

**MACHINE CHECKLIST**

THIS BLOCK FOR MSHA USE ONLY	
MA #	15
REV. LEVEL	_____

INSPECTORS NAME AND INITIALS \_\_\_\_\_

DATE \_\_\_\_\_

MAKE AND MODEL NO. \_\_\_\_\_

MACHINE TYPE \_\_\_\_\_

MACHINE SERIAL NUMBER \_\_\_\_\_

MACHINE APPROVAL NUMBER \_\_\_\_\_

“If an MSHA Part 36 approval plate has been affixed to this machine, it must meet the requirements of Part 36 Title 30 Code of Federal Regulations. It is the responsibility of the user to ensure that this machine is maintained in permissible condition in accordance with this checklist.

“ALL INSPECTIONS AND TEST SHALL BE PERFORMED IN FRESH AIR.”

PERMISSIBILITY

1. For a complete permissibility evaluation, this checklist must be used in conjunction with a power system checklist and, if so equipped, an electrical system checklist.
2. The design of the exhaust conditioner limits permissible operation to grades not exceeding 20%.
3. Due to braking capability limitation, this machine shall not be operated on grades greater than 15%.

NOTE: IN NO CASE CAN THE MACHINE BE OPERATED ON GRADES GREATER THAN 15% DUE TO BRAKEING CAPABILITY LIMITATIONS.

- [WEEKLY] 4. The approval plate specifies a ventilation rate of 8700 CFM for metal/non-metal and 5,500 CFM for coal.

APPLICABLE APPROVAL 31-94-0
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 LAST REV. 11-19-97

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3. FUEL SYSTEM

- [WEEKLY] 1. ( ) There are no fuel leaks.
- [WEEKLY] 2. ( ) The fuel tank is vented and vent is free of dirt.
- [WEEKLY] 3. ( ) The fuel filler cap is self-closing and is attached to the tank in a manner which will prevent loss during refueling.

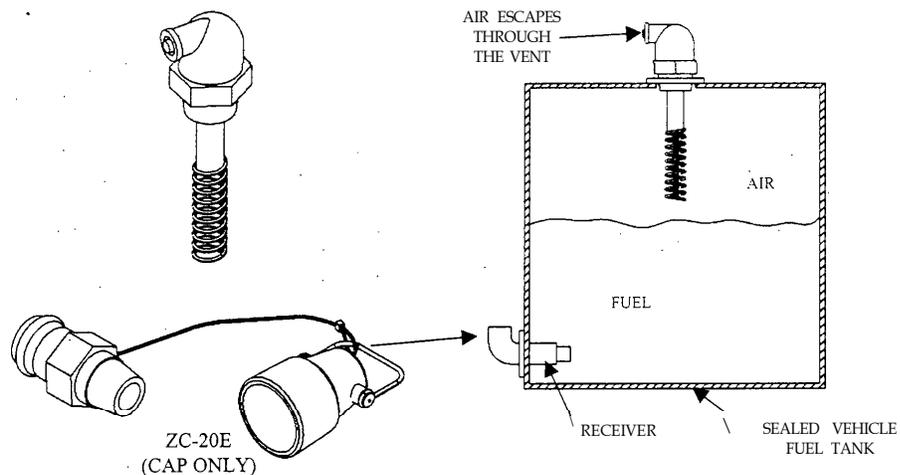


FIGURE 1:

- [WEEKLY] 4. ( ) Auxiliary fuel tank capacity has not been added to the vehicle.
- [WEEKLY] 5. ( ) Fuel filters (2)\* are properly installed and are not damaged.

\* Referenced items shown on Machine Layout Diagram. The following test and inspection procedures shall be conducted on the surface or in mine ventilation intake air only.

(WEEKLY)- DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR, SECTION 75.1914.  
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- [WEEKLY] 6. ( ) The fuel injection rate adjustment mechanism (3)\* and the engine governor setting are locked and sealed. See Figure 2.

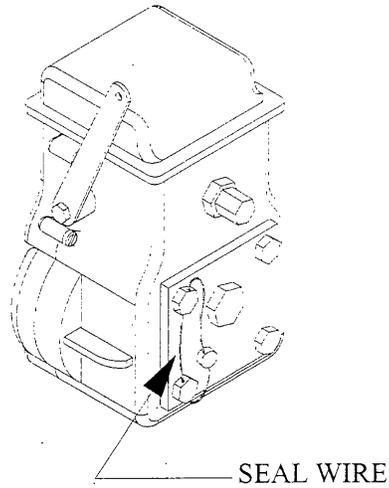


FIGURE 2.

- [WEEKLY] 7. ( ) The fuel shut-off valve (4)” in the fuel supply line is operable.
- [WEEKLY] 8. ( ) The drain plug (5)\* in the fuel tank is locked in position. (Pipe plugs are considered “locked in position” when tight.)
- [WEEKLY] 9. ( ) Fuel lines are not routed near or connected to hot exhaust components and are protected from external damage.
- [WEEKLY] 10. ( ) Fuel lines are secured

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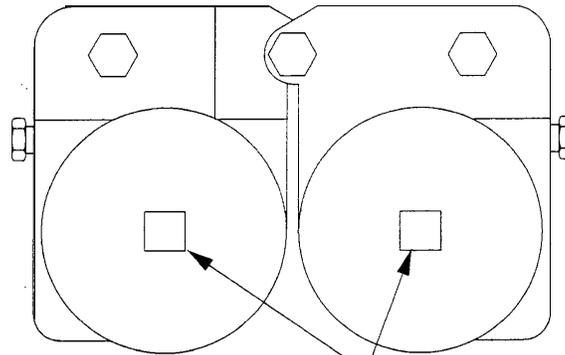
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B. BRAKE SYSTEM

**[WEEKLY] BRAKE INSPECTION PROCEDURE**

**WARNING: BRAKE INSPECTION PROCEDURE TO BE DONE ON LEVEL SURFACE.**

1. Deenergize machine and chock wheels to prevent movement.
2. Disconnect lines on brake caliper. on both sides of machine and plug.
3. Connect hand pump lines provided on chassis side plates to brake calipers. \*6A
4. Pump hand pump, located in tram compartment, until a pressure of 1200 psi is shown on pressure gauge to release brakes.
5. Check the wear of the upper pads by attempting to insert a .100" feeler gauge between the pad and disc simultaneously on each side of the disc. Total clearance is not to exceed .200". Then check pressure gauge on hand pump to insure that pressure has not bled off. (NOTE: PRESSURE OF 1200 PSI MUST BE MAINTAINED FOR ACCURATE READING OF BRAKE PAD WEAR). If feeler gauge tits then adjustment is needed. Repeat for lower pad and repeat for both calipers on other side of machine. If adjustment is not needed, bleed pressure from brakes using the bleed on hand pump. **(WARNING: PRESSURE MUST BE BLED FROM BRAKE BY USING BLEED ON HAND PUMP BEFORE DISCONNECTING HAND PUMP LINES TO PREVENT OIL SPRAYING ON MAINTENANCE PERSONNEL. Now** remove plugs and replace hoses.
- 5A. Check that the brake pads are in good condition (there are no voids or pieces broken out, etc.)
6. ADJUSTMENT: If adjustment is needed turn adjustment plug on each side of caliper until a gap of .025" - .030" is attained between pad and disc.



3/4 x 3/4 SQ. ADJUST PLUG

**[WEEKLY]** 7. ( ) Brakes adjusted properly.

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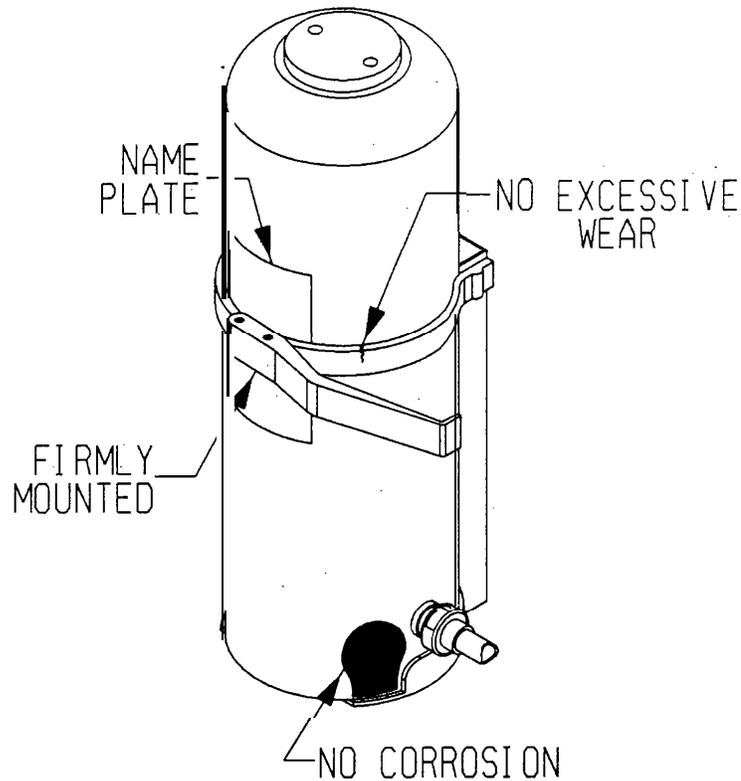
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C. MISCELLANEOUS:

- [WEEKLY] 1. ( ) The machine is equipped with at least one 5 lb. dry chemical fire extinguisher (7)\*. All fire extinguishers are fully charged.

FOR MACHINES EQUIPPED WITH A FIRE SUPPRESSION SYSTEM:

2. ( ) Fire suppression system is charged and in good condition. The fire suppression system is operable as determined by the following checks:
- a. ( ) Note general appearance of system components for mechanical damage or corrosion.
  - b. ( ) Check nameplate(s) for readability.



\* Referenced items shown on Machine Layout Diagram.

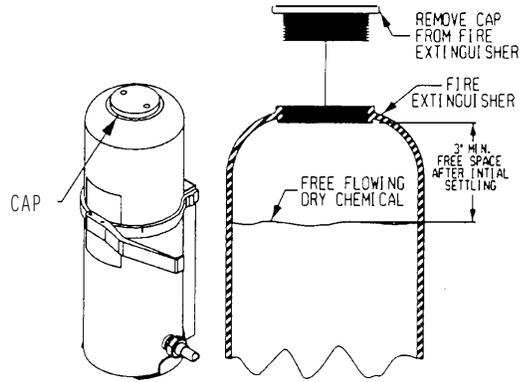
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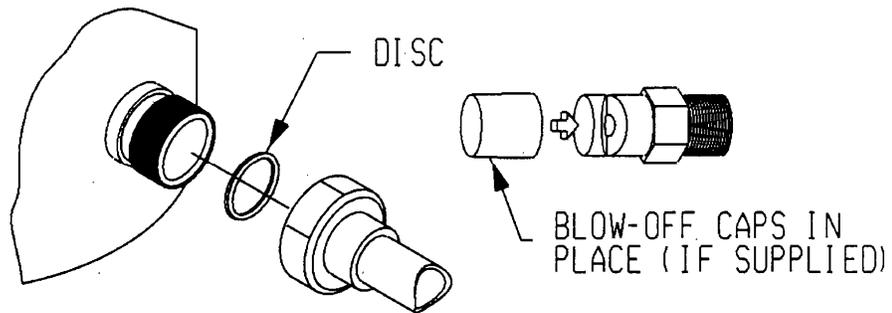
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- c. ( ) Remove fill cap.

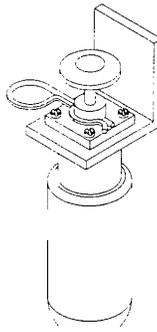


- d. ( ) Make certain tank is filled with free-flowing **dry** chemical to a level of not more than 3 inches from the bottom of the fill opening. If dry chemical level is more than 3 inches, replace cap and heft bottle. (Note: heft means to shake the bottle up and down slightly, this according to the manufacture, will loosen settled dry chemical and make it free flowing.) Remove fill cap and measure level again.

- e. ( ) Secure fill cap; hand tighten.



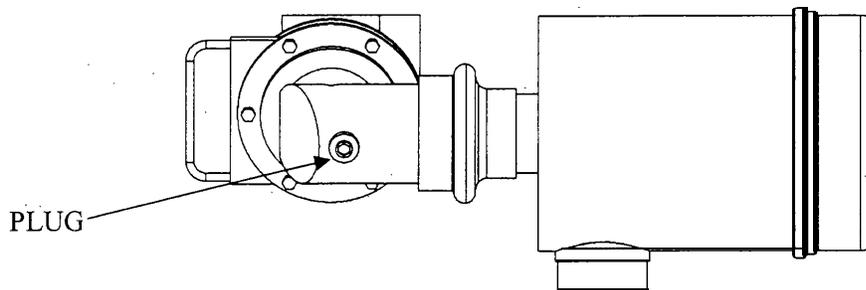
- f. ( ) Remove expellant gas cartridge and examine disc-seal should be unruptured.
- g. ( ) Return cartridge to pneumatic actuator/cartridge receiver, hand tighten and secure in bracket.
- h. ( ) Check hose, fittings and nozzles for mechanical damage and cuts.
- i. ( ) Check nozzle openings - slots on nozzle should be closed (capped) with silicone grease or cover with plastic blow-off caps.



- j . ( ) Remove cartridge from manual actuator(s), and examine disc-seal should be unruptured.
- k . ( ) Return cartridge to manual actuator(s) assembly, hand tighten.
- l . ( ) Replace any broken or missing lead and wire seals.

FOR MACHINES EQUIPPED WITH AIR SYSTEM:

- [WEEKLY] 3. ( ) The main air pressure gauge is operable.
- [WEEKLY] 4. ( ) The machine has an MSHA Part 36 approval plate (8)\* attached to it in the operator's compartment.
- [WEEKLY] 5. ( ) The exhaust diffuser at the scrubber outlet is installed.
- [WEEKLY] 6. ( ) The machine has a completed MSHA part 33 dust approval plate, specifying the dust approval number, attached.
- [WEEKLY] 7. ( ) A plug is installed in the emergency shutdown housing. (see figure below)



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- [WEEKLY] 8. ( ) The two tram levers and two position control levers return to **neutral when released**.
- [WEEKLY] 9 ( ) The warning device (gong) is operable.
- [WEEKLY] 10. ( ) Canopy control levers return to neutral when released.
- [WEEKLY] 11. ( ) The emergency remote engine stops, located at the driller's stations and at the position control station, will shut engine down.

D. TESTING PROCEDURE FOR LOAD LOCKING VALVES

**WARNING: DO NOT ALLOW ANYONE TO PLACE ANY PART OF THEIR BODY UNDER THE BOOM WHEN PERFORMING THE FOLLOWING TESTS.**

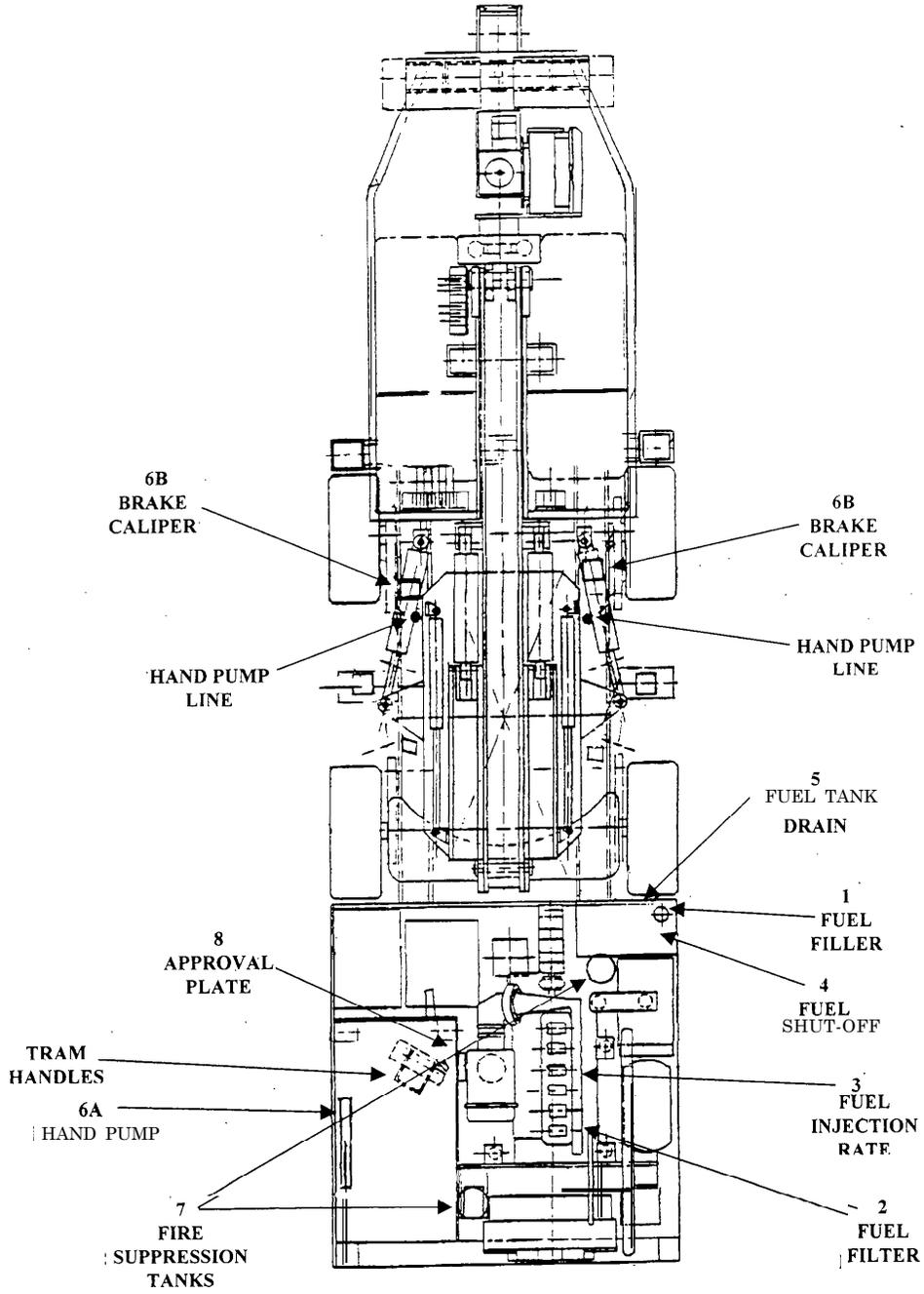
- [WEEKLY] 1. Testing procedure for equipment with manually actuated control valves,
  - 1.1 Instruct all personnel to stay clear of the boom.
  - 1.2 Energize the equipment and raise the boom by operating the appropriate hydraulic control levers.
  - 1.3 Deenergize the machine, then attempt to lower the elevated members by operating the hydraulic control levers that correspond to the boom raise and lower functions.
  - 1.4 If the boom remains elevated while performing step 1.3 then the locking valve is performing adequately.
  - 1.5 If the boom moves downward while performing step 1.3 the locking valve is malfunctioning and should be repaired or replaced.
- [WEEKLY] 2 ( ) Load locking valves functioning properly.

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