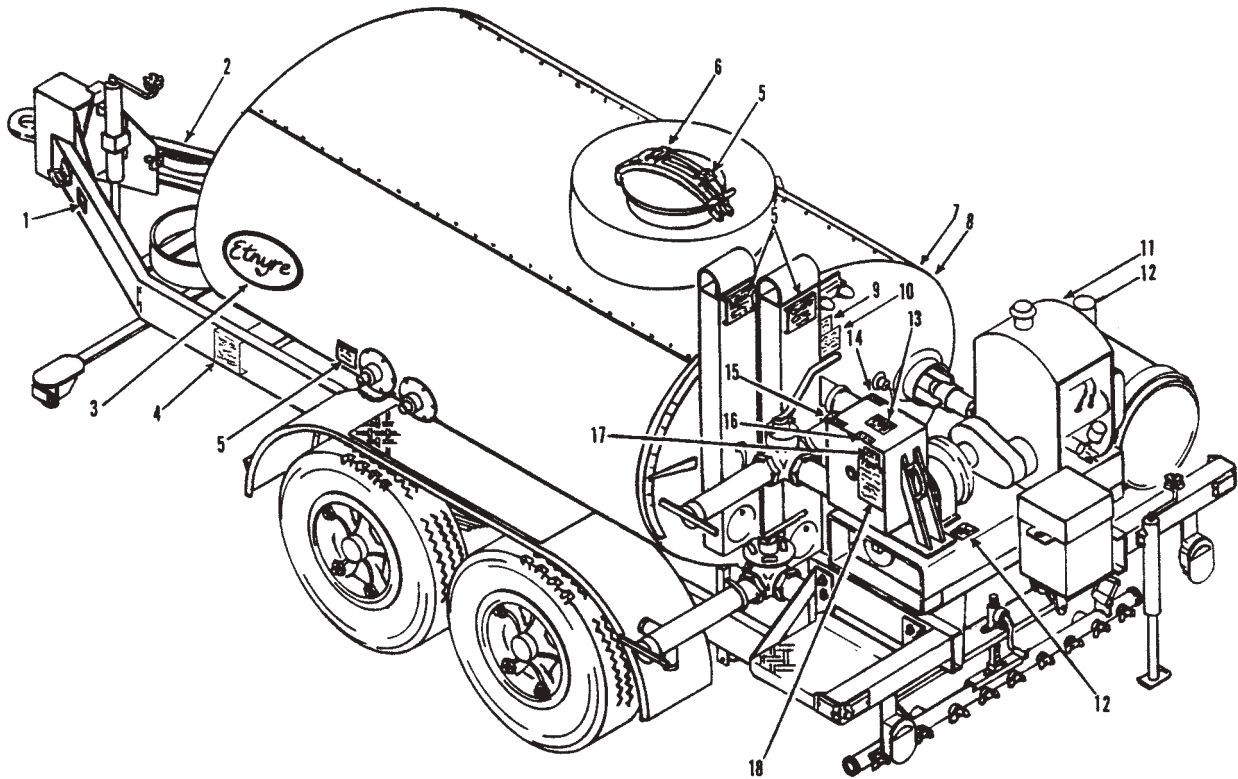
4. Clean out fill line strainer weekly.

5. For engine maintenance, see engine manual.

6. Grease spring shackles monthly, and pack wheel bearings once a year.

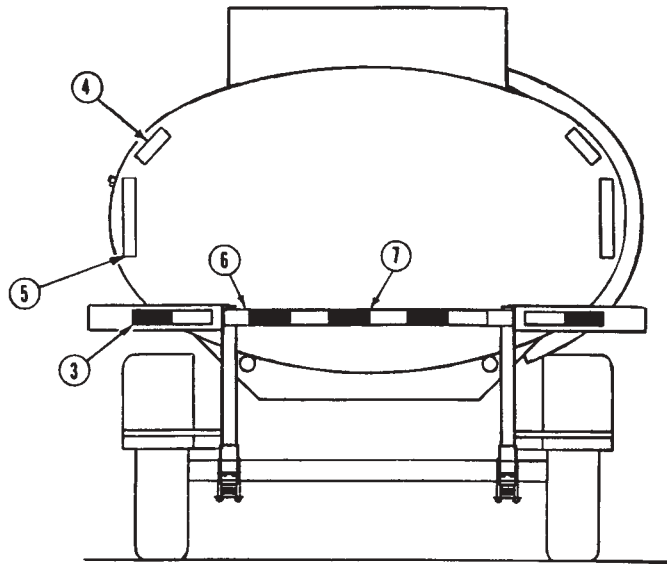
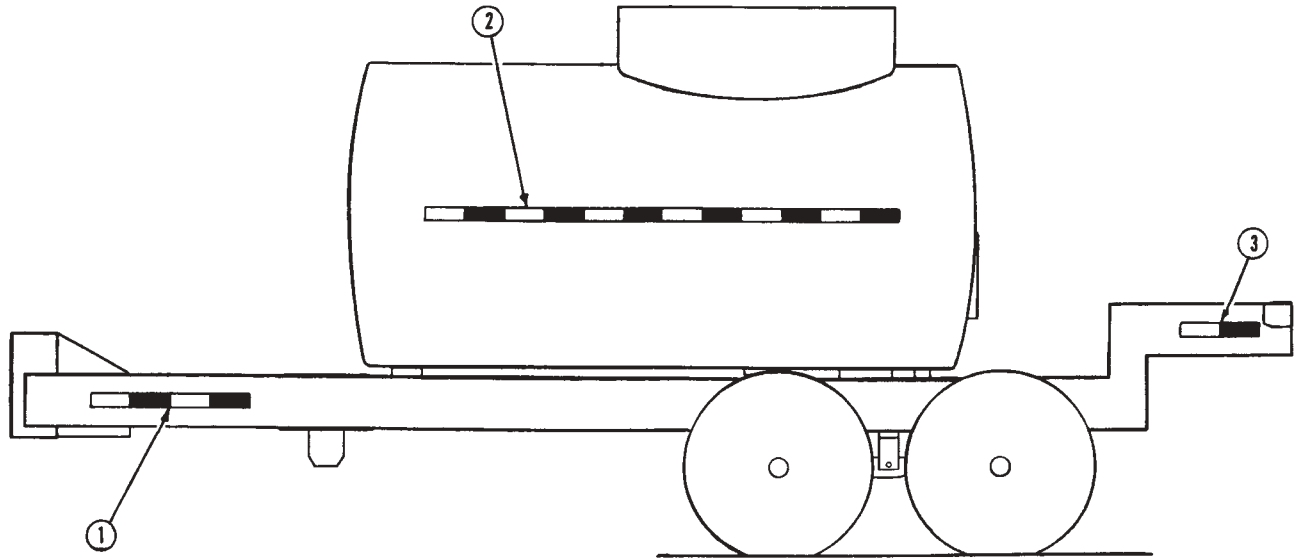
Warning & Instruction Plates

Note: Plates may be located in a different place due to space availability.



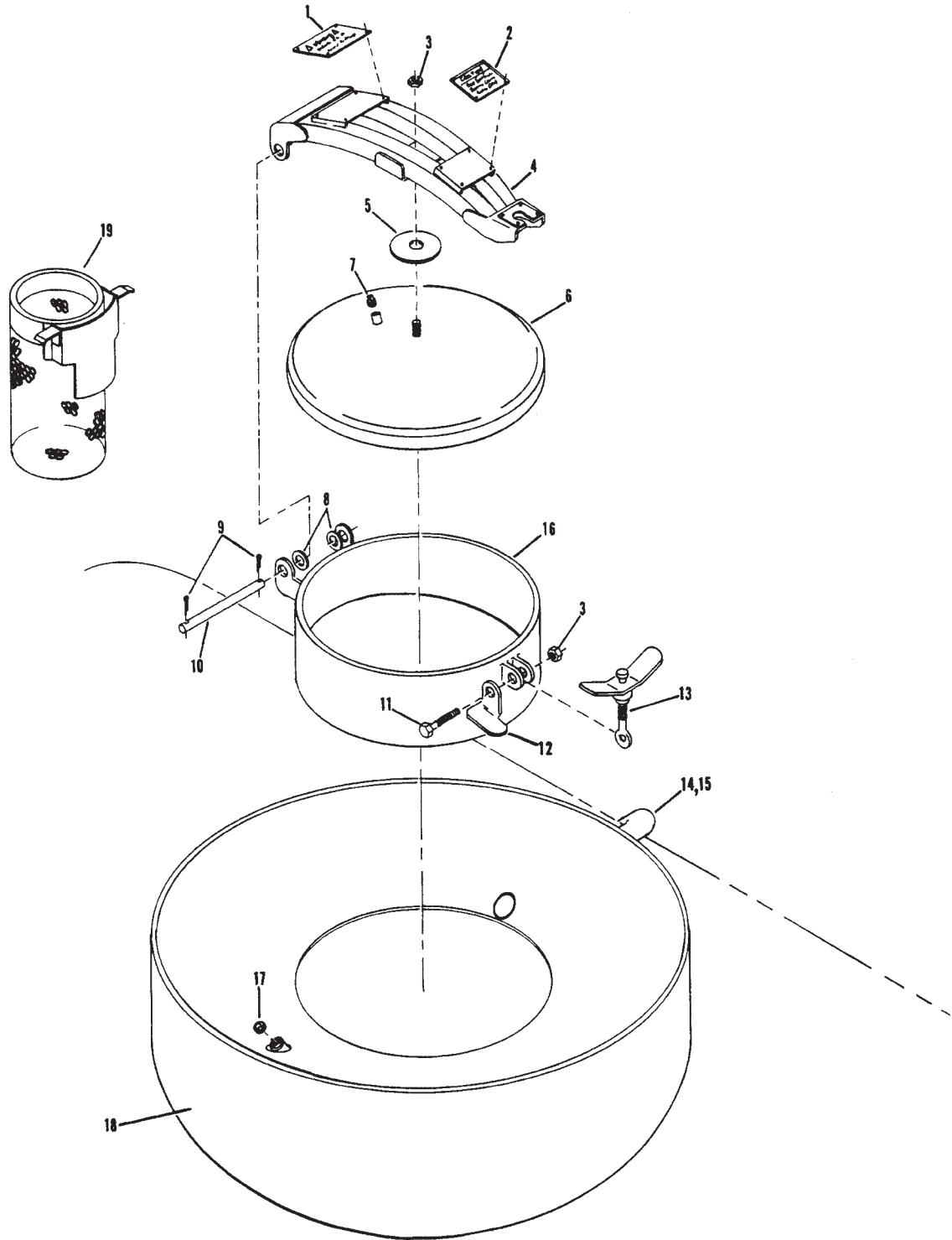
REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2690082	1	Name Plate - Brass	15	3360423	1	Plate-FILL
2	3830529	1	Plate-Warning Safety Chain	16	3360178	1	Plate-CIRCULATE
3	3390191	2	Decal-Oval, ETNYRE	17	3390534	1	Plate-Warning, FILL CAP
4	2790026	1	Identification Plate	18	3390533	1	Plate-Warning, SAFETY-GENERAL
5	3561030	4	Plate-Caution, HOT SURFACE				
6	3390535	1	Plate-Warning, MANHOLE				
7	3390637	1	Tag-Warning, DON'T MIX ASPHALTS				
8	3390636	1	Plate-Warning, BURNER				
9	3390540	1	Plate-Directions, LPG BURNER				
	3390539	1	Plate-Directions, LOW PRESSURE BURNER				
	3390538	1	Plate-Directions, GENERATING BURNER				
10	3390537	1	Plate-Warning, BURNER-GENERAL				
11	3561027	1	Plate-Caution, BEFORE STARTING				
12	3561029	2	Plate-Caution, SHIELDS				
13	3390620	1	Plate-Warning, "READ MANUALS"				
14	4421557	1	Plate-Shafts, GREASE DAILY				

Trailer Conspicuity Installation 800 Gallon & Above



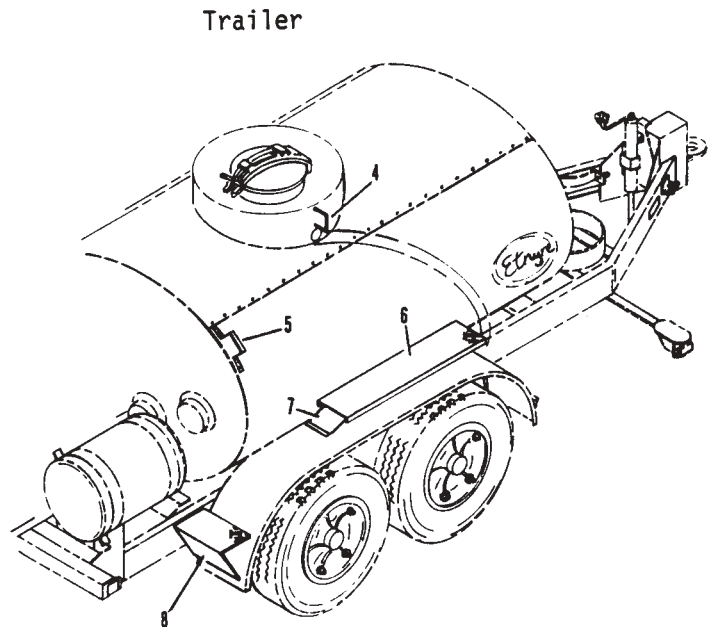
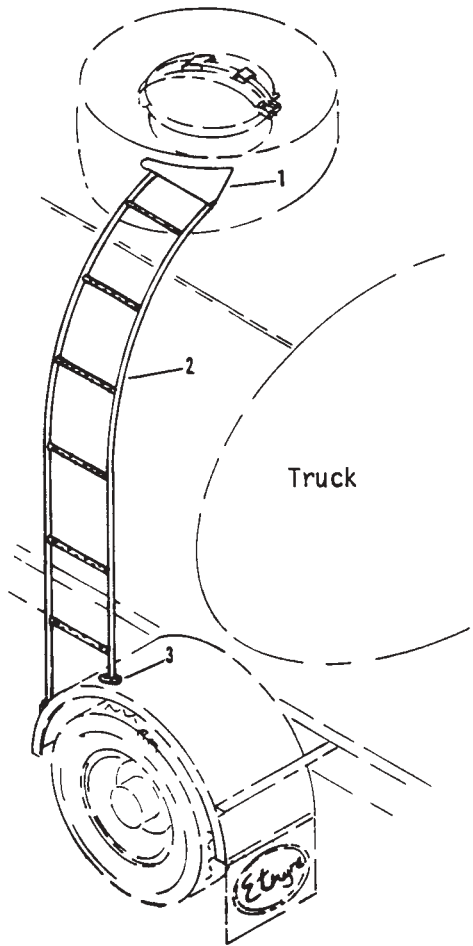
REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2790527	2	Tape Con., 2", Red/White x 24"				
2	2790527	2	Tape Con., 2", Red/White x 72"				
3	2790527	4	Tape Con., 2", Red/White x 12"				
4	2790529	2	Tape Con., 2", White x 6"				
5	2790529	2	Tape Con., 2", White x 12"				
6	2610619	1	Bracket				
7	2790527	1	Tape Con., 2", Red/White x 36"				

Manhole & Spillbox Assembly



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	3390535	1	Plate-Warning, Manhole Safety	11	0122459	1	Screw-Hex, 0.50NC x 2.00, GR2,PD
2	3561030	1	Plate-Caution, Hot Surface	12	2700234	1	Prop-Cover
3	9411727	2	Nut-Hex, Lock, 0.50NC,EA,PD	13	2700243	1	Hold Down Asm-20"
4	2700244	1	Strongback Asm-20"	14	6309185	AR	Tube-2.00 ID
5	2700241	1	Reinforcer-Cover	15	6600906	1	Clamp-Hose, Worm Dr. 1.81 x 2.75
6	2700242	1	Cover Asm-20"	16	2700232	1	Collar Asm
7	0444867	1	Plug-Auto, Hex Sock, 0.38NPTF,PD	17	0219303	1	Plug-Pipe, SqHd, 1.00NPT,PN
8	6100376	AR	Washer-Wave	18	2600333	1	Rollover/Spillbox Asm
9	0137204	2	Pin-Cotter, 0.12 x 1.50,PD	19	3390173	1	Strainer Asm-6"
10	2700233	1	Shaft-Hinqe				

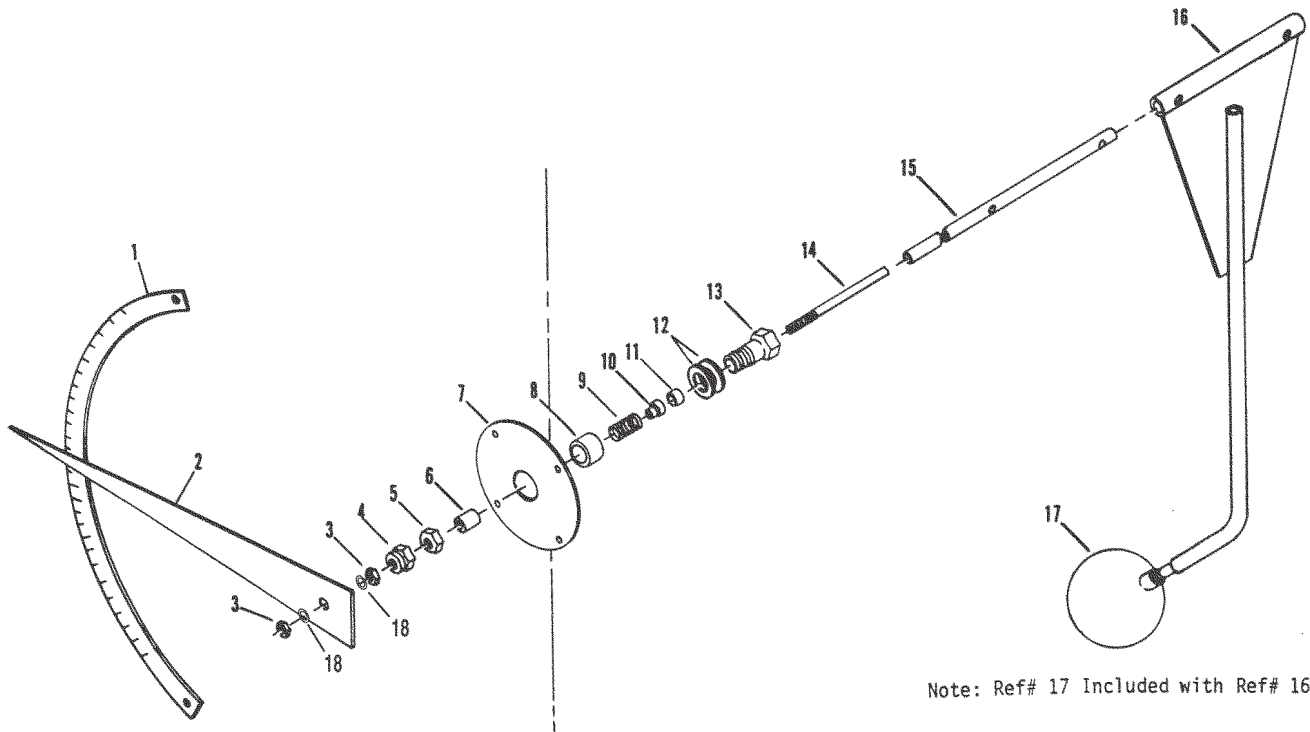
Manhole Access Truck & Trailer



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2680302	1	Ladder Bracket				
2	8000017	1	Ladder Asm				
3	3310152	2	Plates Asm (Incls. Lockwashers & Capscrews)				
4	2600040	1	Grab Handle				
5	2680303	1	Handle				
6	2680304	1	Side-Step				
7	2680306	2	Bracket, Side-Step				
8	2680305	1	Step-Fender				

Tank Gauge Assembly (Optional)

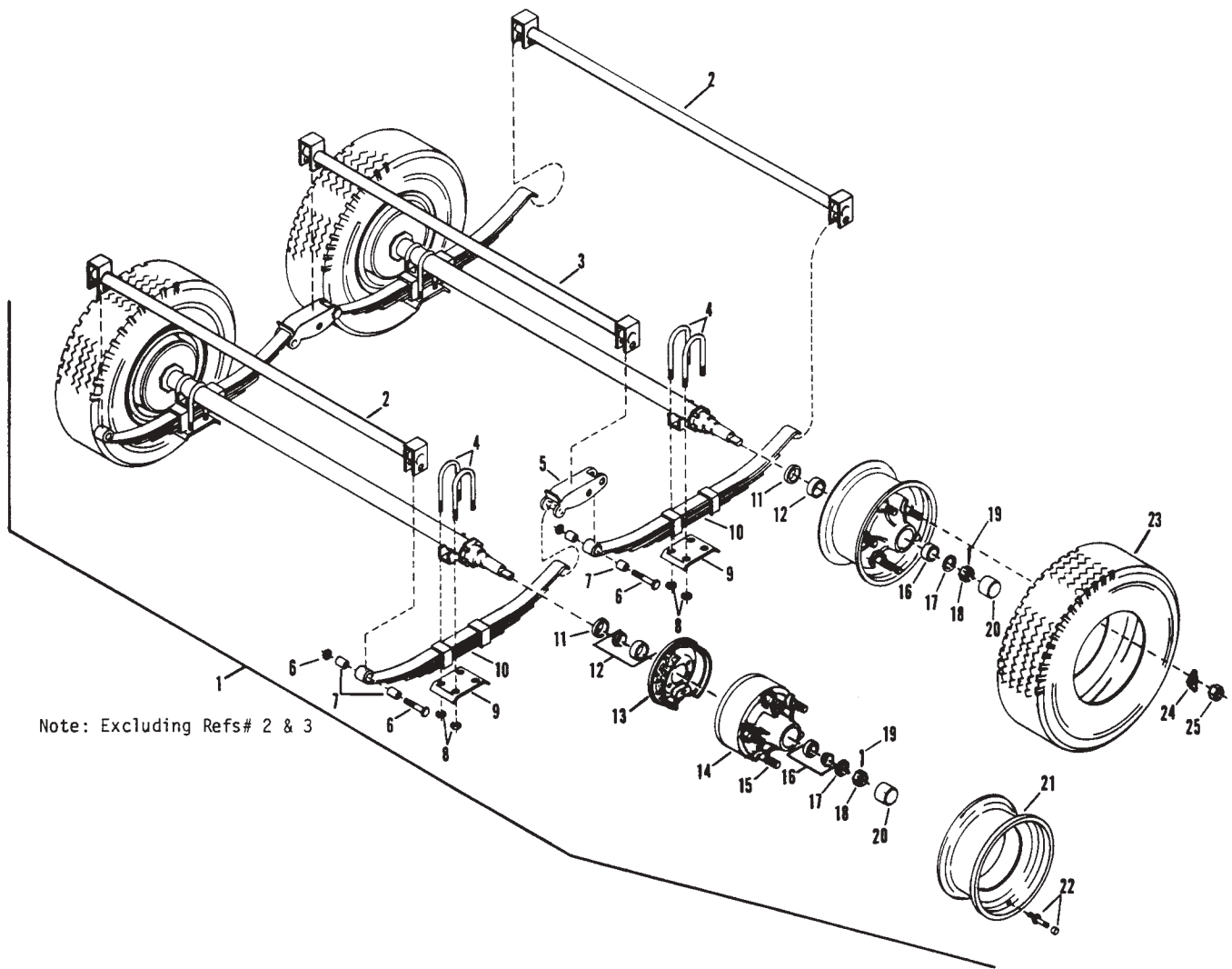
*Note: When ordering Tank Gauge Dial (Ref 1)
specify unit serial number, tank oval size and
tank capacity.



Note: Ref# 17 Included with Ref# 16.

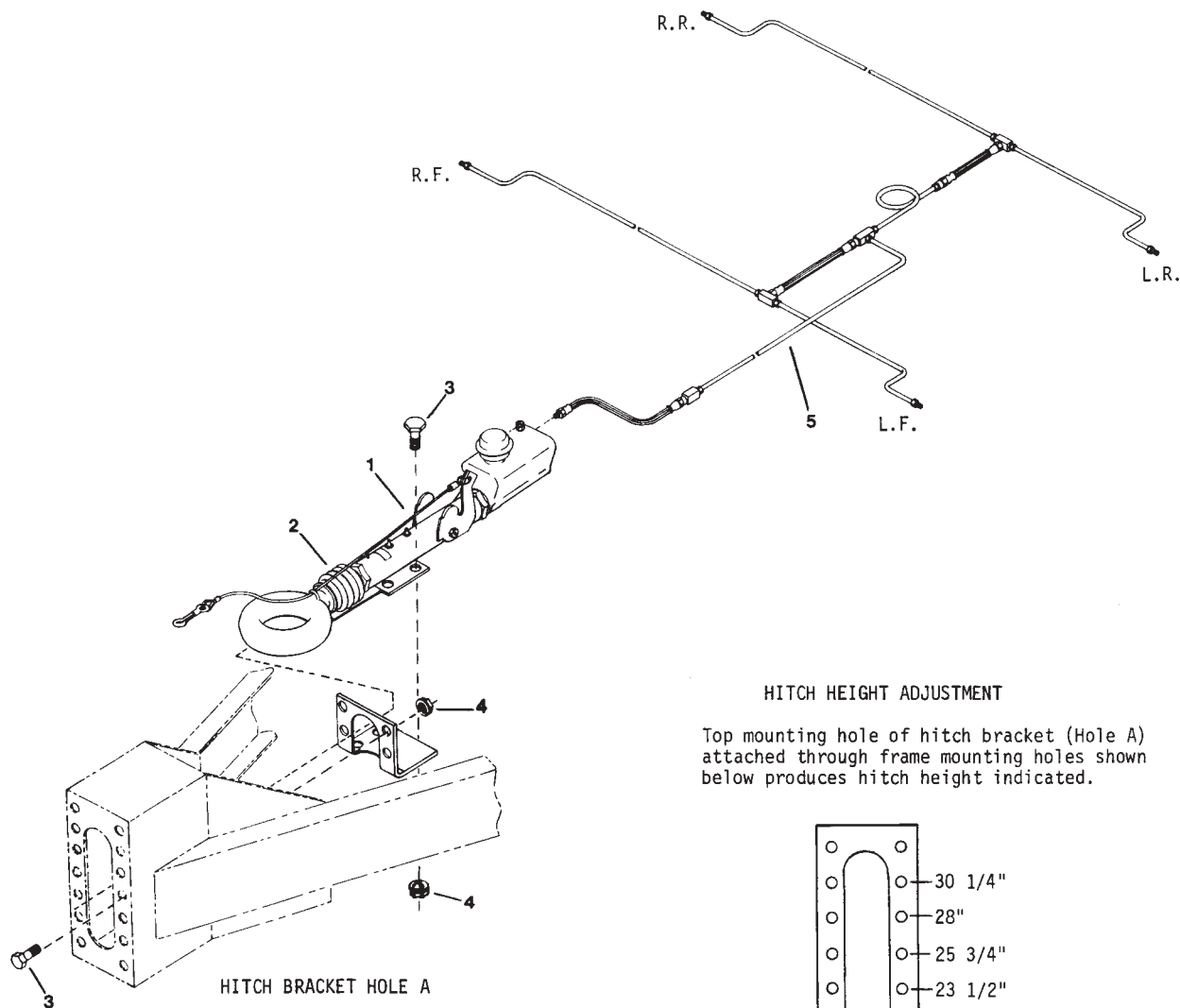
REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	3380438	1	Dial Blank				
2	3360850	1	Dial Pointer				
3	0120366	2	Nut-Hex, 0.31NC,PD				
4	3360828	1	Nut Asm-Packing Retainer				
5	0426899	1	Nut-Hex, JAM, 1.00NC				
6	3301164	1	Spacer-Packing				
7	3341199	1	Cover-Jkt, Drive Shaft, Tk Ga				
8	3301352	1	Spacer-Tank Gauge				
9	3360192	1	Spring-Packing				
10	3360187	1	Sleeve-Packing				
11	3360204	1	Packing-Tank Gauge				
12	3360825	2	Gasket-ASB				
13	3301163	1	Screw-Fitting, Tank Ga, 1"NC				
14	3360824	1	Shaft-Drive				
15	6303353	1	Pipe Asm-Sch 40, 0.25, Ft.				
16	3361053	1	Stem Asm-Tank Gauge, 42 x 74 Oval				
	3361055	1	Stem Asm-Tank Gauge, 50 x 83 Oval				
17	6600335	1	Float Ball				
18	0138485	1	Washer-Lock, 5/16, Ext Tooth				

Tandem Axle - Electric Brake



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	6450686	2	Axle Asm-Electric Brake (Excluding Refs# 2 & 3)	20	7620343	4	Grease Cup
	6450708	2	Axle Asm-Hyd Brake (Opt.-Excluding Refs# 2 & 3)	21	7620032	4	Rim-Heavy Duty (6000 UT)
2	2610586	2	Stablizer-Axle, Front & Rear	7620347	4	Rim-Heavy Duty (7000 UT)	
3	2610585	1	Stablizer-Axle Center	22	6450398	4	Valve Stem
4	7620041	8	U-Bolt	23	6450369	4	Tire, 8-14.5, 12 Ply, Tubeless
5	7620044	2	Equalizer	24	7620344	20	Rim Clamp
6	7620043	6	Bolt & Nut-Equalizer	25	7620345	20	9/16-18 Nut for Rim Clamp
7	7620045	8	Bushing-Spray Eye				
8	7620046	16	Nut-U Bolt				
9	7620047	4	Plate-Spring				
10	7620042	4	Spring-Slipper Type				
11	7620038	4	Seal				
12	7620039	4	Cup & Cone Asm-Inner				
13	7620034	4	Brake-Electric, RH				
	7620342	4	Brake-Electric, LH				
	7620349	4	Brake-Hyd, RH (Opt.)				
	7620348	4	Brake-Hyd, LH (Opt.)				
14	7620033	4	Hub & Drum, Spoke Type				
15	7620346	20	9/16-18 Stud				
16	7620040	4	Cup & Cone Asm-Outer				
17	7620037	4	Washer-Spindle				
18	7620036	4	Nut-Spindle				
19	7620035	4	Pin-Cotter				

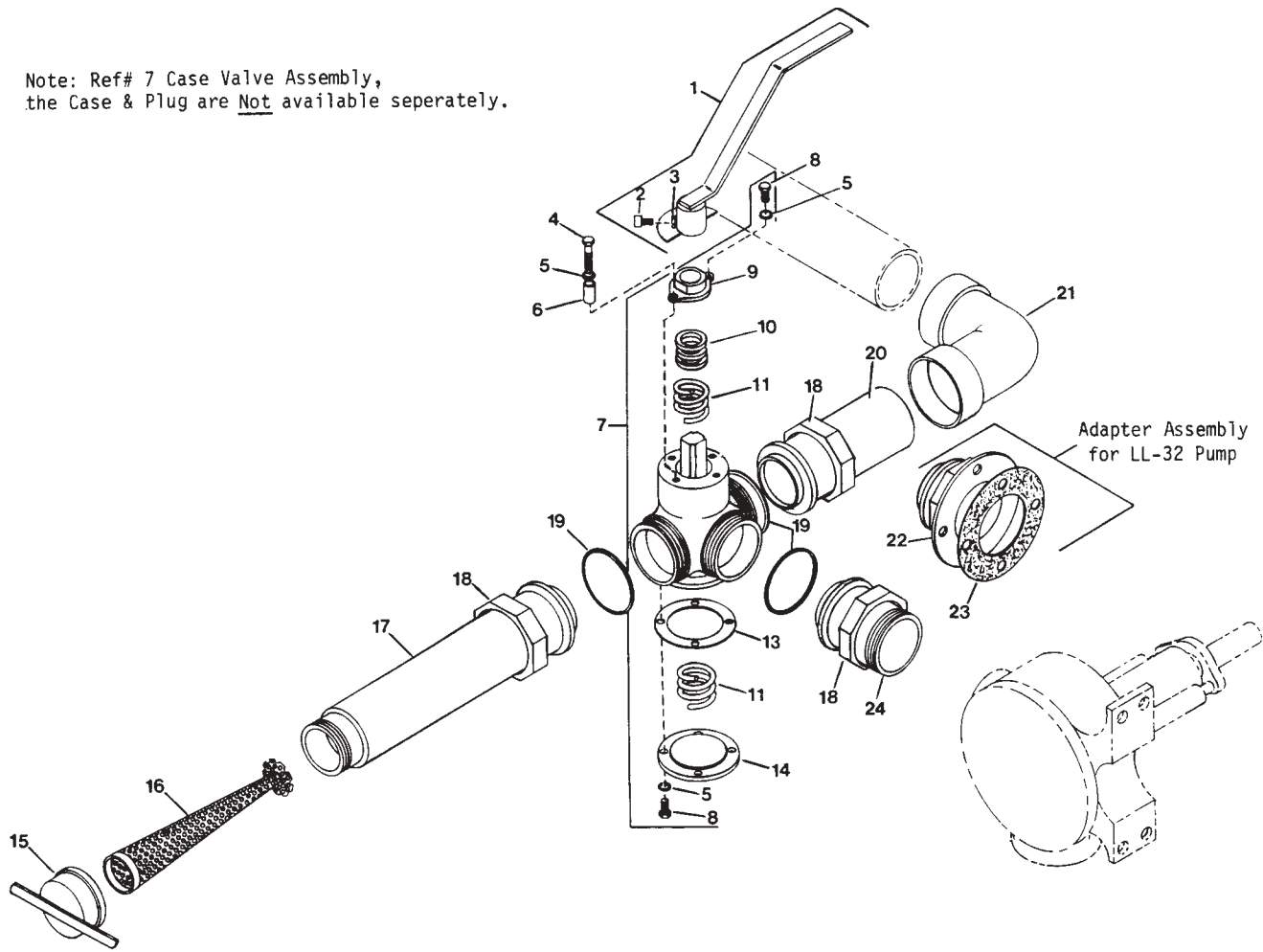
Hydraulic Brake (Optional)



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	6450256	1	Actuator (Below 1000 Gals)				
	6602049	1	Actuator (1000 Gals & Above)				
2	7630188	1	Boot				
3	0223512	8	Screw-Hex, 0.62NC x 1.75 GR8,PD				
4	9419530	8	Nut-Hex,Lk,Wsh Ins. 0.62,301,PD				
5	6450404	1	Line Kit				

Suction Line & Valve

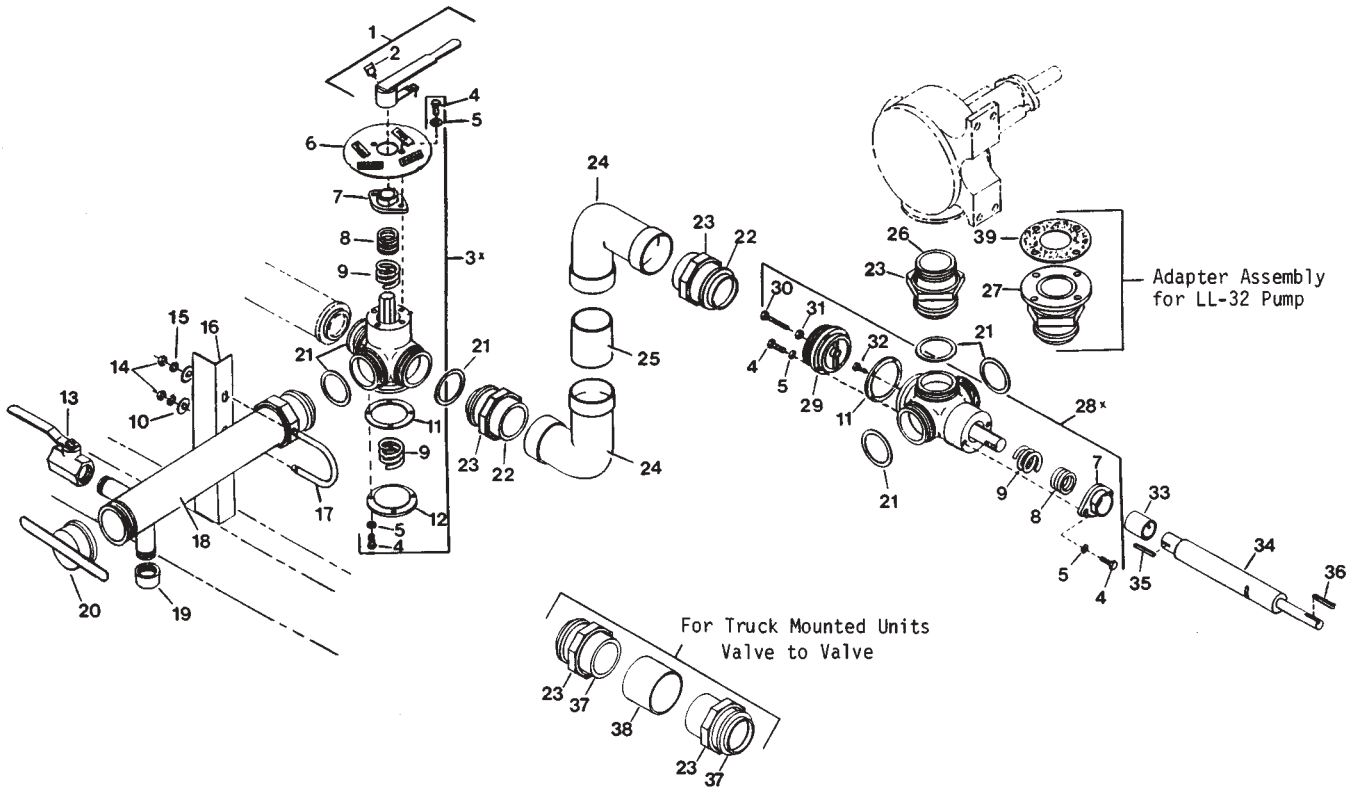
Note: Ref# 7 Case Valve Assembly,
the Case & Plug are Not available seperately.



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2640571	1	Lever Asm-Suction Vlv				
2	0128228	1	Screw-SqHd, 0.38NC x 0.75,CUP,PD				
3	0120377	1	Nut-Hex, 0.38NC,PD				
4	0122052	1	Screw-Cap, Hex Hd, 0.31NC x 1.75				
5	0120214	6	Washer-Lock, Spring,PD				
6	2640416	1	Stop-Suction Vlv				
7	3340075	1	Valve Asm-Transfer, 3 Way, 2.50				
8	9421705	5	Screw Sock, 0.31NC x 0.75,PD				
9	3340028	1	Cap-Gland, Large				
10	3340029	3	Packing Ring				
11	3340046	2	Spring, Compression				
12							
13	3340027	1	Gasket-Bottom Vlv Plate				
14	3340026	1	Plate-Bottom Vlv				
15	2640001	1	Cap Asm-Pipe, 2 In.				
16	2640454	1	Strainer-Asm, Fill Line				
17	2640420	1	Line Asm-Fill Strainer Retain				
18	6000480	AR	Nut-Union, 2 In.				
19	6600208	3	Gasket-2.75 x 3.12, Copper ASB.				
20	2650253	1	Suction Line, Vlv to Turn				
21	6200624	1	Elbow-Belled, 90, 21.5				
22	2640422	1	Adp Asm-Pump Suction, 140GPM				
23	2640461	1	Gasket				
24	2640413	1	Adp-Pump Suction				
							AR - AS REQUIRED

Discharge Line & Valves

Note: Refs# 3 & 28 Case Valve Assemblies, the Case and Plug are Not available separately.

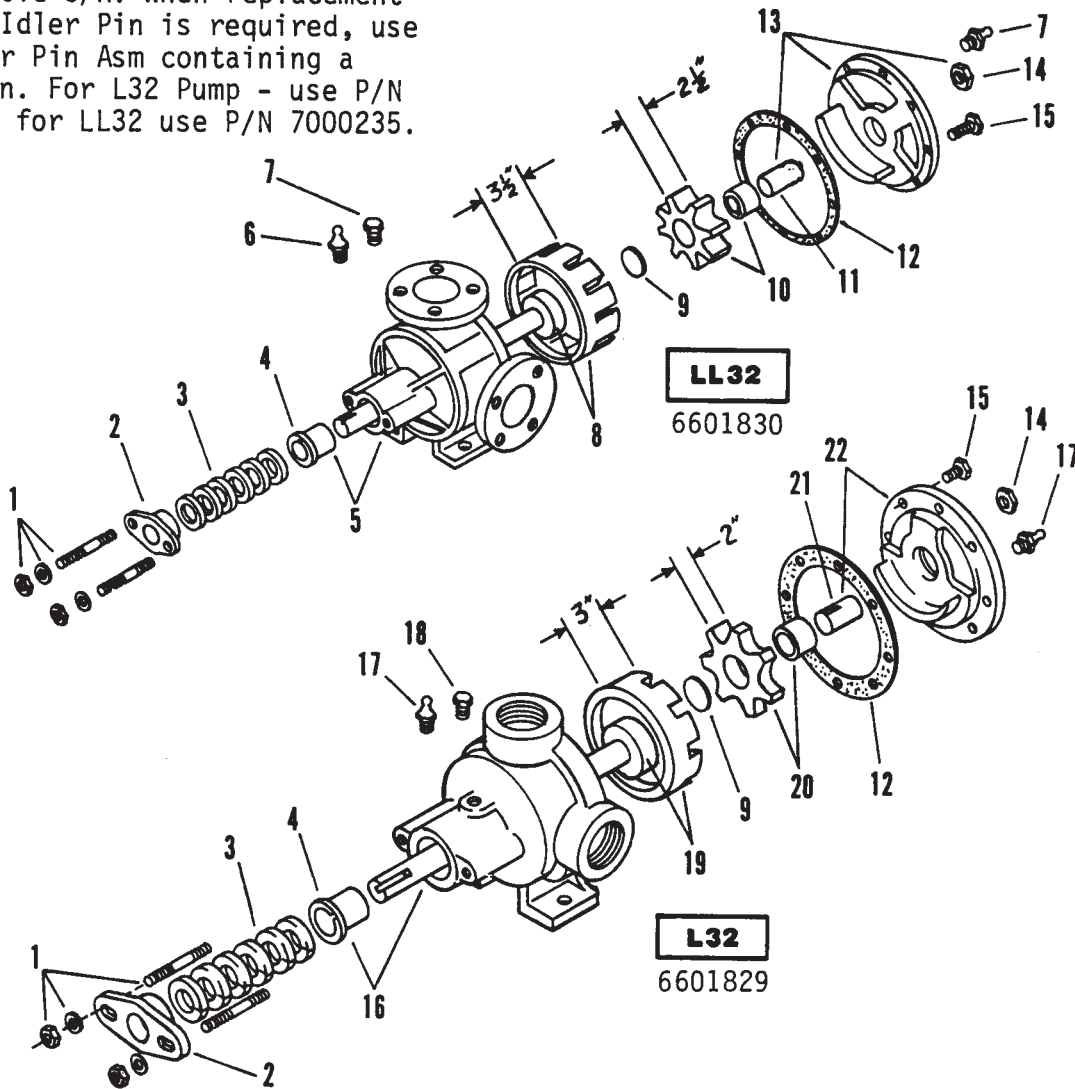


REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2640792	1	Lever Asm-Discharge Vlv	31	0274635	1	Nut-Hex, Lock, 0.38NF,EA,GRA,PD
2	0128228	1	Screw-Set, SqHd, 0.38NC x 0.75,CUP,PD	32	3340632	1	Screw-Cap, Filler
3	3340075	1	Valve Asm-Transfer, 3 Way, 2.5	33	2640559	1	Coupling-4 Way, Value Shaft
4	9421705	6	Screw-Sock, 0.31NC, 0.75,PD	34	2640562	1	Shaft-4 Way Vlv, Operating
5	0120214	6	Washer-Lock, 0.31, Spring,PD	35	3455010	1	Key-0.25 x 0.25CR x 3.00
6	2649477	1	Plate Asm-Ret Vlv Positioning	36	6000005	1	Key-0.25 x 0.25CR x 1.25 Rd Hd
7	3340028	1	Gland Cap, Large	37	2650271	2	Return Line Asm, Vlv to Vlv
8	3340029	3	Packing Ring	38	2650272	1	Sleeve-Return Line
9	3340046	AR	Spring-Compression	39	2640461	1	Gasket-Adp Flange LL32 Pump
10	0120388	2	Washer-Flat, 0.38A(0.44 x 1.00)				
11	3340027	1	Gasket-Bottom Valve Plate				
12	3340026	1	Plate-Bottom Valve				
13	6601177	1	Valve-Ball, 1 In., Hand Spray				
14	0120377	2	Nut-Hex, 0.38NC,PD				
15	0120382	2	Washer-Lock, 0.38, Spring,PD				
16	2650263	1	Support Fill & Transfer				
17	3390085	1	Clip-2 In. Pipe				
18	2650256	1	Line Asm-Pump Off & Hand Spray				
19	0108689	1	Cap-Pipe, 1.00 NPT,PN				
20	2640001	1	Cap Asm-Pipe, 2 In.				
21	6600208	AR	Gasket-2.75 x 3.12, Copper ASB				
22	2650249	2	Return Line, Vlv to Tube Turn				
23	6000480	AR	Union Nut, 2 In.				
24	6200624	2	Elbow-Belled, 90, 21.5				
25	2700279	1	Sleeve-Vent Pipe				
26	2640411	1	Adapter-Pump Pressure, 90 GPM				
27	2640426	1	Adapter Asm-Pump Pressure, 140 GPM				
28	3341057	1	Vlv Asm-4 Way, 2.5 Rd Shaft				
29	3340205	1	Flange Asm-Discharge				
30	3340633	1	Bolt-Plug Positioning				

AR - AS REQUIRED

Vican Pumps

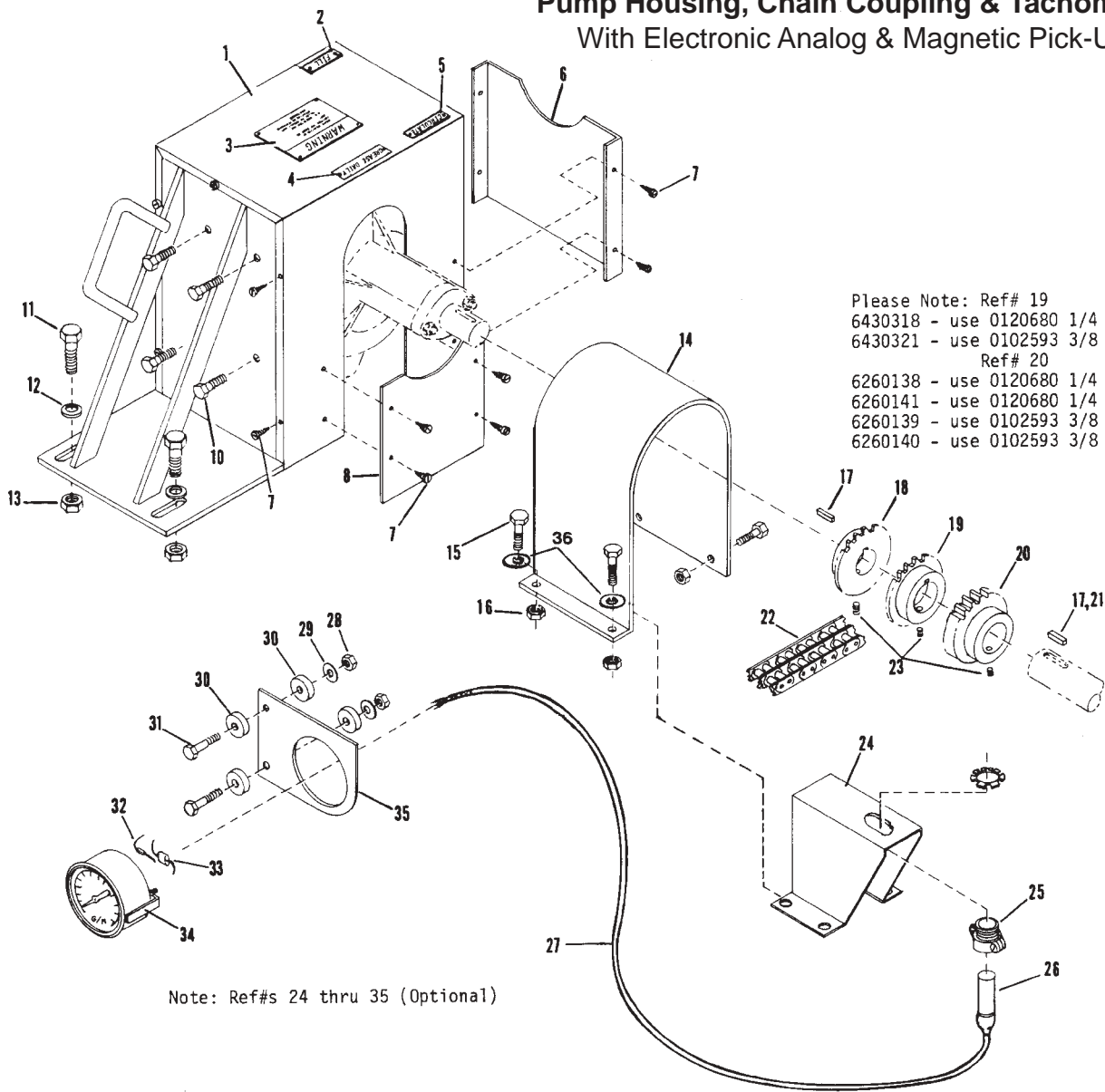
Note: All L32 and LL32 Pumps with S/N 2433V and after, will have straight Idler Pins (Ref#s 11 & 21) instead of tapered, as furnished prior to above S/N. When replacement of tapered Idler Pin is required, use Head & Idler Pin Asm containing a straight pin. For L32 Pump - use P/N 7000220 and for LL32 use P/N 7000235.



Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	7000227	2	Stud & Washer-Packing Gland	14	7000222	1	Idler Pin Nut
2	7000226	1	Packing Gland	15	7000229	1	Head Bolt Set
3	7000225	6	Packing Set	16	7000223	1	Casing & Bushing Asm - L32
4	7000224	1	Casing Bushing - Bronze	17	7000230	AR	Grease Fitting - L32
5	7000238	1	Casing & Bushing Asm - LL32	18	7000231	AR	Pipe Plug - L32
6	7000246	AR	Pipe Plug - LL32	19	7000217	1	Rotor Asm - L32
7	7000245	AR	Grease Fitting - LL32	20	7000218	1	Idler Asm - L32
8	7000232	1	Rotor Asm - LL32	21	7000221	1	Idler Pin - L32
9	7000219	1	Idler Disc	22	7000220	1	Head & Idler Pin Asm - L32
10	7000233	1	Idler Asm - LL32				
11	7000236	1	Idler Pin - LL32				
12	7000228	1	Head Gasket Set				
13	7000235	1	Head & Idler Pin Asm - LL32				

AR - As Required

Pump Housing, Chain Coupling & Tachometer With Electronic Analog & Magnetic Pick-Up

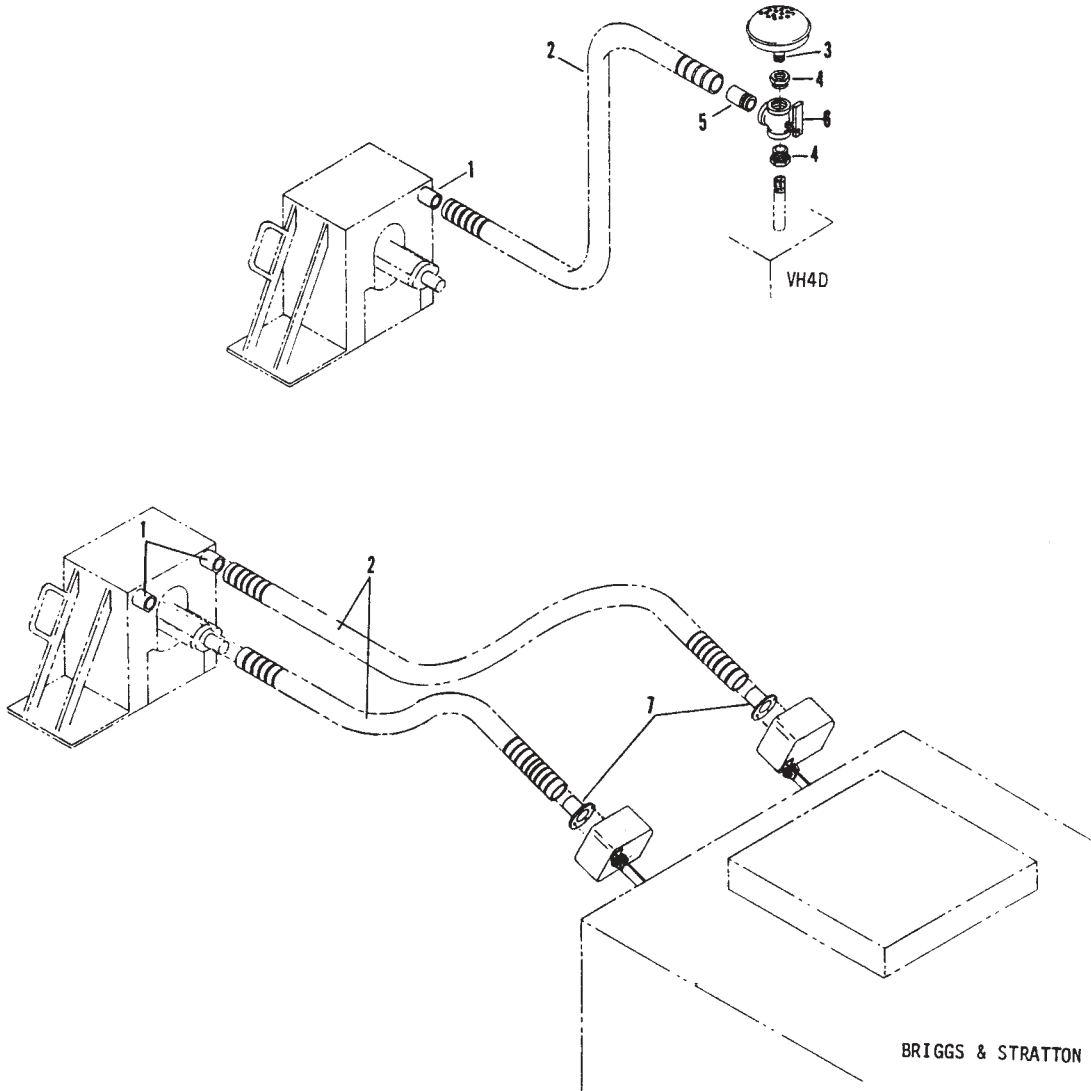


Please Note: Ref# 19
 6430318 - use 0120680 1/4 Screw Sock
 6430321 - use 0102593 3/8 Screw Sock
 Ref# 20
 6260138 - use 0120680 1/4 Screw Sock
 6260141 - use 0120680 1/4 Screw Sock
 6260139 - use 0102593 3/8 Screw Sock
 6260140 - use 0102593 3/8 Screw Sock

Note: Ref#s 24 thru 35 (Optional)

REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2640405	1	Housing Asm-Pump	7801106	1	Kit (E780)	
2	3360423	1	Plate-Name, Fill	2620139	1	Gear-Mag Pick-Up, LL32 Pump (Hatz Z788 & Z790)	
3	3390620	1	Plate-Warning, Read Manuals	7801109	1	Kit (VH4D & Z788)	
4	4421557	1	Tag-Grease Daily	2620140	1	Gear-Mag Pick-Up, L32 (Hatz Z788 & Z790)	
5	3360178	1	Plate-Name, Circulate	7801108	1	Kit (VH4D)	
6	2640407	1	Plate-Finish, PP HSG Suction Side	2620141	1	Gear-Mag Pick-Up, LL32 (Briggs)	
7	9426314	12	Screw-Tap, PNSL, 12/14 x 0.50,PD	7801107	1	Kit	
8	2640408	1	Plate-Finish, PP HSG, Shaft Side	21	6000005	1	Key-0.25Sq x 1.25Lg.
9	2640404	1	Base Asm, Pump Housing	22	6430319	1	Chain-RC50 x 2, RV, 10.00CL
10	0180151	4	Screw-Hex, 0.44NC x 1.75 GR5,PD	23	0102593	1	Screw-Sock, 0.38NC x 0.50,CUP,PN
11	0122433	4	Screw-Hex, 0.50NC x 1.50 GR2,PD	24	3321361	1	Brkt-Mtg. Mag Pick-Up
12	0120390	4	Washer-Flat, 0.50A(0.56 x 1.38),PD	25	6701510	1	Conn, Romex, 0.75
13	9411727	4	Nut-Hex, Lock, 0.50NC,EA,PD	26	6701838	1	Sensor-Proximity Pick-Up, 12VDC
14	2620142	1	Guard-Chain Cplg, (W/Tach Dr)	27	6701048	AR	Cable-Shielded, 22-3, Stranded
15	0122119	4	Screw-Hex, 0.38NC x 0.75, GR2,PD	28	9413946	2	Nut-Lock, 0.25NC
16	0274993	4	Nut-Hex, Lock, 0.38NC,EA,PD	29	0120386	2	Washer-Flat, 0.25A(0.31 x 0.73)PD
17	2620031	AR	Key-0.38CR x 1.25 Sq End	30	6000455	4	Bushing
18	6430317	1	Spkt-Cplg, 0.50, 16T, B, 1.437	31	0121954	2	Screw-Hex, 0.25NC x 2.00
19	6430318	1	Spkt-Cplg, 0.50, 16T, B, 1.125 (Briggs & Hatz E780U)	32	6701540	1	Resistor-1K OHM-1/2 Watt, 5 Per
	6430321	1	Spkt Asm-RC50 x 1, 16T, B, 1.69 (Hatz Z788 & Z790, VH4D & VH4ST)	33	6702143	1	Capacitor-1UF, 100VDC
20	2620138	1	Gear-Mag Puck-Up, L32 Pump (Hatz E780U & Briggs)	34	6702135	1	Pump Tachometer-Ele Analog
				35	3361037	1	Brkt-Pump Tach, R.E. Elect.
				36	0120388	2	Washer-Flat, 0.38A(0.44 x 1.00)

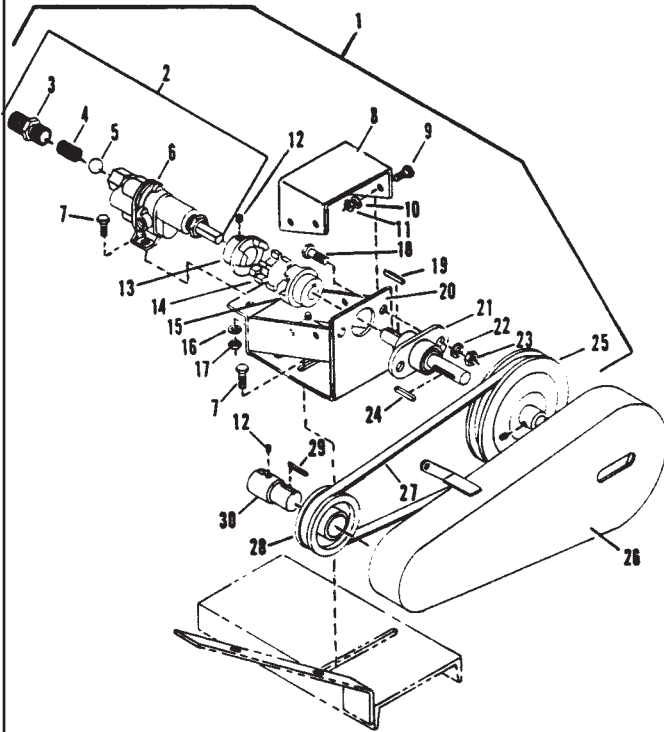
Heating - Pump Housing VH4D - Briggs & Stratton



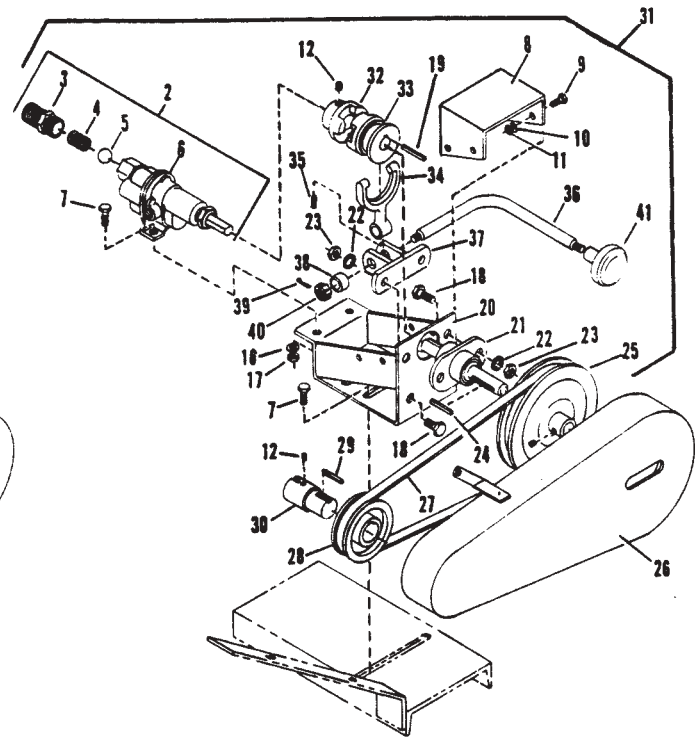
REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	4020137	AR	Adaptor-Exhaust Mold				
2	6309094	AR	Tubing-Flex, 2"OD/Ft				
3	0192276	1	Nipple-Sch 40, 1.25 x 1.62CL,PD				
4	0192104	2	Bushing-Pipe, 1.50 x 3.00,PN				
5	6200280	1	Nipple-Half, Sch 40, 1.50 x 3.00,PN				
6	3320536	1	Valve Asm-Butterfly, FORD				
7	2620152	2	Exhaust Adaptor Asm				

Fuel Pump Assembly With & Without Clutch

FUEL PUMP ASSEMBLY
Without Clutch



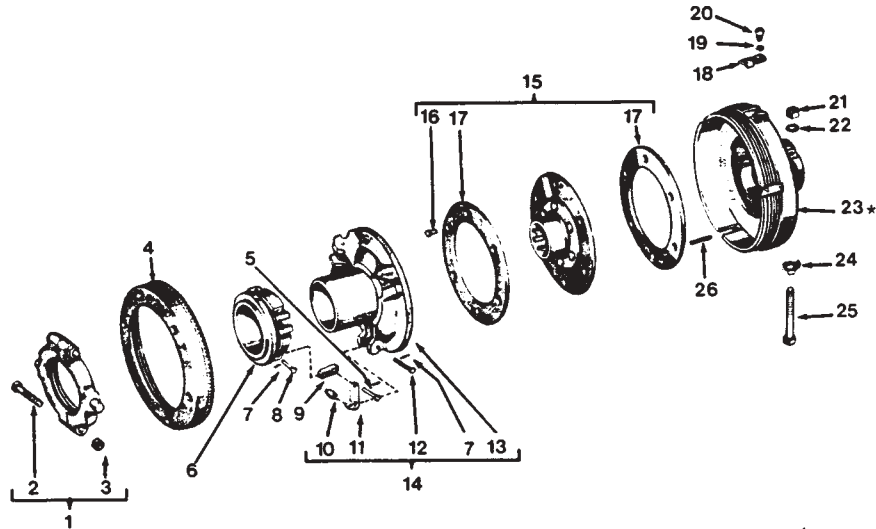
FUEL PUMP ASSEMBLY
With Clutch



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2630297	1	Pump Asm-Fuel, (WO/Clutch)	27	6435277	1	V Belt-A36, Briggs-W & WO/Clutch
2	2630147	1	Pump Asm-Fuel, Gen Burners		6435216	1	V Belt-A38, VH4D-W & WO/Clutch
	7040006	1	Kit		6435230	1	V Belt-A40, Z788-WO/Clutch
3	2630172	1	Fitting-Ret Line, Fuel Pump	28	6435110	1	Pulley
4	6500323	1	Spring-Comp, Fuel Pump Relief	29	3100163	1	Key-o.25 x 0.25CR x 1.50
5	0145655	1	Ball Bearing, 0.437 Dia	30	2630350	1	Extension-MTR Shaft
6	6600642	1	Pump-Fuel	31	2630301	1	Pump Asm-Fuel (W/Clutch)
7	0122007	4	Screw-Hex, 0.31NC x 0.75, GR2,PD	32	2630299	1	Clutch Jaw-Half Driven
8	2630288	1	Guard	33	2630298	1	Clutch Jaw-Half Drive
9	0121926	4	Screw-Hex, 0.25NC x 1.50, GR2,PD	34	3320192	1	Shifting Fork
10	0120380	4	Washer-Lock, 0.25, Spring,PD	35	0102594	1	Screw-Lock, 0.38NC,CUP,PN
11	0120375	4	Nut-Hex, 0.25NC,PD	36	3320193	1	Shifting Lever
12	0115321	AR	Screw-Sock, 0.31NC x 0.31, CUP,PN	37	2630289	1	Bracket Asm-Fork Shift
13	6445008	1	Coupling-Flex	38	2630300	1	Spacer
14	6445009	1	Spider-Neoprene	39	0103386	1	Pin Cotter, 0.12 x 1.25,PD
15	2630284	1	Coupling-Half Drive	40	0125348	1	Nut-Hex, Slot, Thick, 0.38NF,PD
16	0120214	2	Washer-Lock, 0.31, Spring,PD	41	3320228	1	Knob
17	0120366	2	Nut-Hex, 0.31NC,PD				
18	0120233	AR	Screw-Hex, 0.38NC x 1.00, GR2,PD				
19	6000207	1	Key-0.19 x 0.19CR x 1.00, Rd End				
20	2630277	1	Bracket Asm				
21	2630287	1	Bearing Asm				
22	0120382	AR	Washer-Lock, 0.38, Spring,PD				
23	0120377	AR	Nut-Hex, 0.38NC,PD				
24	6000476	1	Key, 0.19 x 0.19CR x 1.88, Rd End				
25	6435246	1	Sheave-3L5.4/4L5.7, 1.38, 0.625				
26	2630292	1	Guard Asm-Belt				

AR - AS REQUIRED

Clutch Assembly
 7810060 - Hatz - E780U (6400285)
 Wis-S14D(6400182)
 7810098 - Briggs & Stratton



*Note: Ref# 23 is (7810099) when using a Briggs & Stratton Engine.

REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	7810069	1	Bearing Release Asm	25	7810067	2	Screw-Clamp
2	7801172	2	Screw-Hex Hd, 5/16-24 x 1-3/4Lg.	26	7810059	3	Spring
3	7801173	2	Nut-5/16-24 Elastic Stop				
4	7810068	1	Ring-Adjusting				
5	7810071	3	Pin-Link (Short)				
6	7810070	1	Sleeve-Release				
7	0112526	9	Pin-Cotter, 0.06 x 0.38,PD				
8	7810072	3	Pin-Link (Long)				
9	7810073	6	Link-Connecting				
10	7810074	3	Roller				
11	7810076	6	Lever				
12	7810075	3	Lever Pin				
13	7810077	1	Pressure Plate				
14	7810078	1	Pressure Plate & Lever Asm				
15	7810054	1	Drive Member Asm				
16	7810056	6	Rivet-Facing (Brass)				
17	7810055	2	Facing				
18	7810081	1	Lock-Adjusting				
19	7810079	1	Washer-Adjusting Lock				
20	7810080	1	Screw-Lock Adjusting				
21	7810066	2	Nut-Screw Clamp				
22	7810064	2	Washer-Lock, 0.38 Pos.				
*23	7810082	1	Housing (See Note)				
24	7810065	2	Screw-Lock				

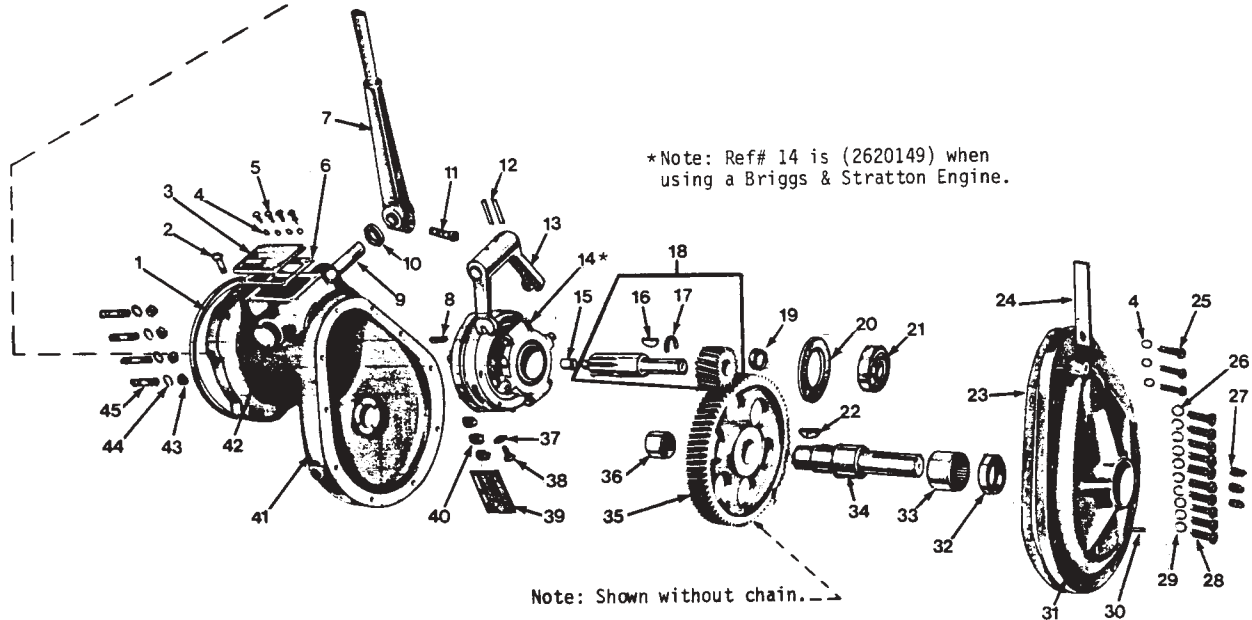
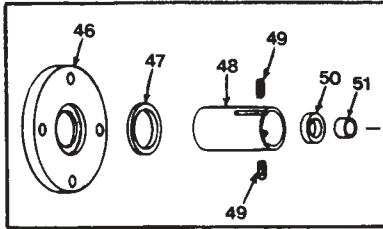
Clutch Reduction Gear Assembly

6410074 - Hatz E780U (6400285)

Wis - S14D (6400182)

7810098 - Briggs & Stratton

Note: Adapter Parts used for Briggs & Stratton Engine.



*Note: Ref# 14 is (2620149) when using a Briggs & Stratton Engine.

Note: Shown without chain.

REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	7801135	1	Gasket-Housing	28	0122017	10	Screw-Hex, 0.31NC x 1.00,GR2,PD
2	7801127	1	Breather	29		3	Washer-5/16ID x 19/32OD x 1/16Thk, P1Cop
3	7801123	1	Cover-Inspection	30	0117914	2	Taper Pin, 0.19 x 0.62Lg.
4		7	Washer-1/4ID x 7/16OD x 1/16Thk, P1Cop	31	7801124	1	Cover-Housing
5	0120706	4	Screw-Hex, 0.25NC x 0.50,GR2,PD	32	7801133	1	Seal-Oil
6	7801136	1	Gasket-Hole Inspection	33	7801130	1	Bearing-Needle, Outer
7	7801140	1	Lever-Shifter	34	7801142	1	Shaft-Take Off
8	6000011	1	Key-0.25 x 0.25CR x 1.00 Rd End	35	7801121	1	Gear-Driven
9	7801141	1	Shaft-Shifter	36	7801129	1	Bearing-Needle, Inner
10	7801132	1	Seal-Oil	37	0114605	1	Washer-Lock, 0.31, External Everlock
11	0120918	1	Screw-Hex, 0.38NC x 1.50,GR2,PD	38	7801143	1	Screw Set, Hub
12	0453760	2	Pin-Roll, 0.25 x 1.125Lg.	39	7801139	1	Plate-Instruction
13	7810062	1	Yoke-Shifter	40	0219191	3	Plug-Pipe, SqHd, 0.38NPT,PN
*14	7810060	1	Clutch Asm (See Note)	41	7801119	1	Housing
15	7801126	1	Bushing-Shaft	42	0117923	1	Plug, 1.38 Expansion
16	0103907	1	Key-#11 Woodruff, 0.19 x 0.88,PN	43	0271501	4	Nut-Hex, 0.44NC,PD
17	7801134	1	Ring-Ret. Shaft	44	0120383	4	Washer-Lock, 0.44, Spring,PD
18	7801120	1	Shaft & Gear	45	7801131	4	Stud
19	7801125	1	Spacer-Shaft	46	2620146	1	Adapter Ring
20	7801122	1	Plate	47	6602194	1	Oil Seal
21	7801128	1	Bearing	48	2620144	1	Shaft Sleeve
22	0114735	1	Key-#16 Woodruff, 0.19 x 1.12,PN	49	0273703	2	Spring Pin
23	7801137	1	Gasket-Cover	50	2620145	1	Steel Bushing .
24	7801138	1	Tag-Instruction Oil	51	6425031	1	Bushing, Oilite
25	0121900	3	Screw-Hex, 0.25NC x 1.00,GR2,PD				
26	0120214	7	Washer-Lock, 0.31, Spring,PD				
27	0219187	3	Plug-Pipe. SqHd. 0.12NPT.PN				

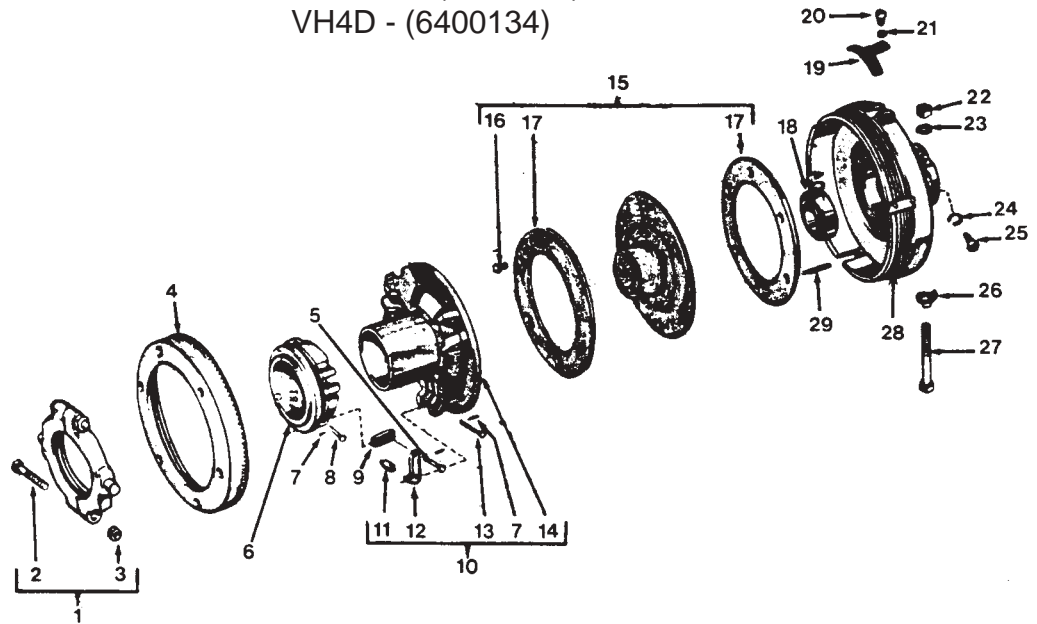
Clutch Assembly

7810063

Hatz - Z788 (6400266)

Hatz - Z790 (6400300)

VH4D - (6400134)



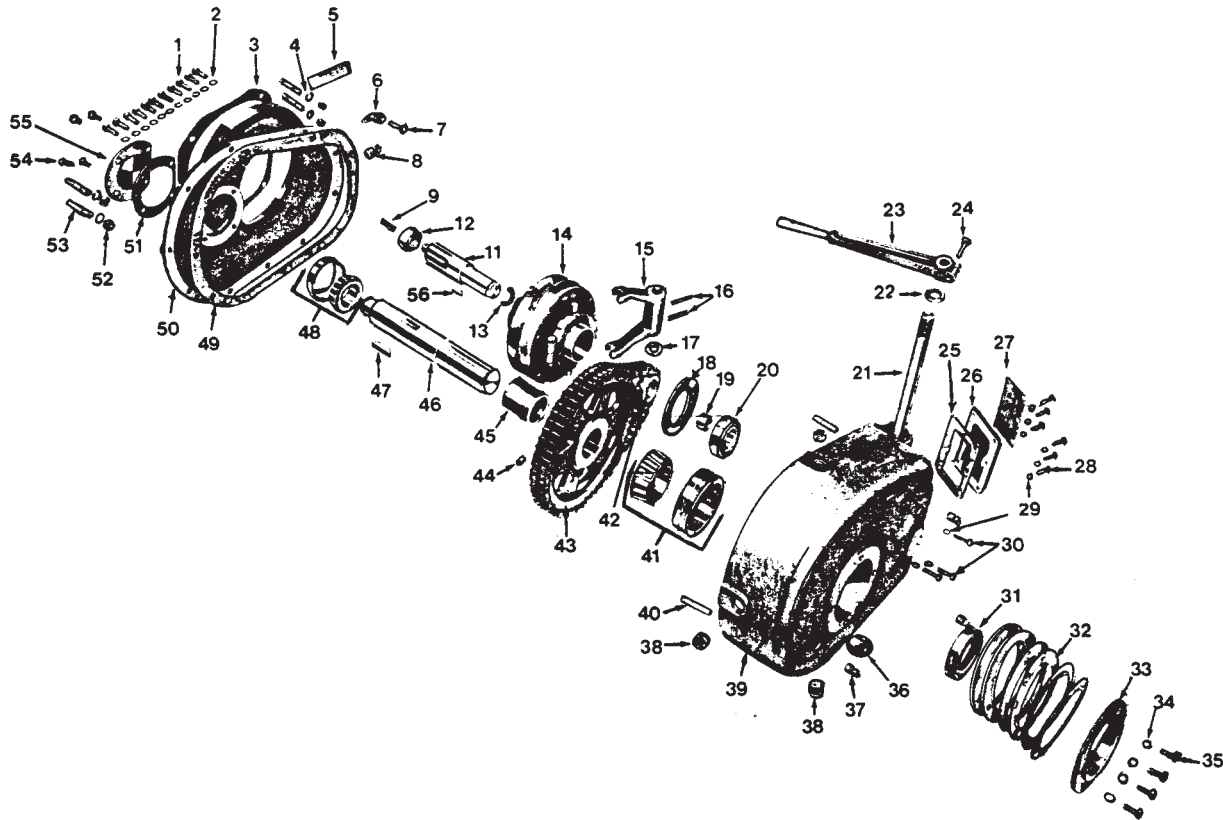
REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	7810095	1	Release Bearing Asm	29	7810059	3	Spring
2	7801172	2	Screw-Hex Hd, 5/16-24 x 1-3/4Lg.				
3	7801173	2	Nut-5/16-24 Elastic Stop				
4	7810096	1	Ring-Adjusting				
5	7810071	3	Pin-Link (Short)				
6	7810094	1	Sleeve-Release				
7	0112526	9	Pin-Cotter, 0.06 x 0.38,PD				
8	7810072	3	Pin-Link (Long)				
9	7810073	6	Link-Connecting				
10	7810090	1	Pressure Plate & Lever Asm				
11	7810093	3	Roller Lever				
12	7810092	6	Lever				
13	7810075	3	Lever Pin				
14	7810091	1	Pressure Plate Asm				
15	7810057	1	Drive MBR. Asm				
16	7810056	6	Rivet-Facing(Brass)				
17	7810058	2	Facing				
18	7810084	1	Bearing-Pilot				
19	7810087	1	Lock-Adjusting				
20	7810080	1	Screw-Lock Adjusting				
21	7810089	1	Lockwasher-Clutch				
22	7810066	2	Nut-Screw Clamp				
23	7810064	1	Washer-Lock, 0.38 Pos.				
24	7810086	1	Washer-Lock, 0.31 Ext.				
25	7810085	1	Screw-Set				
26	7810065	1	Screw-Lock				
27	7810067	2	Screw-Clamp				
28	7810083	1	Housing				

Clutch Reduction Gear Assembly

6410069 - For VH4 Engines

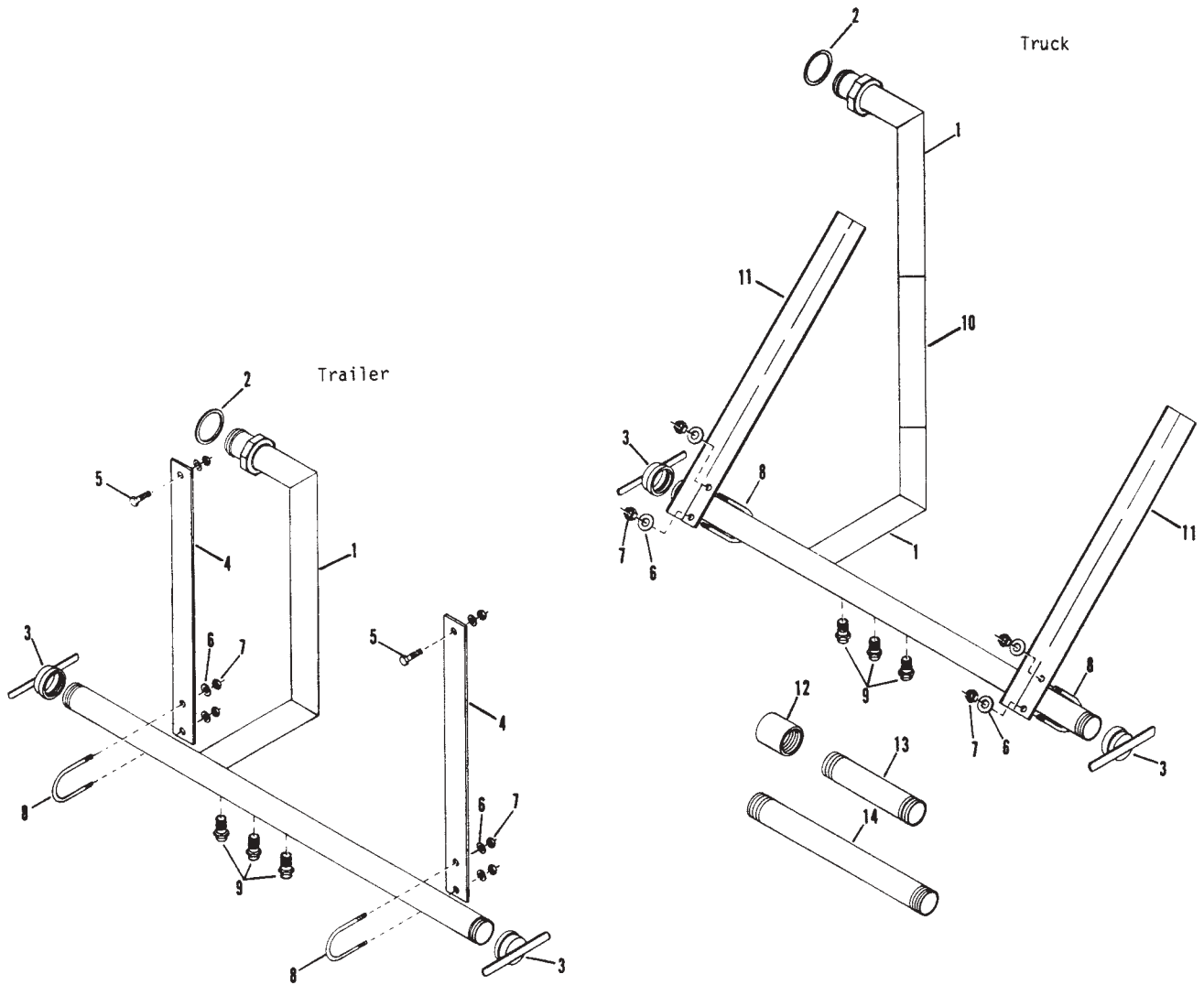
Hatz - Z788 (6400226)

Hatz - Z790 (6400300)



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	0120233	11	Screw-Hex, 0.38NC x 1.00, GR2,PD	30	0121900	3	Screw-Hex, 0.25NC x 1.00,GR2,PD
2	0120382	11	Washer-Lock, 0.38 Spring,PD	31	7801157	1	Seal-Oil Shaft
3	7801164	1	Gasket	32	7801162	AR	Gasket
4	0120383	4	Washer-Lock, 0.44, Spring,PD	33	7801144	1	Plate
5	7801138	1	Tag-Instruction, Oil	34	0120214	4	Washer-Lock, 0.31, Spring,PD
6	0120627	1	Elbow-Pipe, 45, ST, 0.12NPT,BR	35	0122007	4	Screw-Hex, 0.31NC x 0.75,GR2,PD
7	7801127	1	Breather	36	0117923	1	Plug-Expansion, 1.38"
8	0219199	5	Plug-Pipe,SqHd,0.50NPT,PN	37	0219189	2	Plug-Pipe,SqHd, o.25NPT,PN
9	7801160	1	Key-Sq. Hub Dr.	38	0116566	1	Plug-Pipe, 0.50NC
10	7810084	1	Bearing-Pilot (Incl. w/Ref# 14)	39	7801148	1	Cover-Housing
11	7801168	1	Shaft Drive	40	7801155	2	Pin-Dowel
12	7810084	1	Pilot Bearing	41	7801152	1	Bearing Asm
13	7801159	1	Ring-Retaining	42	7801169	1	Gear-Driver
14	7810063	1	Clutch Asm	43	7801170	1	Gear-Driven
15	7810062	1	Yoke, Shifter	44	0102775	1	Screw-Headless, 0.31NC x 0.62Lg.
16	0453760	2	Pin-Roll, 0.25 x 1.125Lg.	45	7801149	1	Spacer
17	7801151	1	Spacer-Yoke	46	7801166	1	Shaft-Take-Off
18	7801146	1	Plate-Brg.	47	0112654	1	Key-#29 Woodruff, 0.38 x 2.12,PN
19	7801150	1	Spacer, Brg.	48	7801153	1	Gearing Asm
20	7801154	1	Bearing-Shaft	49	7801165	1	Gasket-Cover
21	7801167	1	Shaft-Shifter	50	7801171	1	Housing
22	7801132	1	Seal-Oil	51	7801161	1	Gasket-Plate
23	7801140	1	Lever-Shifter	52	0271501	4	Nut-Hex, 0.44NC,PN
24	0120918	1	Screw-Hex, 0.38NC x 1.50 GR2,PD	53	7801156	4	Stud
25	7801163	1	Gasket	54	0156430	4	Screw-Flathead, 0.31NC x 0.75Lg.
26	7801147	1	Cover	55	7801145	1	Plate-Retainer
27	7801139	1	Plate-Instruction	56	0103462	1	Key-Woodruff, 13, 0.19 x 1.00,PN
28	0139327	6	Screw-Sock, 0.25NC x 0.50,CUP,PN				AR - AS REQUIRED
29	0120386	9	Washer-Flat, 0.25A(0.31 x 0.73)PD				

Pipe Spray Bar - Rigid

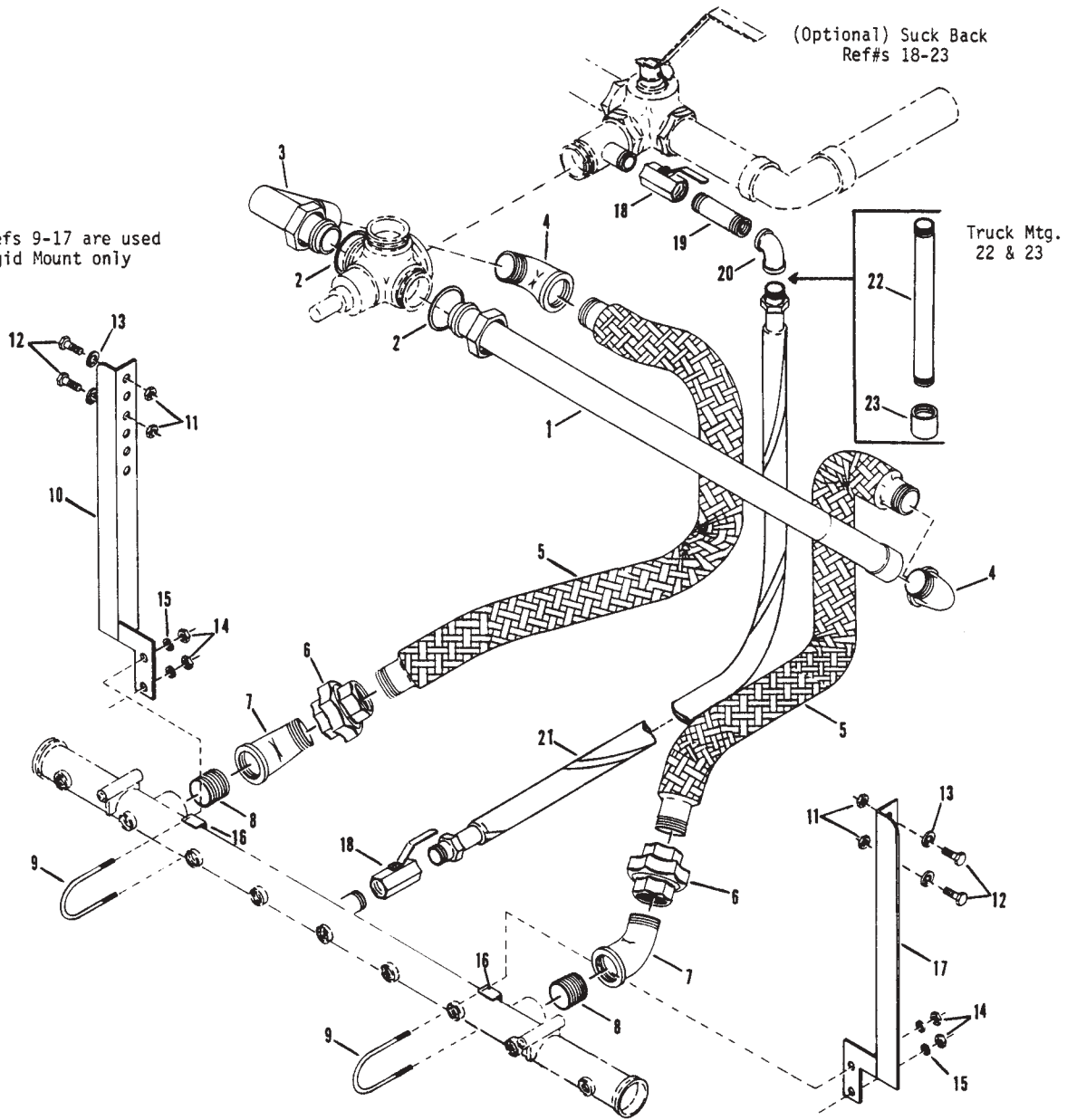


REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2650264	1	Bar Asm, Spraybar	11	2650174	2	Hanger Bar
2	6600208	1	Gasket-2.75 x 3.12, Copper ASB.	12	0220234	AR	Coupling-Pipe, 2"NPT,PN
3	2640001	2	Cap Asm-Pipe, 2"	13	3351016	AR	Section-1Ft.
4	2650266	2	Bracket-Pipe Bar Hanger	14	3351017	AR	Section-2Ft.
5	0122145	2	Screw-Hex, 0.38NC x 1.25, GR2,PD				
6	0120388	AR	Washer-Flat, 0.375 Wide				
7	0274993	AR	Nut-Hex, Lock, 0.38NC,EA,PD				
8	3390085	2	Clip-2" Pipe				
9	3351013	AR	Nozzle-0.06				
	3351015	AR	Nozzle-0.093				
	3352205	AR	Nozzle-V Type, Nominal 3.5GPM				
	3351014	AR	Nozzle-0.56				
	3351008	AR	Nozzle-0.25				
	3351009	AR	Nozzle-0.31				
	3351007	AR	Nozzle-0.09-End				
	3351006	AR	Nozzle-0.12-End				
	3351005	AR	Nozzle-0.31-End				
10	2650269	1	Sleeve-Spraybar Extender				AR - AS REQUIRED

Spray Bar - FC

Rigid/Raise & Shifting, System Suckback, Truck & Trailer

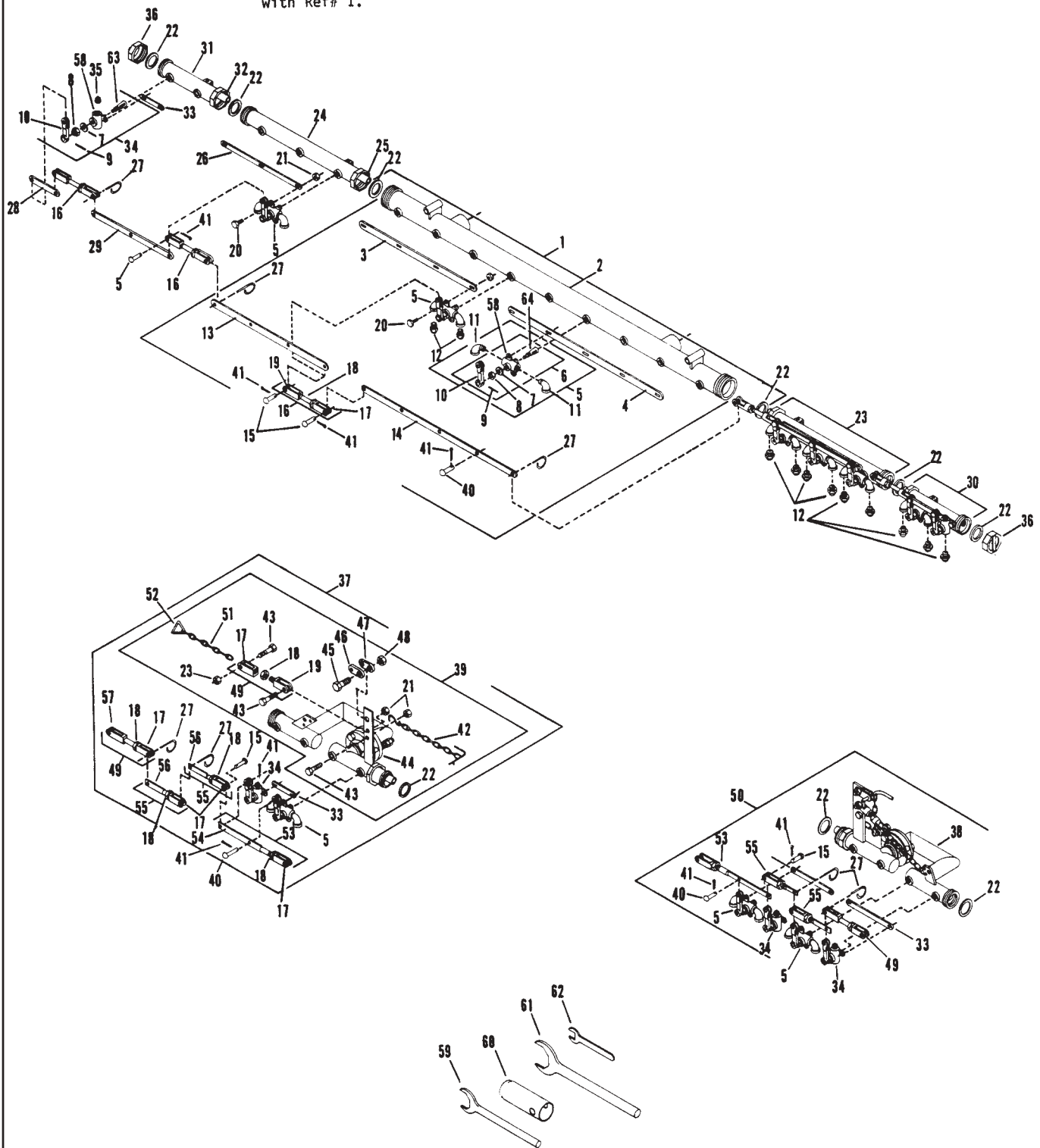
Note: Refs 9-17 are used for Ridgid Mount only



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2640560	1	Pipe Asm-Valve to Bar Feed	17	2650154	1	Hanger Asm - Rt., Trailer
2	6600208	2	Gasket-2.75 x 3.12, Copper ASB	18	2650165	1	Hanger Asm - Rt., Truck
3	2640467	1	Elbow Asm	19	6601177	2	Valve-Ball, 1"
4	0187154	2	Elbow-Pipe, 90, St, 2.00NPT,PN	20	0187866	1	Nipple-PP, Sch 40, 1.00 x 5.00,PN
5	6601860	2	Hose-2.00 - 51.00	21	0119100	1	Elbow-Pipe, 90, 1.00NPT,PN
6	6000419	2	Union-Railroad, 2"	22	6601368	1	Hose Asm-1.00 x 60.00
7	0218220	2	Elbow-Pipe, 45, St, 2.00CL,PN	23	3830429	1	Nipple-PP, Sch 40, 1.00 x 22.00NPT
8	0219400	2	Nipple-Sch 40, 2.00 x 2.00CL,PN		0187399	1	Coupling-Pipe, 1.00NPT
9	3390085	2	Clip-2" Pipe				
10	2650155	1	Hanger Asm - Lt.,Trailer				
	2650166	1	Hanger Asm - Lt.,Truck				
11	0120378	4	Nut-Hex, 0.50NC,PD				
12	0122408	4	Screw-Hex, 0.50NC x 1.00, GR2,PD				
13	0120384	4	Washer-Lock, 0.50, Spring,PD				
14	0120377	4	Nut-Hex, 0.38NC,PD				
15	0120382	4	Washer-Lock, 0.38, Spring,PD				
16	2650171	2	Bracket				

Spray Bar - FC

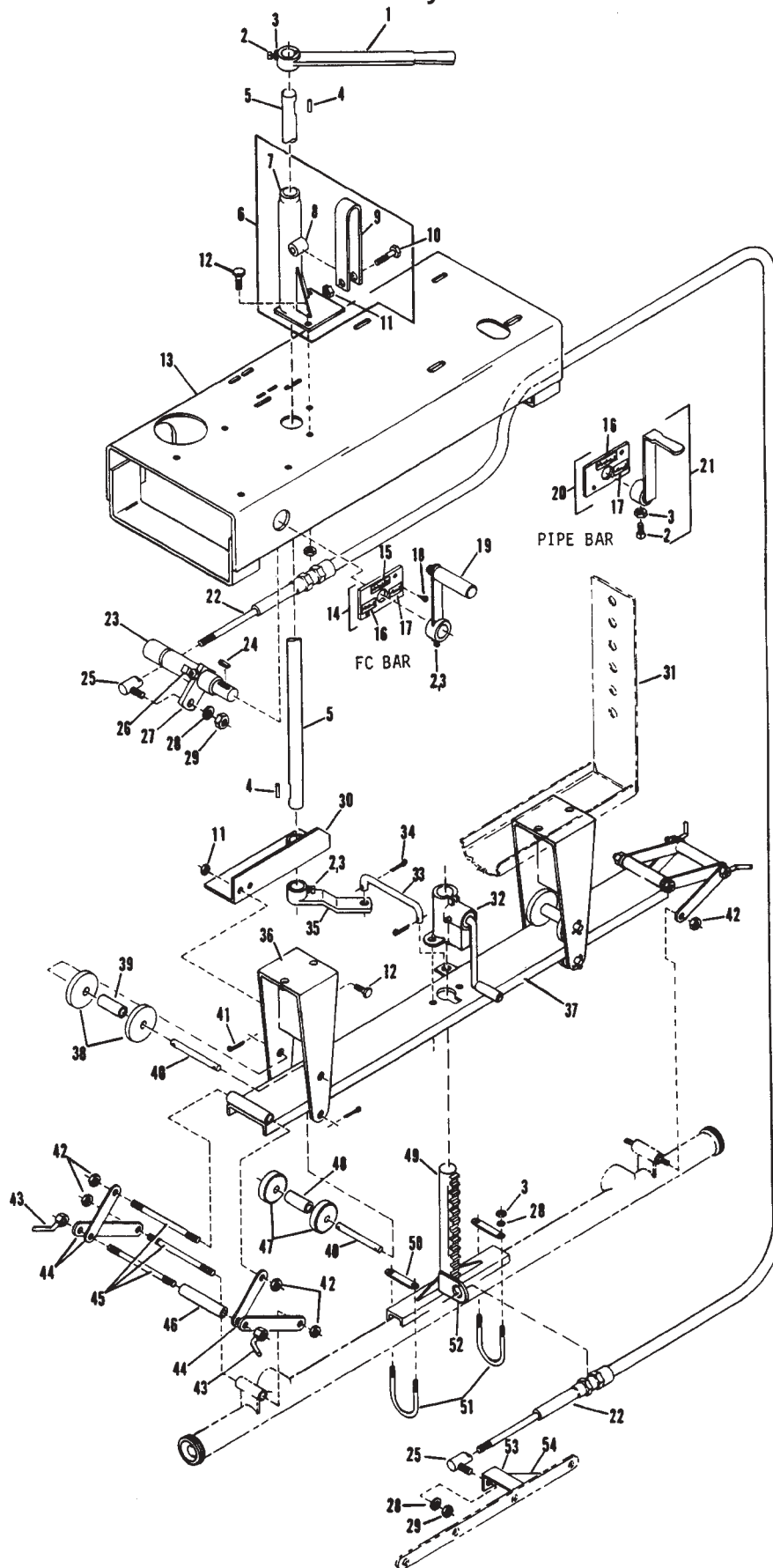
Note: Ref# 36 is included with Ref# 1.



Spray Bar - FC

REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2650144	1	Section Asm-Comp CTR, No Fold	64	3351216	AR	Plug-Valve, Dual Discharge
2	2650146	1	Section Asm-CTR, FC				
3	3350696	1	Bar-Hold, Lt, CTR				
4	3350697	1	Bar-Hold, Rt, CTR				
5	3350693	AR	Vlv Asm-Comp, Double Port				
6	3351571	1	Vlv Asm-Double Port				
7	3350695	1	Washer-Steel				
8	6100245	1	Nut-Hex, Jam, Lock, 0.56NF				
9	0103565	1	Pin-Taper, NO.0 x 1.25,PN				
10	3351187	1	Lever-Valve				
11	3390407	2	El-St, 1/2 In., Short Pattern				
12	3351013	AR	Nozzle-0.06				
	3351015	AR	Nozzle-0.093				
	3352205	AR	Nozzle-V Type, Nominal 3.5 GPM				
	3351014	AR	Nozzle-0.56				
	3351008	AR	Nozzle-0.25				
	3351009	AR	Nozzle-0.31				
	3351007	AR	Nozzle-0.09-End				
	3351006	AR	Nozzle-0.12-End				
	3351005	AR	Nozzle-0.31-End				
13	3350698	1	Bar-Vlv Control, Lt				
14	3350699	1	Bar-Vlv Control, Rt				
15	6000398	AR	Rivet-RdHd, 0.25 x 1.25				
16	3350103	AR	Link Asm-Adj Conn, 2 Ft Section				
17	3350107	AR	Yoke-Threaded, Adj Link				
18	0271506	AR	Nut-Hex, 0.44NF,PD				
19	3350104	AR	Yoke Asm-Weld, Adj Link				
20	0121887	AR	Screw-Hex, 0.25NC x 0.75, GR2,PD				
21	9413946	AR	Nut-Hex, Lock, 0.25NC,EA,PD				
22	6000251	2	Gasket-2.50 x 2.12, Copper ASB				
23	3350095	1	Section Asm-2 Ft, Rt				
	3350094	1	Section Asm-2 Ft, Lt				
24	3350096	1	Tube Asm-2 Ft Section				
25	3350099	1	Tube Inner-2 Ft Section				
26	3350101	1	Link-Vlv Hold-2 Ft Section				
27	3350708	AR	Pull Pin				
28	3350092	2	Control Vlv, 1 Ft Section				
29	3350102	2	Control Vlv, 2 Ft Section				
30	3350084	1	Section Asm-1 Ft, Rt				
	3350083	1	Section Asm-1 Ft, Lt				
31	3350085	1	Tube Asm-1 Ft Section				
32	3350087	1	Tube Asm-Inner, 1 Ft Section				
33	3350090	1	Link-Vlv Hold, Lt, 1 Ft Section				
34	3350093	1	Vlv Asm Complete, Single Port				
35	0219199	1	Plug-Pipe, SqHd, 0.50NPT,PN				
36	3351477	2	Cap Asm-End Spray Bar				
37	2640158	1	Section Asm-Folding, 2 Ft, Lt				
38	2640285	1	Section Asm-2 Ft, Rt				
39	2640286	1	Section Asm-2 Ft Folding Lt				
40	6000397	AR	Rivet-RdHd, 0.25 x 0.88, Drilled				
41	0103362	AR	Pin-Cotter, 0.06 x 0.75,PD				
42	3350785	2	Pin Asm-Yoke, Relieving Section				
43	0121887	4	Screw-Hex, 0.25 x 0.75, GR2,PD				
44	2640160	1	Section Asm-Folding, 2 Ft				
45	0122433	1	Screw-Hex, 0.50NC x 1.50, GR2,PD				
46	3350783	1	Lt Side Half Clevis W/Pin				
	3350784	1	Rt Side Half Clevis W/Pin				
47	3350782	1	Clv-Half, Relieving, Section				
48	9411727	1	Nut-Hex, Lock, 0.50NC,EA,PD				
49	2640288	1	Link Asm-End, Folding Section				
50	2640159	1	Section Asm-Folding, 2 Ft,Rt				
51	2640400	2	Chain-Support, 2 Ft, Folding Section				
52	3350770	2	Link-Short, Chain, Relieving Sect.				
53	2640174	1	Link Asm-Folding Section				
54	2640175	1	End Asm-Link, Folding Section				
55	2640287	1	Link Asm-Short, Folding Section				
56	2640177	1	Link-Short				
57	2640179	1	End Asm-Link				AR - AS REQUIRED
58	3350038	1	Body-Valve				
59	3380092	1	Wrench-1.50 Union				
60	3380080	1	Wrench-Tank Gauge				
61	3380079	1	Wrench-2" Union				
62	6000376	1	Wrench #5 Armstrong				
63	3350039	1	Plug-Valve				

Raise - Shift - Carry Mechanism

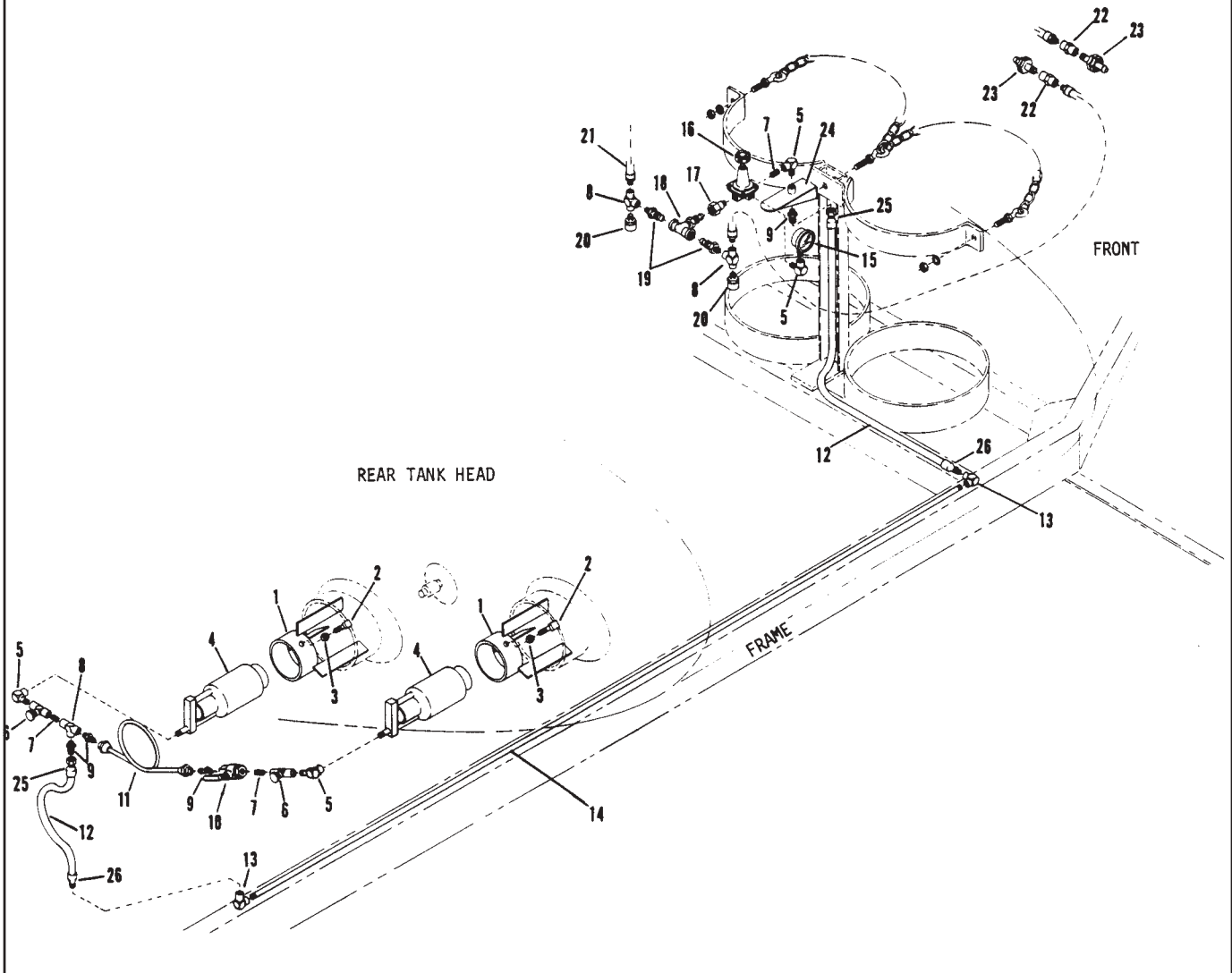


Raise - Shift - Carry Mechanism

REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	3351059	1	Lever Asm-Oper, Left Valve				
2	0128228	AR	Screw-SqHd, 0.38NC x 0.75, CUP,PN				
3	0120377	3	Nut-Hex, 0.38NC,PD				
4	6000011	2	Key-0.25 x 0.25CR x 1.00,Rd End				
5	3350272	1	Shaft-Shifting (Trailer)				
	2660048	1	Shaft-Shifting (Truck)				
6	2660037	1	Brkt Asm-Upper Shift Shaft Mt.				
7	2660043	1	Base Asm-Upper				
8	2660041	1	Bushing-Lock, Bar Mt. & Pivot				
9	3350046	1	Lever-Lock Shifting				
10	0122207	1	Screw-Hex, 0.38NC x 3.00, GR2,PD				
11	0274993	5	Nut-Hex, Lock, 0.38NC,EA,PD				
12	0120233	4	Screw-Hex, 0.38NC x 1.00, GR2,PD				
13	2620157	1	Base-Asm Mt. Eng. & Pump (TRL)				
	2620158	1	Base-Asm Hatz Eng & Pump (TRK)				
14	2640458	1	Plate Asm-Vlv Position 4 Way				
15	3360172	1	Plate-Name Circulate in Bar				
16	3360176	1	Plate-Name Distribute				
17	3360178	1	Plate-Name Circulate				
18	0145377	AR	Screw-Drive, RdHd, 4 x 0.31,PD				
19	2640437	AR	Lever Asm-Vlv Oper, 4 Way				
20	2640457	AR	Plate Asm-Vlv Pos, 4 Way				
21	2640480	AR	Handle Asm, Vlv Oper Discharge				
22	6000790	1	Cable-Push, Pull				
23	2640562	1	Shaft-4 Way Vlv Oper				
24	6000005	1	Key-0.25 x 0.25CR x 1.25 RdHd				
25	6100138	2	Joint-Ball, 0.38NF				
26	0106851	1	Screw-SqHd, 0.38NC x 1.25,Dog,PN				
27	2650145	1	Arm-Actuating Spbr Vlv				
28	0120382	6	Washer-Lock, 0.38, Spring,PD				
29	0120369	2	Nut-Hex, 0.38NF,PD				
30	2660034	1	Brkt-Lower				
31	2650160	1	Hanger Asm				
32	2660026	1	Gear Box Asm, Bar Raise				
33	2660045	1	Link-Shifting				
34	0137185	2	Pin-Cotter, 0.12 x 1.00,PD				
35	2660044	1	Arm Asm-Shifting				
36	2650140	2	Brkt-Roller Mt. & Bar Support				
37	2650132	1	Channel Asm-Spbr Carrying				
38	2650131	4	Roller-Bar Retaining Upper				
39	2650139	2	Spacer-Roller Upper				
40	2650129	4	Pin-Roller				
41	0103374	8	Pin-Cotter, 0.94 x 1.00,PD				
42	9411727	8	Nut-Hex, Lock, 0.50NC,EA,PD				
43	3350795	4	Nut Asm-Wing, Bar Stand				
44	2650133	8	Plate-Spbr Hanging & Retaining				
45	2650150	6	Pin-Scissors				
46	2650152	2	Spacer-Scissors				
47	2650159	4	Disc Roller Asm				
48	2650168	2	Spacer-Discs Roller Lower				
49	2660028	1	Rack Asm				
50	2660031	2	Plate-Clamping				
51	3390085	2	Clip-2" Pipe				
52	2660047	1	Brkt-Mt. Cable				
53	2650239	1	Brkt-Cable				
54	2650238	1	Gusset-Cable Brkt				

AR - AS REQUIRED

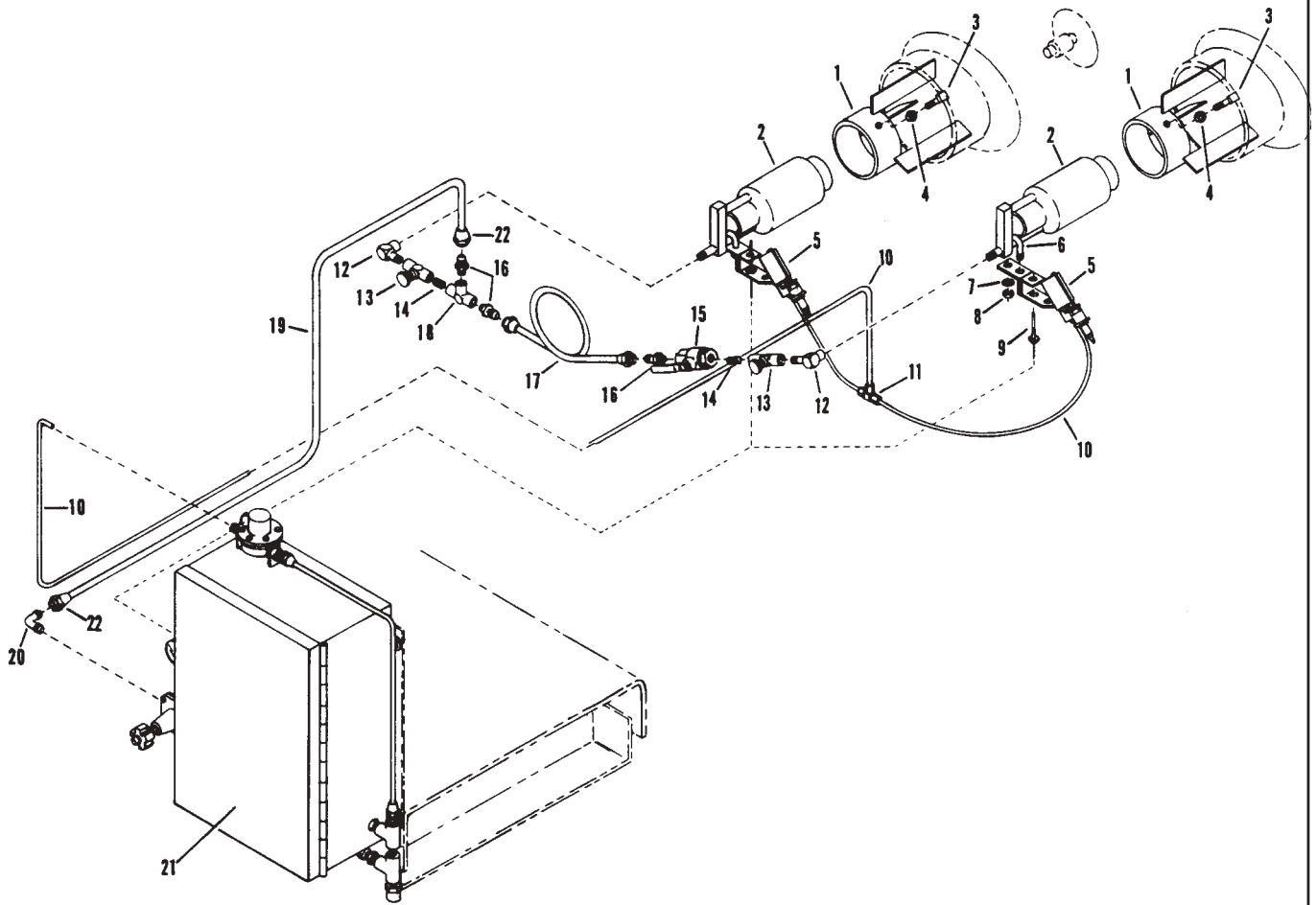
LPG Burners & Supply Trailer Setup



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2630386	2	Bracket-Burner B2, 8" Flue	21	3330976	2	Hose Asm-Propane, 5/16 ID/Ft.
2	0184365	2	Screw-SqHd, 0.38NC x 1.00, CUP,PD	22	0444097	2	Adapter-Auto, St, 04FP-04FP,PD
3	0120377	2	Nut-Hex, 0.38NC,PD	23	6500223	2	Coupling-Swivel, LPG
4	6500011	2	Burner-LPG,B2, Dual Fuel	24	3331109	1	Bracket Asm
5	0454109	4	Elbow-Auto, 90, 04FP-04MP,PD	25	6600788	2	Hose End-06 x 06FJX, St, MP100R3
6	6500064	2	Valve-Needle, 0.25NPTF, W/Pilot	26	6200366	2	Hose End-5/16 Propane-1/4NPT
7	6200292	3	Nipple-PP Sch 80, 0.25 x 0.87CL,PD				
8	0454121	3	Tee-Auto, 04FP-04FP,PD				
9	0118750	2	Adapter-Auto, St, 04MP-06MS				
10	6500366	1	Valve-Ball, 0.25				
11	3331108	1	Tube Asm				
12	6600645	AR	Hose-Propane, 5/16 ID/Ft.				
13	0454085	2	Elbow-Auto, 90, 04FP-04FP,PD				
14		1	Nipple Sch 80, 0.25 x (Per Tank Size)				
15	6600196	1	Gauge-Pressure, 1.0 In., 0-100 PSIG				
16	7720018	1	Regulator-Pressure				
17	6600785	1	Adapter-POL x 0.25MPT				
18	6602028	1	Throwover Valve-Auto				
19	6600043	2	Connector-Tank				
20	7720014	2	Valve Relief, 450 PSI				

AR - AS REQUIRED

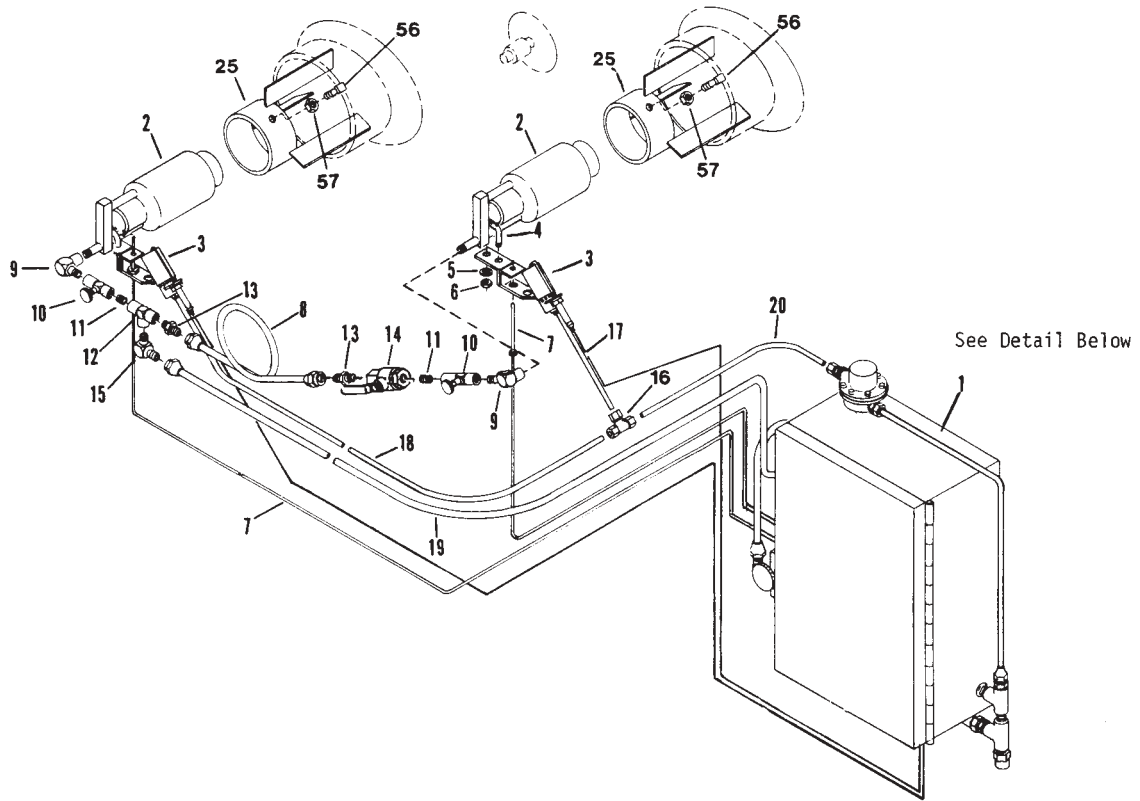
Thermocontrol - B2 LPG Burners Trailer Setup



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2630386	2	Bracket-Burner, B-2 8" Flue				
2	6500011	2	Burner-LPG B-2 Dual Fuel				
3	0184365	2	Screw-SqHd, 0.38 x 1.00 CUP,PD				
4	0120377	2	Nut-Hex, 0.38NC,PD				
5	3331877	2	Pilot Asm W/Plug & Mtg. Bracket				
6	3331878	2	Clip Pipe 1/4"NC				
7	0120380	4	Washer-Lock, 0.25 Spring,PD				
8	0120367	4	Nut-Hex, 0.25NF,PD				
9	6500113	2	Thermocouple				
10	6309068	AR	Tube-0.25 Copper,Ft.				
11	6602039	1	Tee-Auto, 04MC-04MC-04MC				
12	0454109	2	Elbow-Auto, 90, 04FP-04MP,PD				
13	6500064	2	Valve-Needle, 0.25NPTF, w/Pilot				
14	6200292	2	Nipple, Sch 80, 0.25 x 0.87CL,PD				
15	6500366	1	Valve-Ball, 0.25				
16	0118750	3	Adapter-Auto, St, 04MP-06MS				
17	3331108	1	Tube Asm				
18	0454121	1	Tee-Auto, 04FP-04FP-04FP,PD				
19	6309071	AR	Tube-0.38 x 0.25 Copper, Type L, Ft.				
20	0118755	1	Elbow-Auto, 90, 04MP-06MS				
21	6500192	1	Control-Flame Out & Temp, LPG Burner				
22	0121758	2	Nut-Flared, 3/8 OD TBG x 1.00 Lg.				

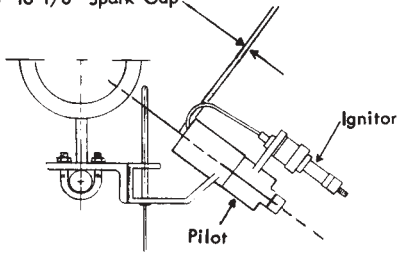
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Thermocontrol - B2 Burners Truck Setup

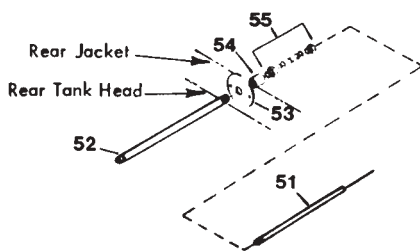


Set-up both burners as shown below
3331877

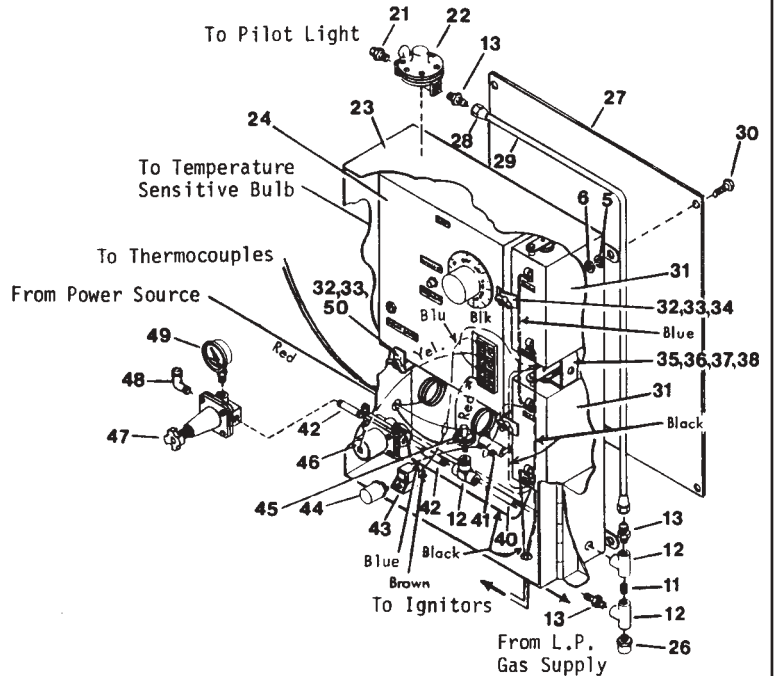
1/16" to 1/8" Spark Gap



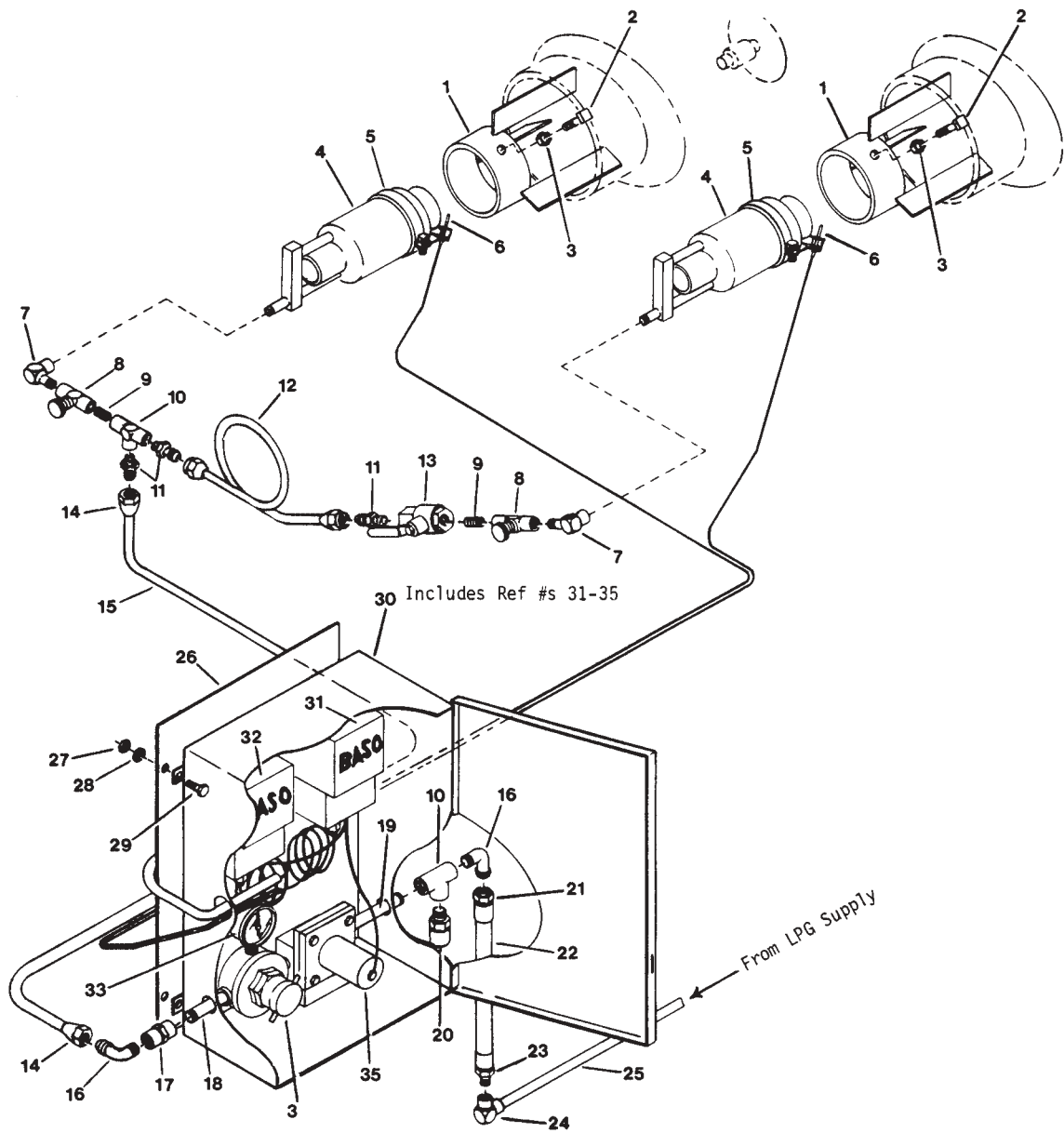
Well-Thermometer Installation



Detail of Thermocontrol Box



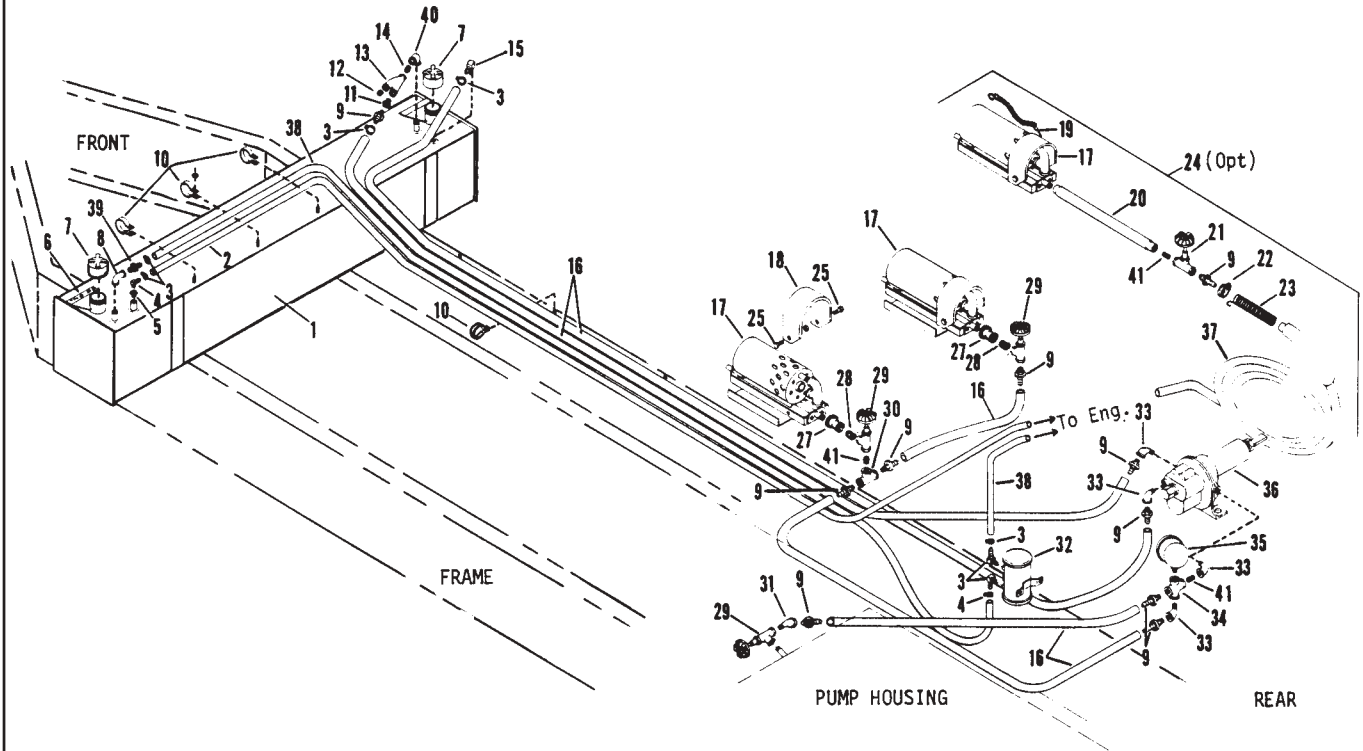
Outfire - B2 LPG Burners



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2630386	2	Bracket, B-2 8" Flue	21	6600788	1	Hose End, 06 x 06FJX, St, MP100R3
2	0184365	2	Screw-SqHd, 0.38 x 1.00, CUP,PD	22	6600645	AR	Hose-Propane, 5/16 ID/Ft
3	0120377	2	Nut-Hex, 0.38NC,PD	23	6200366	1	Hose End-5/16 Propane-1/4NPT
4	6500011	2	Burner-LPG, B-2	24	0454085	1	Elbow-Auto, 90, 04FP-04FP,PD
5	7720039	2	Bracket Asm	25		1	Nipple-Sch 80, 0.25 x (Per Tank Size)
6	6500113	2	Thermocoupling	26	2660018	1	Plate Mtg.
7	0454109	2	Elbow-Auto, 90, 04FP-04MP,PD	27	0120375	4	Nut-Hex, 0.25NC,PD
8	6500064	2	Valve-Needle, 0.25NPTF,W/Pilot	28	0120380	4	Washer-Lock, 0.25NC,PD
9	6200292	2	Nipple-Sch 80, 0.25 x 0.87CL,PD	29	0121887	4	Screw-Hex, 0.25NC x 0.75,GR2,PD
10	0454121	2	Tee-Auto, 04FP-04FP-04FP,PD	30	6500020	1	Shut Off, 12V
11	0118750	3	Adp-Auto,St,04MP-06MS	31	7720045	1	Switch-Safety W/Push Button
12	3331108	1	Tube Asm	32	6500133	1	Switch-Safety W/O Push Button
13	6500366	1	Valve-Ball, 0.25	33	6600196	1	Gauge-Pressure, 2", 0-100 PSIG
14	0121758	2	Nut-Flared, 0.38 OD TBG x 1.00 Lg.	34	6500008	1	Regulator-Pressure
15	6309071	AR	Tube, 0.38 x 0.25 Copper, Type L,Ft	35	7720011	1	Valve-Gas Electric 250 PSI-12V
16	0118755	2	Elbow-Auto, 90, 04MP-06MS				
17	0444097	1	Adp-Suto, St, 04FP-04FP,PD				
18	6200417	1	Nipple-Pipe, Sch 80, 0.25 x 1.50,PD				
19	6200419	1	Nipple-Pipe, Sch 80, 0.25 x 3.50,PD				
20	7720014	1	Valve-Relief. 450 PSI				

AR - AS REQUIRED

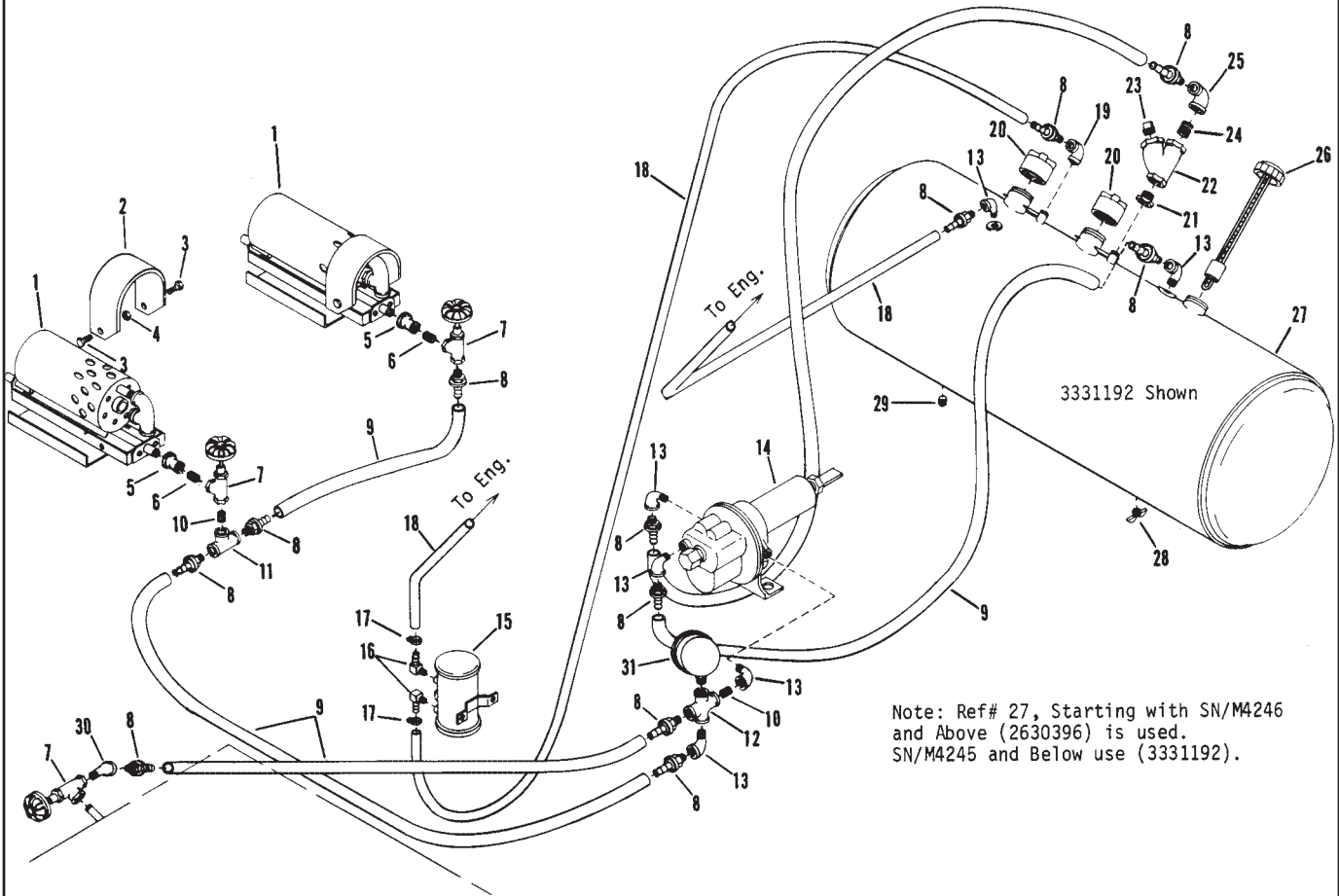
Generating Burners & Supply Trailer/Optional



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2630302	1	Tank Asm-Fuel, 2 Compt.	27	0111644	2	Coupling-Pipe, 0.38 x 0.25NPT,PN
2	6601452	AR	Hose 1/4" (Specify Length)	28	0105405	2	Nipple-Sch 40, 0.25 x 0.87CL,PN
3	6001005	AR	Clamp-Hose, Screw Type, M5	29	6600193	3	Valve-Globe, Angle, 0.25 Needle
4	6602399	3	Hose Barb-04 x 02MP90,LP	30	0105417	1	Tee-Pipe, 0.25NPT,PN
5	0119930	1	Bushing-Pipe, 0.25 x 0.12NPT,PNTL	31	0105415	1	Elbow-Pipe, 45, 0.25NPT,PN
6	3360180	2	Plate-Fill W/Diesel Fuel Only	32	7310028	1	Fuel-Pump Ele, 12V
7	6100235	2	Cap-Filler, Fuel Tank	33	0105423	4	Elbow-Pipe, 90, St, 0.25NPT,PN
8	0105413	1	Elbow-Pipe, 90, 0.25NPT,PN	34	0105419	1	Pipe-Cross, 0.25NPT,PN
9	6600305	AR	Hose End-06 x 04MP,St,LPSP	35	6600196	1	Gauge-Pressure, 2.0 In.
10	6000059	AR	Clamp-0.62 Rubber Tube	36	2630147	1	Pump Asm-Fuel
11	0119931	1	Bushing-Pipe, 0.38 x 0.25NPT,PN	37	2630191	1	Line-Fuel
12	0143980	1	Plug-Pipe, SqHd, 0.38NPT,PD	38	6309248	AR	Hose-Fuel Line, 0.31 ID/Ft.
13	6600199	1	Strain-Sty B, Typ Y	39	6445028	1	Hose End-04 x 04MP, St, LP
14	0121207	1	Nipple-Sch 40, 0.38 x 1.00CL,PN	40	0120284	1	Elbow-Pipe, 0.38 x 0.25NPT,PN
15	6602402	1	Hose Barb-06 x 04MP90,LP	41	0105405	2	Nipple-Sch 40, 0.25 x 0.87CL,PN
16	6600324	AR	Hose-3/8 Per Ft. (Specify Length)				
17	3330003	2	Burner Asm-E.G. Small				
18	2630163	2	Cover-Generating Burner				
19	3330249	1	Locking Pin				
20	2630080	1	Handle Asm-Removable Burner				
21	6600194	1	Valve-Globe, St, 0.25 Needle				
22	6000087	1	Clamp-Hose, 0.56-1.06				
23	3330333	1	Sheath-Portable Burner Hose				
24	2630196	1	Burner Asm-Removable, Lt Side				
25	0120706	4	Screw-Hex, 0.25NC x 0.50, GR2,PD				
26	9413946	4	Nut-Hex, Lock, 0.25NC,EA,PD				

AR - AS REQUIRED

Generating Burners Truck



Note: Ref# 27, Starting with SN/M4246 and Above (2630396) is used. SN/M4245 and Below use (3331192).

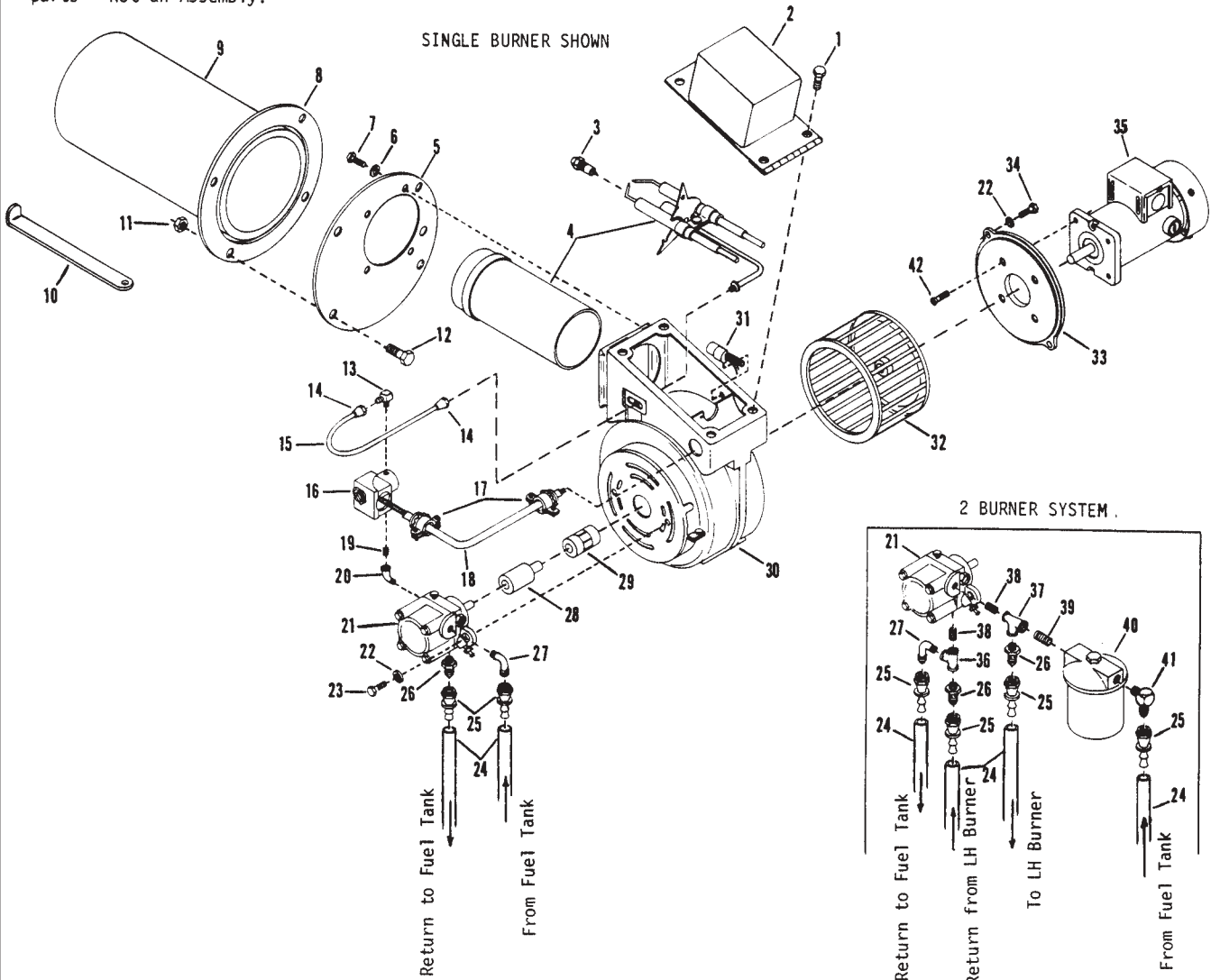
REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	3330003	2	Burner Asm-E.G. Small	24	0121207	1	Nipple-Sch 40, 0.38 x 1.00CL,PN
2	2630163	2	Cover	25	0120284	1	Elbow-Pipe, 0.38 x 0.25NPT,PN
3	0120706	4	Screw-Hex, 0.25NC x 0.50, GR2,PD	26	6601307	1	Gauge-Liquid, Level, 14" Tanks
4	9413946	4	Nut-Hex, Lock, 0.25NC,EA,PD	27	3331192	1	Tank Asm, 2 Compt. 14 x 42
5	0111644	2	Coupling-Pipe, 0.38 x 0.25NPT,PN	2630396	1	Tank Asm 2 Compt. 14 x 40	
6	0105405	2	Nipple-Sch 40, 0.25 x 0.87 CL,PN	28	6600162	1	Cock-Drain, 0.25 In.
7	6600193	3	Valve-Globe, Angle, 0.25 Needle	29	0219189	1	Plug-Pipe, 0.25NPT,PN
8	6600305	AR	Hose End-06 x 04MP, St, LPSP	30	0105415	1	Elbow-Pipe, 45, 0.25NPT,PN
9	6600324	AR	Hose-3/8 Per Ft. (Specify Length)	31	6600196	1	Gauge-Pressure, 2.0"
10	0105405	2	Nipple-Sch 40, 0.25 x 0.87CL,PN				
11	0105417	1	Tee-Pipe, 0.25NPT,PN				
12	0105419	1	Pipe-Cross, 0.25NPT,PN				
13	0105423	6	Elbow-Pipe, 90, St, 0.25NPT,PN				
14	2630147	1	Pump Asm-Fuel				
15	7310028	1	Fuel Pump Ele., 12V				
16	6602399	2	Hose Barb-04 x 02MP90,LP				
17	6001005	2	Clamp-Hose, Screw Type,M5				
18	6309248	AR	Hose-Fuel Line, 0.31 ID/Ft.				
19	0105413	1	Elbow-Pipe, 90, 0.25NPT,PN				
20	6100235	2	Cap-Filler, Fuel Tank				
21	0119931	1	Bushing-Pipe, 0.38 x 0.25NPT,PN				
22	6600199	1	Strain-Sty B, Typ Y				
23	0143980	1	Plug-Pipe, SqHd, 0.38NPT,PD				

AR - AS REQUIRED

Fuel Oil Burner Installation

Note: Ref#s 8 & 9 are separate parts - Not an Assembly.

SINGLE BURNER SHOWN



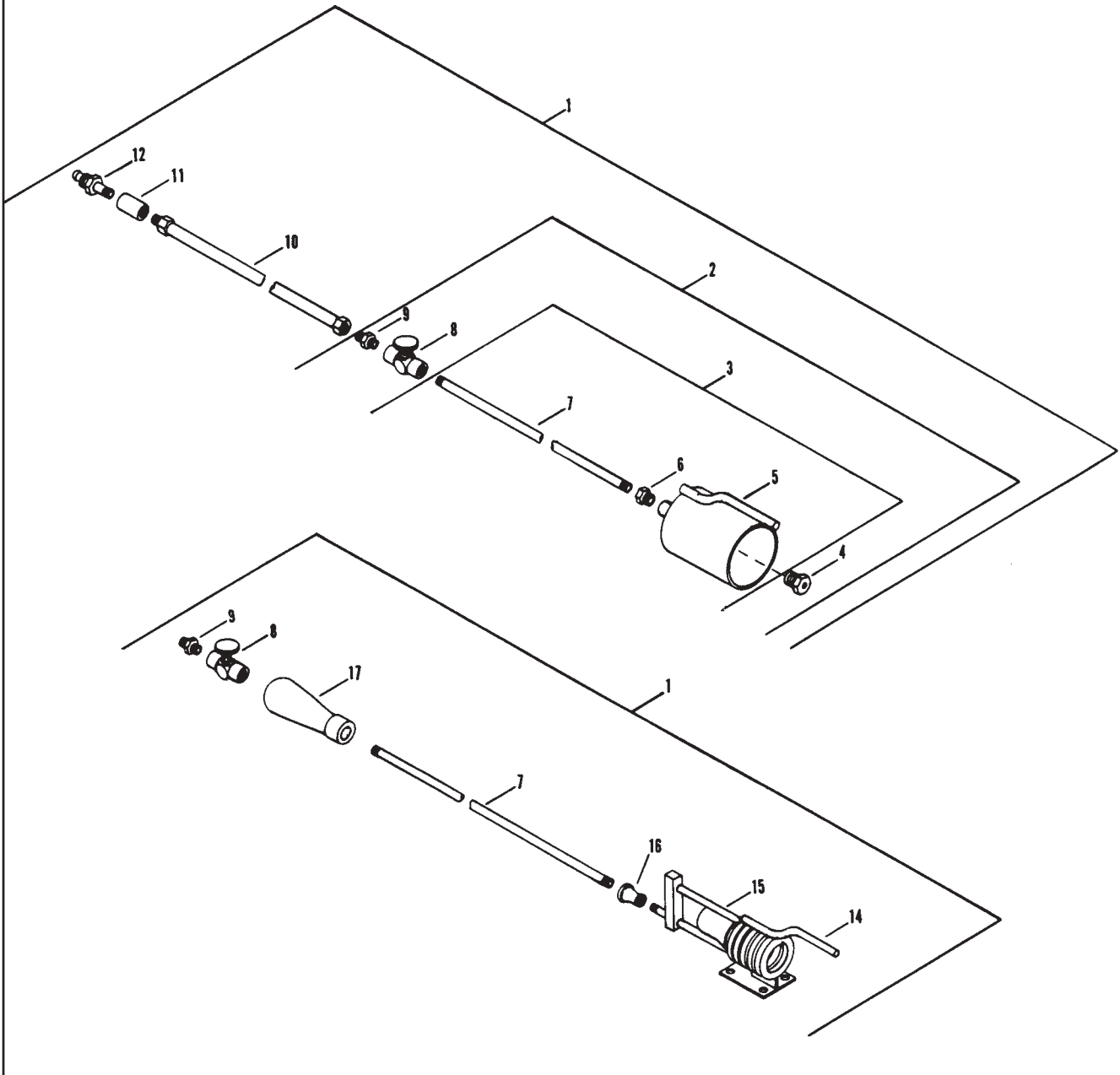
2 BURNER SYSTEM .

REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	0120706	4	Screw-Hex, 0.25NC x 0.50, GR2,PD	25	6600306	2	Hose End-06 x 06FSX,ST,LPS
2	6500344	1	Transformer-Ignition	26	9402708	1	Adp-Hyd, St, 04MP x 06MJ
3	6500357	1	Nozzle-Burner, 2.0 GPH, 30 Hollow	27	0118755	1	Elbow-Auto, 90, 04MP-06MS
4	6500337	1	Burner Air Tube Combination	28	3331263	1	Shaft
	6500351	1	Burner Head	29	6601956	1	Coupling-Type L, 0.50"
5	3331308	1	Flange-Burner Mount	30	6500343	1	Housing Asm
6	0120238	4	Washer-Lock, 0.25, Spring,PD	31	6500346	1	Cad Cell
7	0121887	4	Screw-Hex, 0.25NC x 0.75, GR2,PD	32	6500345	1	Blower Wheel, 6.25 Dia
8	3331277	1	Flue Mounting	33	3331887	1	Plate-Motor Mount
9	6500041	1	Tube-Comb.	34	0122007	2	Screw-Hex, 0.31NC x 0.75, GR2,PD
10	3331270	1	Holder-Hi Pressure Comb. Tube	35	6702340	1	Motor-Electric, 1/4HP, 12V,3600RPM
11	0274993	4	Nut-Hex, Lock, 0.38NC,EA,PD	36	0105417	1	Tee-Pipe, 0.25NPT,PN
12	0120233	4	Screw-Hex, 0.38NC x 1.00, GR2,PD	37	0281839	1	Tee-Pipe, 0.38 x 0.25 x 0.25NPT,PN
13	6200362	1	Elbow-3/16 Tube x 1/8MPT	38	0105405	2	Nipple-Sch 40, 0.25 x 0.87CL,PN
14	0120704	2	Nut-Flared Tube, 0.18 x 0.81	39	0121207	1	Nipple-Sch 40, 0.38 x 1.00CL,PN
15	6309067	AR	Tube-0.19 Copper	40	6500342	1	Filter Asm
16	6500335	1	Valve-Fuel Oil, 12V, NC, 0.12NPT	41	6601200	1	Elbow-Hyd, 90, 06MJ-06MP
17	6701510	2	Connector-Romex, 0.75	42	6100391	4	Screw-F1Hd Sock, 0.25NC x 0.75PD
18	6000107	AR	Loom-1/4"				
19	0105404	1	Nipple-PP, Sch 40, 0.12 x 0.75PN				
20	0105422	1	Elbow-Pipe, 90, St, 0.12NPT,PN				
21	6500347	1	Pump Fuel Burner				
22	0120214	6	Washer-Lock, 0.31, Spring,PD				
23	0122017	2	Screw-Hex, 0.31NC x 1.00, GR2,PD				
24	6600324	AR	Hose-0.38, Per Ft.				

Quantities Shown are for 1 Burner

AR - AS REQUIRED

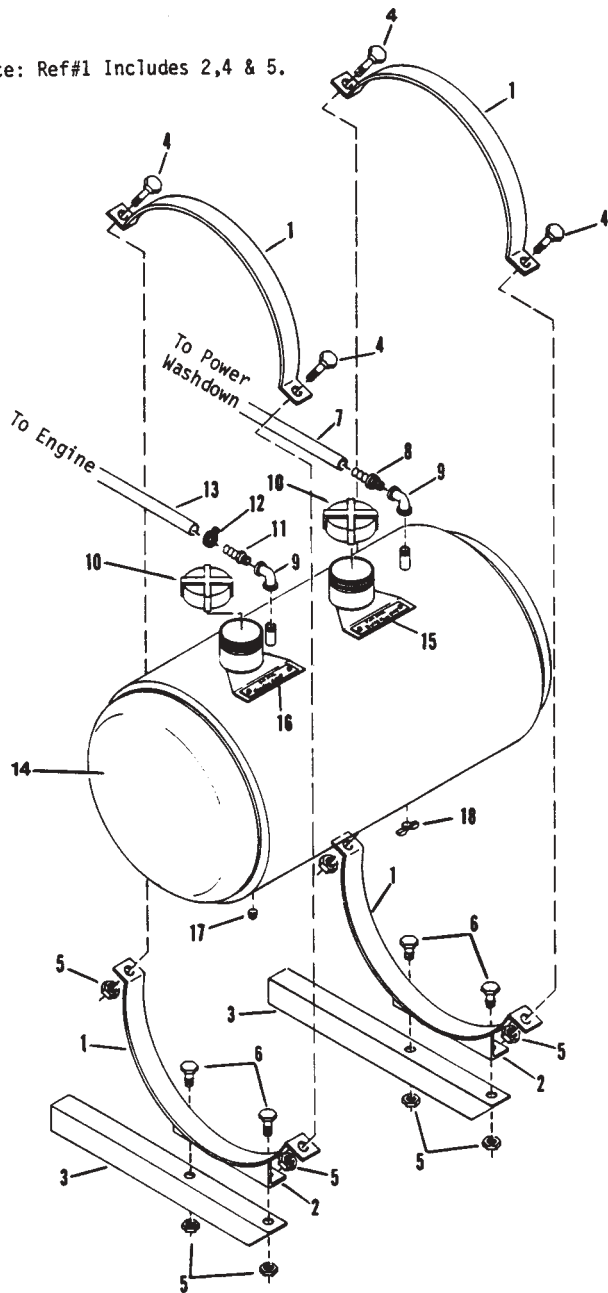
Portable Burners Vapor Propane & Liquid



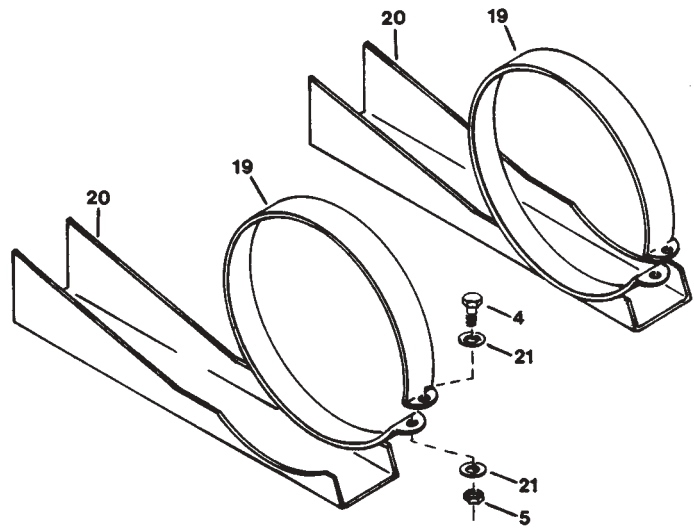
REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	7720046	1	Burner Asm	16	0105420	1	Coupling-Pipe, 0.25 x 0.12NPT,PN
2	3330296	1	Portable Burner Asm	17	7700025	1	Grip-Hand Hauck
3	3330297	1	Burner/Handle Asm				
4	3330001	1	Plug				
5	3330298	1	Shroud Asm				
6	0119931	1	Bushing-Pipe, 0.38 x 0.25NPT,PN				
7	6200251	1	Pipe-Sch 40, 0.25 x 30.00,TBE,PN				
8	6500064	1	Valve-Needle, 0.25NPTF,W/Pilot				
9	4470350	1	Nipple-Hex, 0.25 x 1.125				
10	6601692	1	Hose-Burner, Portable Propane,1/4				
11	0144068	1	Coupling-Pipe, 0.25NPT,PD				
12	6600043	1	Connector				
13	3331282	1	Burner Asm, W/O Hose				
14	3330356	1	Holder				
15	6500071	1	Burner-Liquid Propane				

Fuel Tank & Mounting

Note: Ref#1 Includes 2,4 & 5.



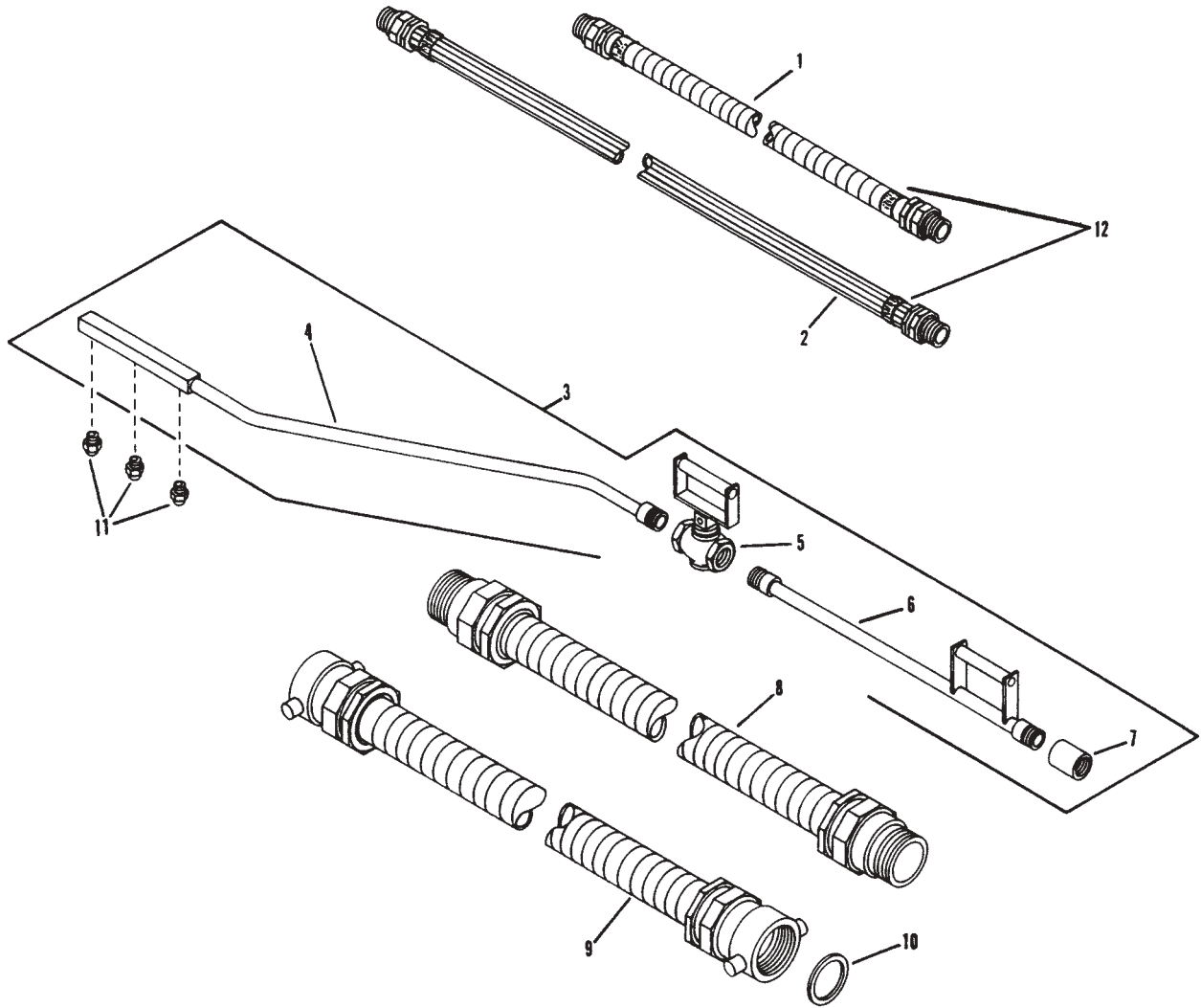
Note: Starting with SN/M4246 and above Ref #s 19, 20 & 21 are used. SN/M4245 and below use Ref #s 1-6.



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2610041	2	Bracket Asm (Includes #s 2,4, & 5)	16	3360543	1	Plate-Fill W/Gasoline Only
2	2610042	2	Angle-Fuel Tank Mounting	17	3360168	1	Plate-Fill W/Kerosene Only
3	2630194	2	Support-Mtg. Brkt. 14" x 22"	18	0219189	1	Plug-Pipe, SqHd, 0.25NPT,PN
	2610048	2	Support Brkt Asm 14" x 42"	19	6600162	1	Drain Cock, 0.25"
4	0122433	4	Screw-Hex, 0.50NC x 1.50, GR2,PD	20	3331867	2	Strap
5	9411727	8	Nut-Hex, Lock, 0.50NC,EA,PD	21	2680337	2	Hanger, 14" Tanks
6	0122408	4	Screw-Hex, 0.50NC x 1.00, GR2,PD	21	0120390	4	Washer-Flat, 0.50A(0.56 x 1.38),PD
7	6600324	AR	Hose-3/8 Per Ft. (Specify Length)				
8	6600305	1	Hose End-06 x 04MP,ST,LPSP				
9	0105413	2	Elbow-Pipe, 90, 0.25NPT,PN				
10	6100235	2	Cap-Filler				
11	6445028	1	Hose End-04 x 04MP,ST,LP				
12	6001005	1	Clamp-Hose, Screw Type, M5				
13	6309248	AR	Hose-Fuel Line, 0.31 ID/Ft.				
14	2630212	1	Tank Asm-Fuel, 2 Compt. 14" x 22"				
15	3360180	1	Plate-Fill W/Diesel Fuel Only				

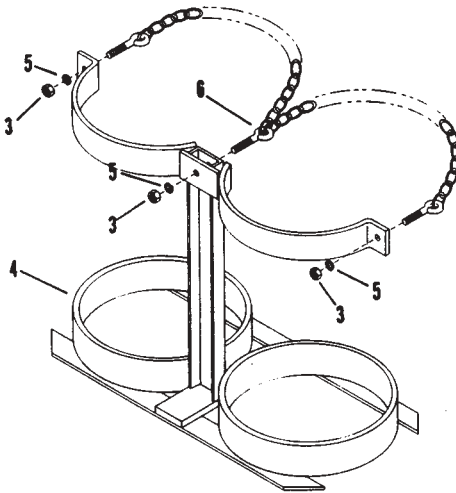
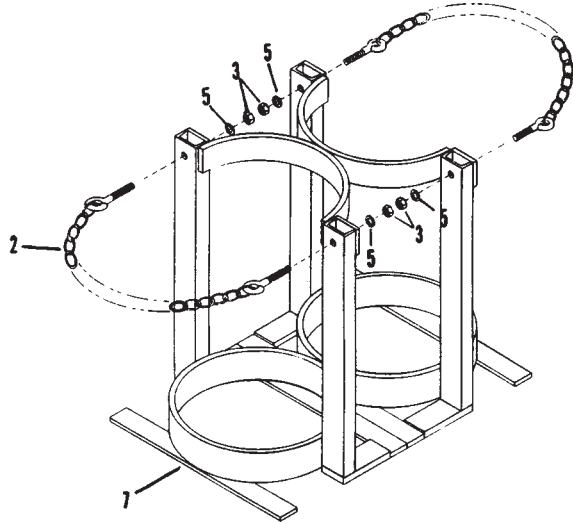
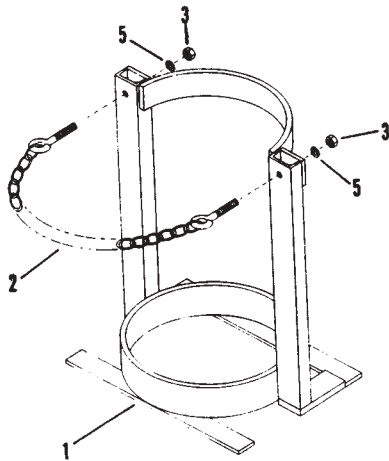
AR - AS REQUIRED

Hoses & Handspray Gun Assembly



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	6600702	1	Hose-1" x 15Ft., Rubber				
2	6600252	1	Hose-1, T & A x 25, w/Male PO Cplg.				
	6600392	1	Hose-1" x 25Ft.				
3	3380017	1	Gun Asm				
4	3380024	1	Tube Asm-Offset				
5	3380392	1	Valve & Handle				
6	3380022	1	Tube Asm				
7	0187399	1	Coupling-Pipe, 1.00NPT,Steel				
8	2680042	1	Hose Asm-Loading, 2" x 25Ft.,MM				
	2680044	1	Hose Asm-Loading, 2" x 15Ft.,MM				
	2680046	1	Hose Asm-Loading, 2" x 15Ft.,MF				
9	2680045	1	Hose Asm-Loading, 2" x 15Ft.,FF				
	2680047	1	Hose Asm-Loading, 2" x 25Ft.,FF				
10	6600288	2	Gasket-2.53 x 1.88 x 0.12,ASB				
11	3352205	3	Nozzle-V Type, Nominal 3.5 GPM				
12	3390591	2	Tag-Caution				

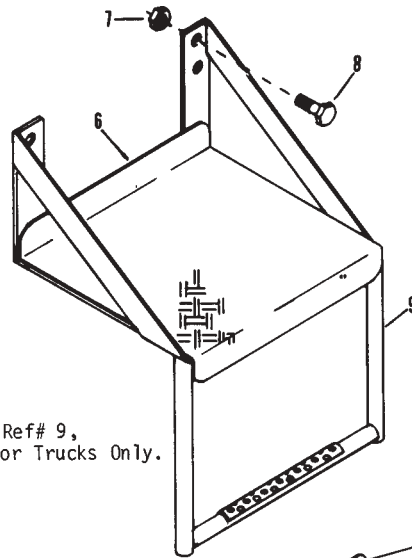
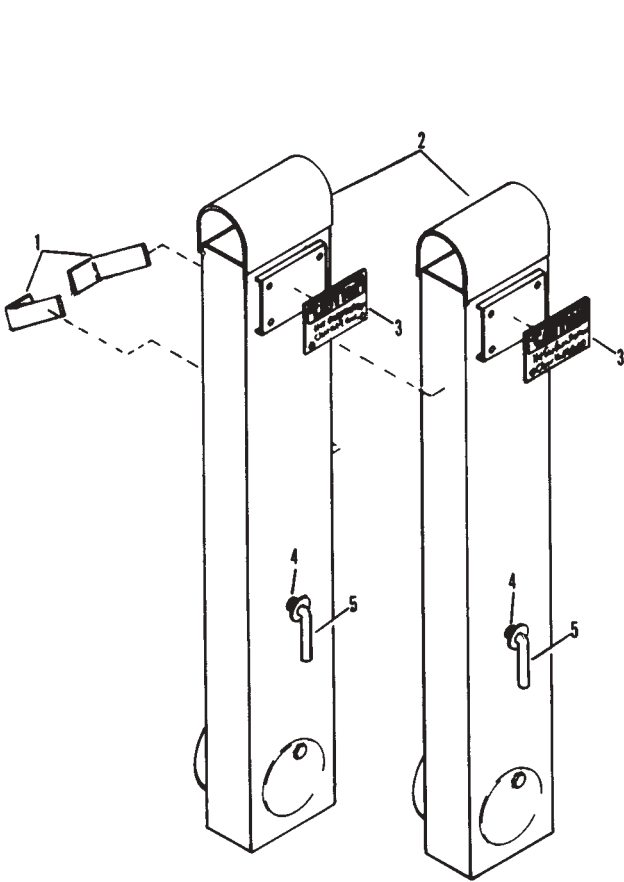
Bottle Rack Assemblies



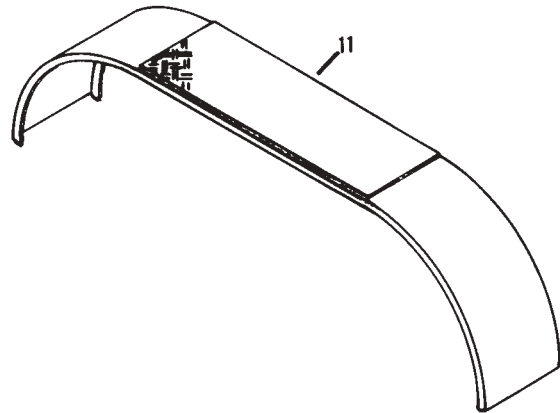
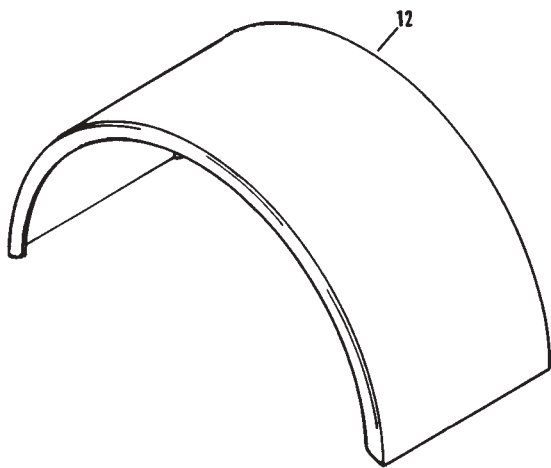
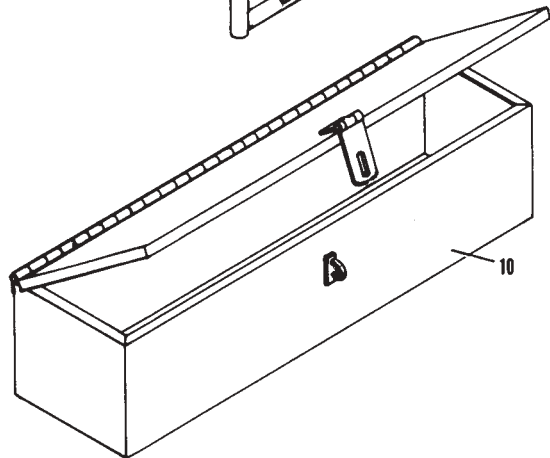
REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2630210	1	Rack Asm-Single Mtg.				
2	2630211	AR	Chain Asm				
3	0271501	AR	Nut-Hex, 0.44NC,PN				
4	3330320	1	Base Asm				
5	0120383	AR	Washer-Lock, 0.44, Spring,PD				
6	3330257	1	Chain & Bolt Asm				
7	2680080	1	Rack Asm-Double Mtg.				

AR - AS REQUIRED

Exhaust Stacks, Platforms, Toolboxes & Fenders Trailer & Truck



Note: Ref# 9,
used for Trucks Only.

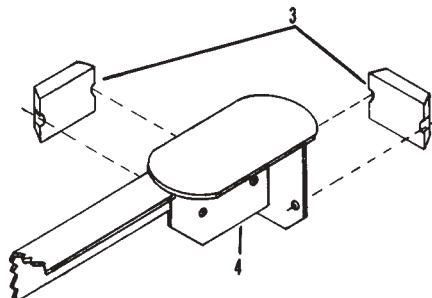
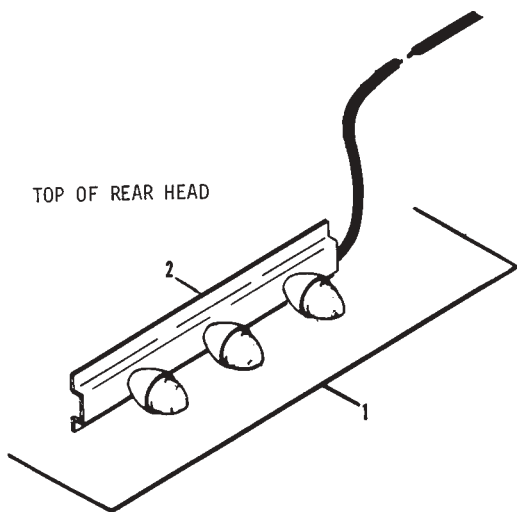


REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	2630116	AR	Bracket-Mounting	10	2610432	1	Tool Box Asm (Trailer)
2	2630390	AR	Stack Asm		2780502	1	Tool Box Asm (Truck)
3	3561030	1	Plate Caution-Hot Surface	11	2610574	2	Fender Asm (Trailer)
4	6000496	1	Spring-Release	12	3380581	2	Fender-Single, Steel (Truck)
5	2630014	1	Damper Control Arm Asm				
6	2610220	1	Platform Asm-Rear				
7	9411727	4	Nut-Hex, Lock, 0.50NC,EA,PD				
8	0122433	4	Screw-Hex, 0.50NC x 1.50,GR2,PD				
9	2610521	1	Step Asm-Platform				

AR - AS REQUIRED

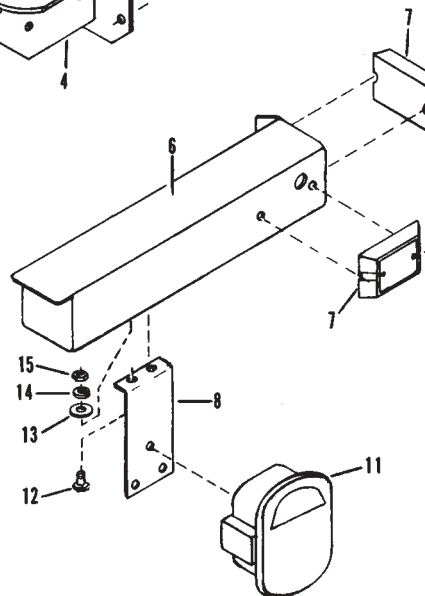
Lights & Bumper Assembly Trailer & Truck

TOP OF REAR HEAD

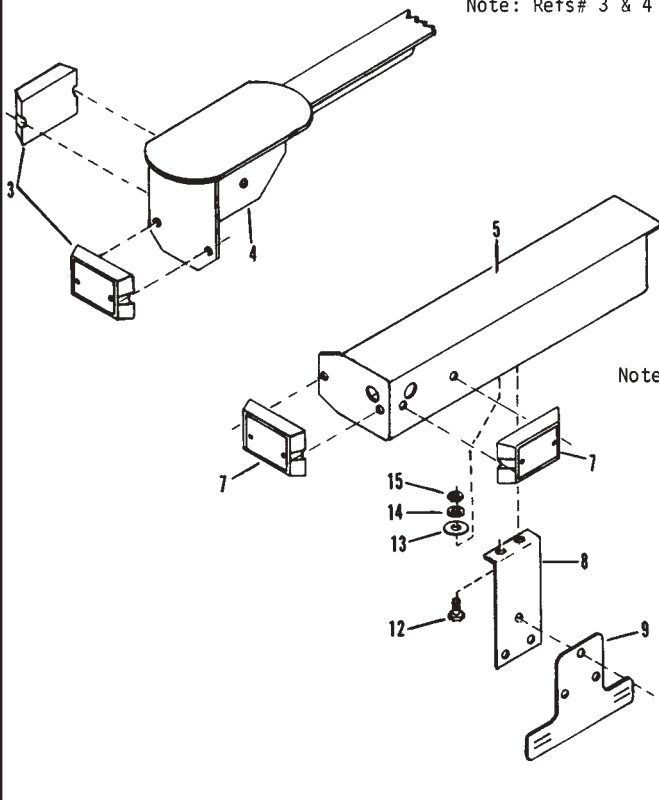


FRONT

Note: Refs# 3 & 4 Not used on Trucks.



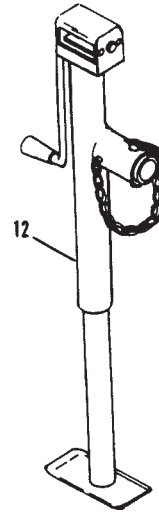
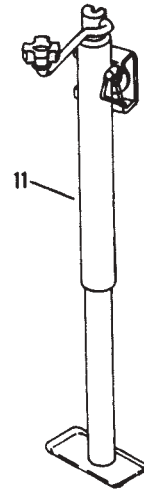
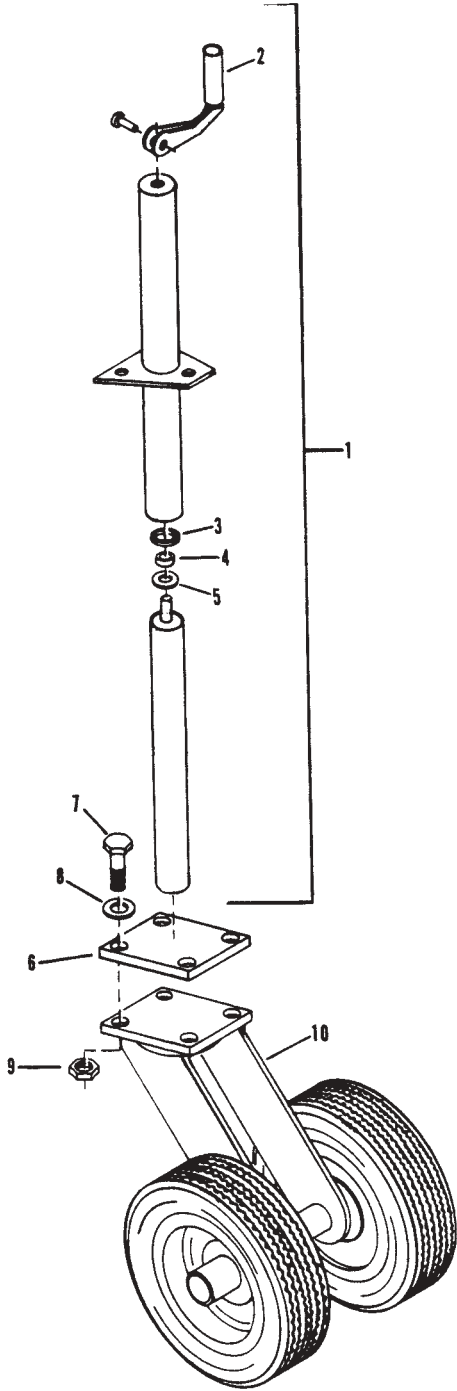
REAR



Note: Starting with M4238, Refs 12,13,14 & 15 have been added.

REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	3370755	1	Marker Light W/12' Pigtail Loom	11	6700866	1	Light-STOP, TURN & TAIL, Rt.
2	6702225	1	Light-Triple Bar	12	0121887	4	Screw-Hex, 0.25NC x 0.75, GR2,PD
3	6700855	4	Light-Clear W/Reflect Red	13	0120386	4	Washer-Flat, 0.25A(0.31 x 0.73)PD
4	2670004	2	Bracket Asm-Front Light Mt.	14	0120380	4	Washer-Lock, 0.25, Spring,PD
5	2610578	1	Bumper Asm-Lt.	15	0120375	4	Nut-Hex, 0.25NC,PD
6	2610579	1	Bumper Asm-Rt.				
7	6700854	4	Light-Clear, W/Reflect Red				
8	3370159	1	Bracket-Light Mtg.				
9	2610576	1	Bracket-License Plate Mtg.				
10	6700865	1	Light-STOP, TURN & TAIL, Lt.				

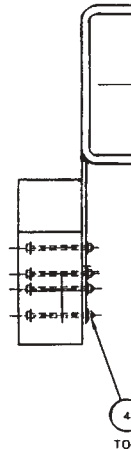
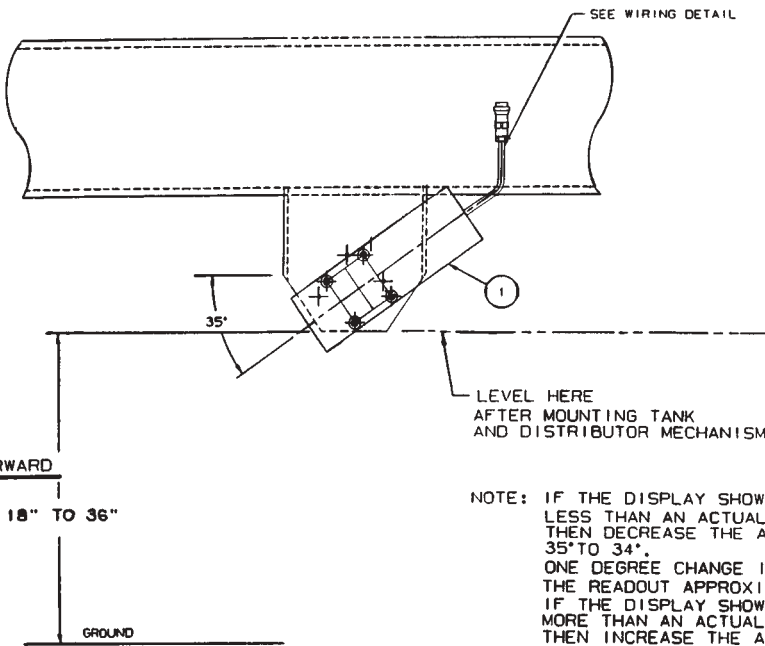
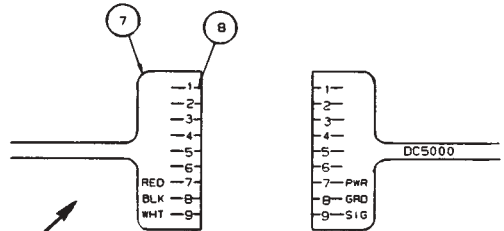
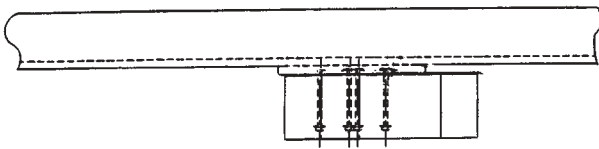
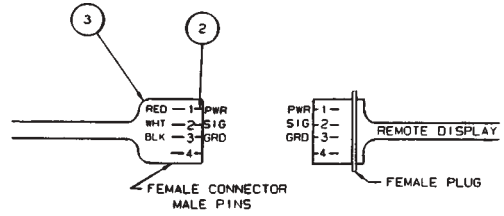
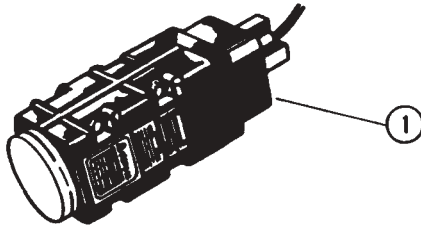
Jacks & Dual Wheel Caster Swivel



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	6450560	1	A Frame Jack	12	6450559	1	Jack-Sidewind, 15"-30"
2	7205021	1	Kit-Handle Replacement				
3	7205022	1	Bearing-Thrust				
4	7205023	1	Sleeve-Felt				
5	7205024	1	Washer				
6	2610540	1	Plate-Mounting				
7	0122433	4	Screw-Hex, 0.50NC x 1.50,GR2,PD				
8	0120390	4	Washer-Flat, 0.50A,PD				
9	9411727	4	Nut-Hex, Lock, 0.50NC,EA,PD				
10	6450564	1	Caster-Dual Wheel				
11	6450509	1	Jack-Screw. Top Wind, 39.75Lg.				

Radar Speed Sensor Installation

S/N M-4256 thru M-4499

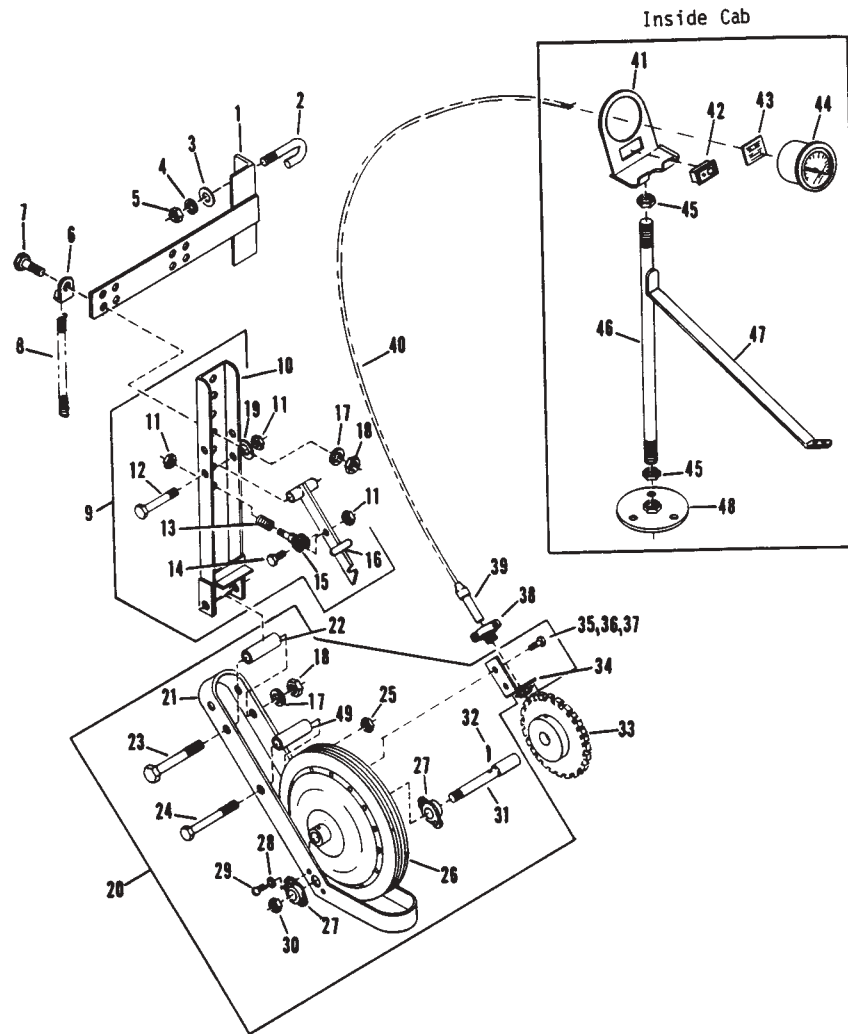


TORQUE TO 30 - 35 LB.-IN.

NOTE: IF THE DISPLAY SHOWS FEET TRAVELED LESS THAN AN ACTUAL MEASURED COURSE THEN DECREASE THE ANGLE, CHANGE FROM 35° TO 34°. ONE DEGREE CHANGE IN ANGLE CHANGES THE READOUT APPROXIMATELY ONE PERCENT. IF THE DISPLAY SHOWS FEET TRAVELED MORE THAN AN ACTUAL MEASURED COURSE THEN INCREASE THE ANGLE, CHANGE FROM 35° TO 36°. ONE DEGREE CHANGE IN ANGLE CHANGES THE READOUT APPROXIMATELY ONE PERCENT.

REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	3370212	1	Radar Head-Speed Sens, W/O Plug				
2	6701947	4	Socket-Pin, 18-16 Ga.				
3	6702043	1	Plug-4 Pin Std				
4	0432903	4	Screw-Hex, 0.25NC x 4.00, GR2,PD				
5	9414920	8	Washer-Flat, 0.25B,PD				
6	0120380	4	Washer-Lock, 0.25 Spring,PD				
7	3370203	Ref	Hood Black 9 Pin Sub D				
8	3370204	Ref	Pin Crimp Snap in D Sub				

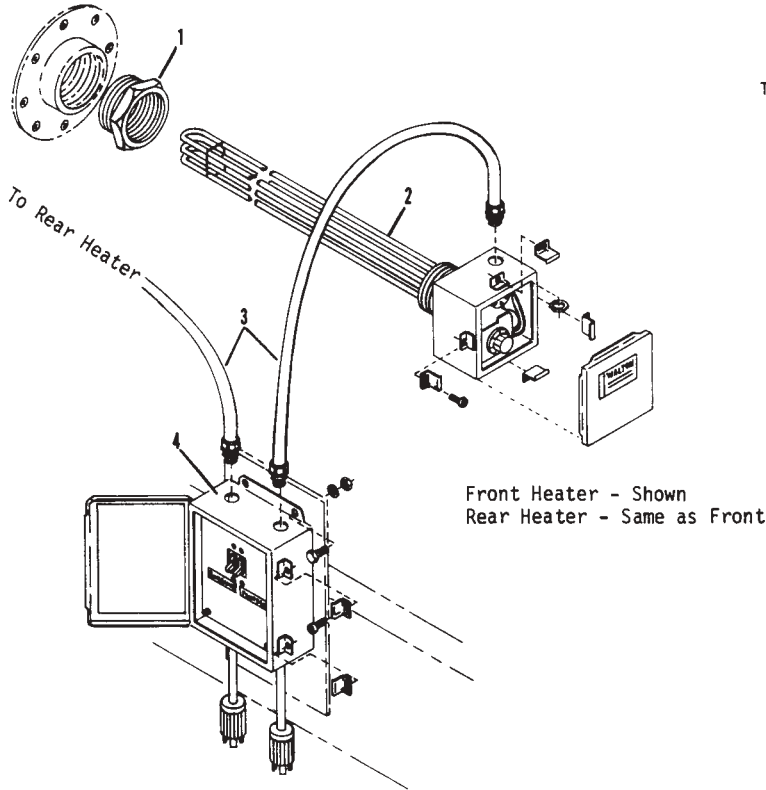
Bitumeter With Magnetic Pick-Up & Electric Analog Gauge S/N M-4255 & Below



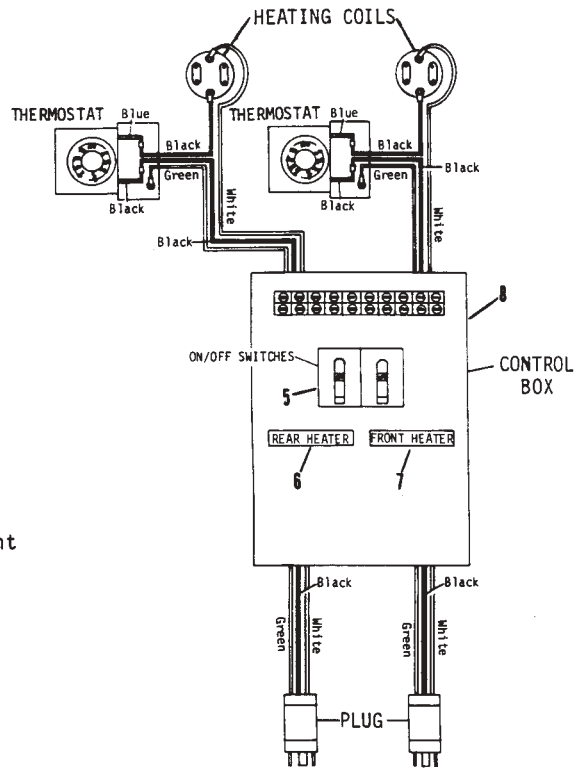
REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	3360363	1	Bracket Asm	28	0121841	4	Washer-Lock, NO.8, Spring, PD
2	3360304	2	Bolt-Hook	29	0436695	4	Screw-Mach, PNSL, 8NC x 0.50, PD
3	0130999	2	Washer-Flat, 0.62A(0.69 x 1.75) PD	30	0274635	1	Nut-Hex, Lock, 0.38NF, EA, GRA, PD
4	0121574	2	Washer-Lock, 0.62, Spring, PD	31	3321334	1	Shaft
5	0124589	2	Nut-Hex, 0.62NC, PD	32	0137204	1	Pin-Cotter, 0.12 x 1.50, PD
6	3360293	1	Brkt-Spring Mtg.	33	3361036	1	Gear-Spur, 90T W/Set Screw
7	0122433	2	Screw-Hex, 0.50NC x 1.50, GR2, PD	34	3361028	1	Brkt-Magnetic Pick-Up
8	3360269	1	Spring	35	0121900	2	Screw-Hex, 0.25NC x 1.00 GR2, PD
9	3360610	1	Latch & Support Asm	36	0120380	2	Washer-Lock, 0.25, Spring, PD
10	3360264	1	Support Asm-Channel	37	0120375	2	Nut-Hex, 0.25NC, PD
11	0274993	3	Nut-Hex, Lock, 0.38NC, EA, PD	38	6701510	1	Connector-Romex, 0.75
12	0125973	1	Screw-Hex, 0.38NC x 3.50, GR2, PD	39	6701838	1	Sensor-Proximity, 12VDC
13	3320296	1	Spring-Compression	40	6701048	AR	Cable-Shielded, 22-3, Stranded
14	0122145	1	Screw-Hex, 0.38NC x 1.25, GR2, PD	41	3321346	1	Bit. Control Brkt Asm
15	3360605	1	Yoke Asm	42	6702140	1	Counter-Dig, Ele. LCD, 6 Digit
16	3360601	1	Latch Asm	43	6702144	1	Circuit Board
17	0120384	3	Washer-Lock, 0.50, Spring, PD	44	6702134	1	Tachometer-Electronic Analog
18	0120378	3	Nut-Hex, 0.50NC, PD	45	0124589	2	Nut-Hex, 0.62NC, PD
19	0436363	1	Washer-Flat, 0.31A(0.38 x 0.88) PD	46	3320314	1	Leg-Tach Stand
20	3361035	1	Wheel & Fork Asm-16	47	3321031	1	Stand Mtg. Short
21	3360283	1	Fork Asm	48	3321032	1	Stand Mtg. Long
22	3360284	1	Spacer	49	3320315	1	Foot Asm, Stand
23	0427585	1	Screw-Hex, 0.50NC x 5.00, GR2, PD				
24	0125968	1	Screw-Hex, 0.31NC x 5.00, GR2, PD				
25	9411638	1	Nut-Hex, Lock, 0.31NC, EA, PD				
26	3360632	1	Tire & Wheel Asm				
27	3360343	2	Bearing Asm-Outer				

AR - AS REQUIRED

Electric Temperature Maintenance Heater



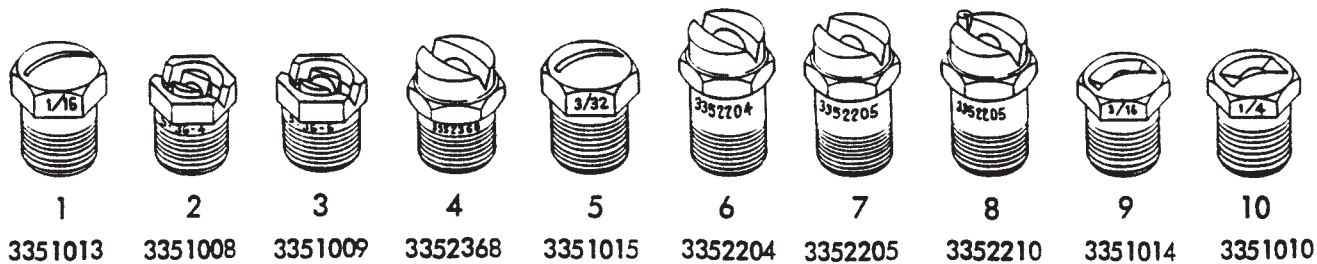
WIRING DIAGRAM



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	6200041	2	Bushing Pipe, 3 x 2.5NPT				
2	M391701	2	Heater-175-550 Deg.				
3	6700710	AR	Conduit-Femt. 0.50 Sealtite EF				
4	6701443	1	Enclosure-Elect, 10 x 8 x 4, Steel				
5	M391704	2	Circuit Breaker, 20 AMP				
6	M39178B	1	Tag-REAR HEATER				
7	M39178A	1	Tag-FRONT HEATER				
8	6700839	1	Strip-Terminal, 10 Bar				

AR - AS REQUIRED

Etnyre Spraybar Nozzles



REF.	PART NUMBER	DESCRIPTION	APPLICATION Per Square Yard	APPLICATION (Metric) Liters Per Square Meter	FLOW Gallon Per Minute Per Foot
1.	3351013**	1/16" Coin Slot	.05 - .20	.23 - .90	3 to 4.5
2.	3351008	S36-4 V Slot	.10 - .35	.45 - 1.6	4 to 7.5
3.	3351009	S36-5 V Slot	.18 - .45	.82 - 2.0	7 to 10
4.	3352368	Multi-Material V Slot	.15 - .40	.68 - 1.8	6 to 9
5.	3351015	3/32" Coin Slot	.15 - .40	.68 - 1.8	6 to 9
6.	3352204 *	Multi-Material V Slot	.35 - .95	1.6 - 4.3	12 to 21
7.	3352205*	Multi-Material V Slot	.20 - .55	.90 - 2.5	7.5 to 12
8.	3352210	End Nozzle (3352205)	.20 - .55	.90 - 2.5	7.5 to 12
9.	3351014	3/16" Coin Slot	.35 - .95	1.6 - 4.3	12 to 21
10.	3351010	1/4" Coin Slot	.40 - 1.10	1.8 - 5.0	15 to 24

- * Recommended nozzles for seal and chip with emulsified asphalts.
- ** For application prior to laying a hot mix mat.

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0105405	53	0120380	49	0125968	63	2610042	56	2640288	45
0105405	53	0120380	51	0125973	63	2610048	56	2640400	45
0105405	54	0120380	60	0128228	32	2610220	59	2640404	35
0105413	53	0120380	62	0128228	33	2610432	59	2640405	35
0105413	56	0120380	63	0128228	47	2610521	59	2640407	35
0105415	53	0120382	33	0130999	63	2610540	61	2640408	35
0105417	53	0120382	37	0137185	47	2610574	59	2640411	33
0105417	54	0120382	41	0137204	27	2610576	60	2640413	32
0105419	52	0120382	43	0137204	63	2610578	60	2640416	32
0105419	53	0120382	47	0139327	41	2610579	60	2640420	32
0105420	55	0120383	39	0143980	53	2610585	30	2640422	32
0105422	54	0120383	41	0144068	55	2610586	30	2640426	33
0105423	52	0120383	58	0145377	47	2610619	26	2640437	47
0105423	53	0120384	43	0145655	37	2620024	35	2640454	32
0106851	47	0120384	63	0156430	41	2620031	35	2640457	47
0108689	33	0120386	41	0180151	35	2620138	35	2640458	47
0111644	53	0120386	60	0184365	48	2620139	35	2640461	33
0112526	38	0120388	33	0184365	49	2620140	35	2640467	43
0112526	40	0120388	35	0184365	51	2620141	35	2640477	33
0112654	41	0120388	42	0187154	43	2620142	35	2640480	47
0114605	39	0120390	35	0187399	43	2620144	39	2640560	43
0114735	39	0120390	56	0187399	57	2620145	39	2640562	33
0115321	37	0120390	61	0187866	43	2620146	39	2640562	47
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0117923	41	0120706	39	0219187	39	2630014	59	2650129	47
0118750	48	0120706	53	0219189	41	2630116	59	2650131	47
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0118750	51	0120755	51	0219189	56	2630147	52	2650133	47
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0118755	51	0120918	41	0219199	41	2630163	53	2650140	47
0118755	54	0121207	53	0219199	45	2630172	37	2650144	45
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0120214	37	0121887	51	0271501	58	2630284	37	2650159	47
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2700233	27	3340028	33	3351059	47	3390407	45	6309071	49
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3300045	51	3350085	45	3360178	47	3561030	25	6445009	37
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3320314	63	3350101	45	3360284	63	6000005	33	6450560	61
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6600305	53	7000228	34	7801126	39	7810065	40		
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6600306	54	7000230	34	7801127	41	7810066	40		
6600324	53	7000231	34	7801128	39	7810067	38		
6600324	54	7000232	34	7801129	39	7810067	40		
6600324	56	7000233	34	7801130	39	7810068	38		
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6600392	57	7000236	34	7801132	39	7810070	38		
6600465	51	7000238	34	7801132	41	7810071	38		
6600642	37	7000245	34	7801133	39	7810071	40		
6600645	48	7000246	34	7801134	39	7810072	38		
6600702	57	7040006	37	7801135	39	7810072	40		
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6600785	48	7205022	61	7801137	39	7810073	40		
6600788	48	7205023	61	7801138	39	7810074	38		
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6601307	53	7620034	30	7801140	41	7810078	38		
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6602039	49	7620041	30	7801147	41	7810084	40		
6602039	51	7620042	30	7801148	41	7810084	41		
6602039	51	7620043	30	7801149	41	7810084	41		
6602049	31	7620044	30	7801150	41	7810085	40		
6602194	39	7620045	30	7801151	41	7810086	40		
6602399	52	7620046	30	7801152	41	7810087	40		
6602399	53	7620047	30	7801153	41	7810089	40		
6700318	51	7620342	30	7801154	41	7810090	40		
6700710	64	7620343	30	7801155	41	7810091	40		
6700839	64	7620344	30	7801156	41	7810092	40		

Serial Number Plate Location

The serial number plate is a brass plate located on the left side of the vehicle frame.

Generally, the serial number has a letter prefix followed by four numbers.

Serial No. is also stamped on top of hitch.

