JEFFREY	MINING PRODUCTS	274 EAS	Y MINING ST 1ST AVE IBUS, OHIO	Ξ.			THIS CONFIDENT THE EXC JEFFREY NEITHER CONTENTS REPRODUCE WHOLE OR WRITTEN MINING PR	CLUSIV MIN THE ARE D, C PAR CONSE	NFORM E I DRAW DRAW TO R I F, W	PROP ING E	ON A ERTY PROD OR BE LOSEI DUT	ITAINS ND IS OF DUCTS. ITS USED, D IN PRIOR CFFREY
DRAWING NO.			SHEET NO.			ACHINE AP	PROVAL	NUM	BER	S TH	HAT	USE
5384	A690		1		HIS CHEC -111-0	CKLIST:						
DRAWN ROY McKIBBEN	DATE 9/28/87			R E V	A 4/15/88 JVT	B 4/18/97 KRT						
CHECKED ROY McKIBBEN	DATE 9/28/87											

THIS BLOCK FOR MSHA USE	MACHINE CHECKLIST
ONLY.	
	MAKE AND MODEL NO. JEFFREY MODEL 4110
MA#	
	MACHINE TYPE: <u>RAMCAR SLT</u>
REV LEVEL	

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 TESTS SHALL BE PERFORMED IN FRESH AIR

PERMISSIBILTY:

- 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 LIMITATIONS, THIS MACHINE SHALL NOT BE OPERATED ON GRADES GREATER THAN 30%.
 - NOTE: WHEN OPERATED IN AREAS WHICH DO NOT REQUIRE PERMISSIBLE MACHINES, THIS MACHINE CAN BE OPERATED ON GRADES GREATER THAN THE 20% GRADE LIMITATION DUE TO THE DESIGN OF THE EXHAUST CONDITIONER, BUT IN NO CASE CAN THE MACHINE BE OPERATED ON GRADES GREATER THAN 30% DUE TO BRAKING CAPABILITY LIMITATIONS.
- 4. THE APPROVAL PLATE SPECIFIES A VENTILATION RATE OF 8700 CFM FOR GASSY NON-COAL MINES AND 5500 CFM FOR COAL MINES.

TEST SHE MACHINE		ITLE: MISSIBILTY CHI	ECKLIST		MINE SAFETY & HEALTH ADMIN APPROVED PRINT. NO DEVIATION OR LEGAL UNTIL APPROVED BY MSHA		
DISTR. CODE SEE DRG.	STD: B	SPECIAL:	ENG. SEC L.	PRINT LOCATION:	DRAWING NUMBER 538A690	SHEET NO. 1	OF 10 SHEETS

JEFFREY	MINING PRODUCTS	274 EAS	Y MINING ST 1ST AVE IBUS, OHIO	E.			JEFFREY NEITHER CONTENT REPRODU	NTIA EXCLU S CED, OR C	JSIV MII HE ARE C PAR ONSE	NFOF E NING DRA I DR I, NT	WING CO DIS	ION OPER PF G BE CLOS HOUT	ANI TY RODU OR U SED T P	AINS OF CTS. ITS SED, IN PRIOR FREY
DRAWING NO.			SHEET NO.		0 0	ACHINE AP	PROVAL	ľ	NUM	IBE	RS 1	ГНА	ΤU	JSE
538	A690		2		HIS CHEC -111-0	CKLIST:								
DRAWN ROY McKIBBEN	DATE 9/28/87			R E V	A 4/15/88 JVT	B 4/18/97 KRT								
CHECKED ROY McKIBBEN	DATE 9/28/87													

A. <u>FUEL SYSTEM</u>:

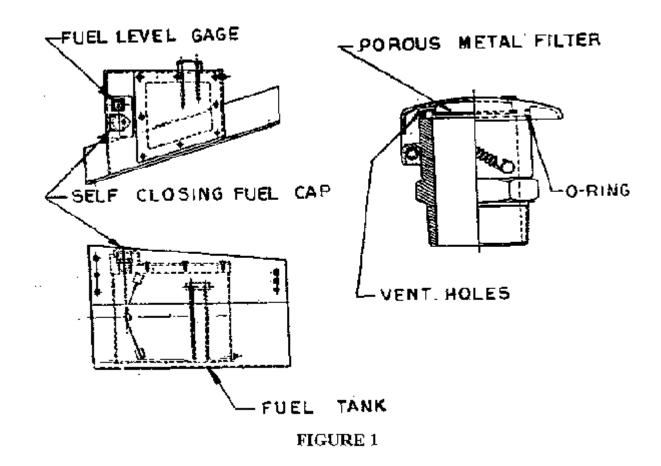
- *1. () THERE ARE NO FUEL LEAKS.
- *2. () THE FUEL FILLER CAP (1)** IS VENTED AND THE VENT IS NOT PLUGGED. SEE FIGURE 1.
- *3. () THE FUEL FILLER CAP IS SELF-CLOSING AND IS ATTACHED TO THE TANK IN A MANNER WHICH WILL PREVENT LOSS DURING REFUELING.
- *4. () AUXILIARY FUEL TANK CAPACITY HAS NOT BEEN ADDED TO THE VEHICLE.
- *5. () THE FUEL FILLER CAP (2)** IS PROPERLY INSTALLED AND IS NOT DAMAGED.
- *6. () THE FUEL INJECTION RATE ADJUSTMENT MECHANISM (3)** AND THE ENGINE GOVERNOR SETTING ARE LOCKED AND SEALED. SEE FIGURE 2.

*(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR, SECTION 75.1914.

**REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM (SHEET 10).

TEST SHE MACHINE		ITLE: MISSIBILTY CHI	ECKLIST		MINE SAFETY & HEALTH ADMI APPROVED PRINT. NO DEVIATION OR LEGAL UNTIL APPROVED BY MSHA		- •
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 10
SEE DRG.	В		L.		538A690	2	SHEETS

JEFFREY	MINING PRODUCTS	274 EAS	Y MINING ST 1ST AVE IBUS, OHIO	E.			JEFFREY NEITHER CONTENT REPRODU	NTIA EXCLU S CED, OR C	USIV MII HE ARE C PAR	NFOR E NING DRA T PR F, NT	PRC WINC O DIS	ION PERT PRO G C BE CLOS HOUT	AND YY ODUC R US ED PR	OF
DRAWING NO.			SHEET NO.			ACHINE AP	PROVAL	Γ	NUM	[BE]	RS 1	THA '	ΓU	SE
538	A690		3		HIS CHEC -111-0	KLIST:								
DRAWN ROY McKIBBEN	DATE 9/28/87			R E V	A 4/15/88 JVT	B 4/18/97 KRT								
CHECKED ROY McKIBBEN	DATE 9/28/87													



TEST SH MACHINE			SSIBILTY CHECKLIST		MINE SAFETY & HEALTH AD APPROVED PRINT. NO DEVIATION LEGAL UNTIL APPROVED BY MSH	OR REVISION	
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 10
SEE DRG.	В		L.		538A690	3	SHEETS

JEFFREY	MINING PRODUCTS	274 EAS	JEFFREY MINING PRODUCTS 274 EAST 1ST AVE. COLUMBUS, OHIO 43201					I S CED OR C	AL JUSI M THE AR PA	VE ININ DF E OR RT, ENT	ORMZ P NG RAWI TO D WI	ROF NG ISC	ON D PERTY PRO OF BE LOSE OUT	AND Z DUC US D PR	INS IS OF TS. ITS ED, IN IOR REY
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538	A690		4		HIS CHEC -111-0	CKLIST:									
DRAWN ROY McKIBBEN	DATE 9/28/87			R E V	A 4/15/88 JVT	B 4/18/97 KRT									
CHECKED ROY McKIBBEN	DATE 9/28/87														

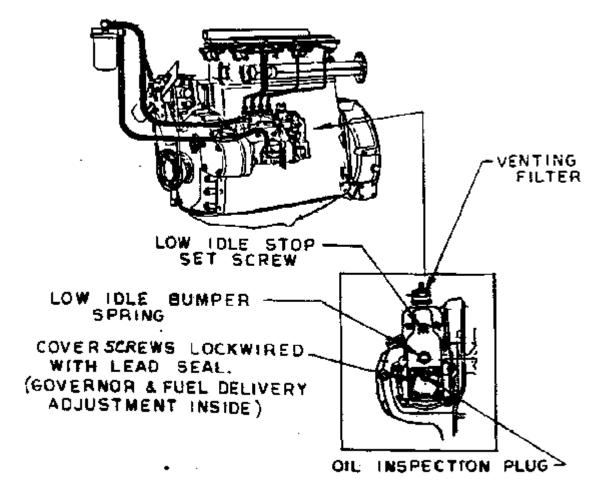


FIGURE 2

*7. () THE FUEL SHUTOFF VALVE (4)** IN THE FUEL SUPPLY LINE IS OPERABLE.

*8.	() THE DRAIN P	LUG (5)** I	N THE FUEL TA	NK IS LOCKED IN POSITION. (PI	PE PLUGS	ARE
TEST SH MACHINI		ITLE: MISSIBILTY CH	ECKLIST		MINE SAFETY & HEALTH ADMI APPROVED PRINT. NO DEVIATION OF LEGAL UNTIL APPROVED BY MSHA		-
DISTR.	STD:	SPECIAL:	ENG. SEC	PRINT	DRAWING NUMBER	SHEET	OF
CODE				LOCATION:		NO.	10
SEE DRG.	В		L.		538A690	4	SHEETS

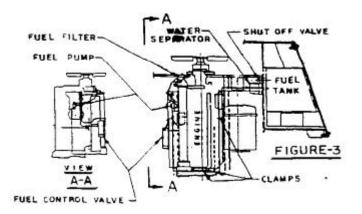
JEFFREY	MINING PRODUCTS	274 EAS	Y MINING ST 1ST AVE IBUS, OHIO	E.			JEFFREY NEITHER CONTENT: REPRODU	T S CED, OR C	USIN MI HE ARE PAR ONSE	INFO VE ININ DR C OR RT, ENT	DRMA PR IG AWIN TO DI WI	OPE NG BI	N A CRTY PROI OR E OSEI UT	UC USI	IS OF IS. ITS ED, IN IOR
DRAWING NO.			SHEET NO.			ACHINE AP	PROVAL	I	NUN	ABI	ERS	TH	[AT	US	E
538	A690		5		HIS CHEC -111-0	CKLIST:									
DRAWN ROY McKIBBEN	DATE 9/28/87			R E V	A 4/15/88 JVT	B 4/18/97 KRT									
CHECKED ROY McKIBBEN	DATE 9/28/87														

CONSIDERED "LOCKED IN POSITION" WHEN TIGHT.)

*9. () FUEL LINES ARE NOT ROUTED NEAR OR CONNECTED TO HOT EXHAUST COMPONENTS AND ARE PROTECTED FROM EXTERNAL DAMAGE.

- *10. () FUEL LINES ARE SECURED, SEE FIGURE 3.
- *11. () THE FUEL FILTER IS PROPERLY INSTALLED AND IS NOT DAMAGED.
- * (WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR, SECTION 75.1914.

** REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM (SHEET 10).



B. BRAKE SYSTEM:

WARNING: BRAKE TESTS ARE TO BE CONDUCTED ON A RELATIVELY LEVEL SURFACE, AWAY FROM

TEST SHI MACHINE		ITLE: MISSIBILTY CHI	ECKLIST		MINE SAFETY & HEALTH ADMI APPROVED PRINT. NO DEVIATION OR LEGAL UNTIL APPROVED BY MSHA		
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 10
SEE DRG.	В		L.		538A690	5	SHEETS

JEFFREY	MINING PRODUCTS	274 EAS	Y MINING ST 1ST AVE IBUS, OHIO	Ξ.			THIS CONFIDEN THE EX JEFFREY NEITHER CONTENTS REPRODUC WHOLE O WRITTEN MINING P	TIAL KCLUS: THE AF ED, PR PZ CON	IVE MININ DF RE OR ART, SENT	ORMAJ PR JG RAWIN TO DIS WIT	TION OPER PF IG BE SCLOS THOUT	ANI TY RODU OR U SED T P	OF
DRAWING NO.	1	SHEET NO. 6	TI	ART 36 M HIS CHEC -111-0	ACHINE AP CKLIST:				ERS	THA	T U	JSE	
DRAWN ROY McKIBBEN	DATE 9/28/87			R E V	A 4/15/88 JVT	B 4/18/97 KRT							
CHECKED ROY McKIBBEN	DATE 9/28/87												

TRAFFIC AREAS WHERE OTHER MACHINES OR PERSONS MAY BE MOVING ABOUT. CONSIDER THE POSSIBLE CONSEQUENCES OF TESTING A MACHINE WITH ASSUMED BRAKING INADEQUACIES, AND SELECT AN AREA WHERE THE TEST MACHINE WOULD NOT CAUSE AN ACCIDENT DUE TO THESE INADEQUACIES.

- *1. () SERVICE BRAKE TEST:
 - A. WITH THE ENGINE OPERATING AND THE MACHINE STATIONARY, APPLY THE SERVICE BRAKE.
 - B. RELEASE ALL OTHER BRAKES.
 - C. PLACE THE TRANSMISSION GEAR SELECTOR IN SECOND GEAR AND THE DIRECTIONAL CONTROL SELECTOR IN FORWARD OR REVERSE.
 - D. DEPRESS THE ACCELERATOR TO FULL THROTTLE, ALLOWING THE ENGINE TO PUT THE TRANSMISSION TORQUE CONVERTER INTO A STALL CONDITION.

IF THE SERVICE BRAKE IS OPERATING SATISFACTORILY, THE UNIT WILL NOT MOVE WHEN THE ABOVE PROCEDURE IS FOLLOWED. IF MOVEMENT IS DETECTED, THE SERVICE BRAKE MUST BE REPAIRED OF ADJUSTED.

*(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR, SECTION 75.1914.

- *2. () PARKING BRAKE TEST
 - A. WITH THE ENGINE OPERATING AND THE MACHINE STATIONARY, APPLY THE PARKING BRAKE (6)**.

B. RELEASE ALL OTHER BRAI	KES.
---------------------------	------

TEST SHE MACHINE		ITLE: MISSIBILTY CHI	ECKLIST		MINE SAFETY & HEALTH ADMIN APPROVED PRINT. NO DEVIATION OR LEGAL UNTIL APPROVED BY MSHA		
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 10
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JEFFREY	MINING PRODUCTS	274 EAS	Y MINING ST 1ST AVE IBUS, OHIC	E.			JEFFREY NEITHER CONTENTS REPRODUC	NTIAI XCLU TH S Z CED, OR CC	ISIVE MIN IE ARE OF PART	IFORI ING DRAV TC R IT	PROP VING	ON D PERTY PRO OF BE LOSE OUT	DUC L USI	IS OF TS. ITS ED, IN IOR
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DRAWN ROY McKIBBEN	DATE 9/28/87			R E V	A 4/15/88 JVT	B 4/18/97 KRT								
CHECKED ROY McKIBBEN	DATE 9/28/87													

- C. PLACE THE TRANSMISSION GEAR SELECTOR IN SECOND GEAR AND THE DIRECTIONAL CONTROL SELECTOR IN FORWARD OR REVERSE.
- D. ACTUATE THE DECLUTCH BYPASS VALVE LOCATED ON THE LEFT SIDE WALL OF THE OPERATOR'S COMPARTMENT AND HOLD DURING TEST.
 - WARNING:RELEASING THE DECLUTCH BYPASS VALVE DURING TEST WILL
CAUSE THE MACHINE TO LURCH IN FORWARD OR REVERSE
DIRECTION AS SELECTED. NOTE: IF THE DECLUTCH BYPASS
VALVE IS RELEASED DURING TEST, THE TEST PROCEDURE MUST
BE STARTED AGAIN BEGINNING WITH A.
- E. SHIFT PARK BRAKE LEVER FROM "ON" POSITION TO "AUTO" POSITION.
- F. DEPRESS THE ACCELERATOR TO FULL THROTTLE, ALLOWING THE ENGINE TO PUT THE TRANSMISSION TORQUE CONVERTER INTO A STALL CONDITION.
- G. AFTER TEST, RETURN ENGINE TO LOW IDLE, RELEASE DECLUTCH BYPASS VALVE AND RETURN PARK BRAKE LEVER TO "ON" POSITION.

IF THE PARKING BRAKE IS OPERATING SATISFACTORILY, THE UNIT WILL NOT MOVE WHEN THE ABOVE PROCEDURE IS FOLLOWED. IF MOVEMENT IS DETECTED, THE PARKING BRAKE MUST BE REPAIRED OR ADJUSTED.

*(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR, SECTION 75.1914.

**REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM (SHEET 10).

C. <u>MISCELLANEOUS</u>:

1. () THE FIRE SUPPRESSION SYSTEM IS OPERABLE AS DETERMINED BY THE FOLLOWING CHECKS.

TEST SH MACHINE		ITLE: MISSIBILTY CH	ECKLIST		MINE SAFETY & HEALTH ADMI APPROVED PRINT. NO DEVIATION OF LEGAL UNTIL APPROVED BY MSHA		- •
DISTR.	STD:	SPECIAL:	ENG. SEC	PRINT	DRAWING NUMBER	SHEET	OF
CODE				LOCATION:		NO.	10
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					3304030		
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JEFFREY	MINING PRODUCTS	274 EAS	Y MINING ST 1ST AVE IBUS, OHIO	Ξ.			THIS CONFIDENT THE EXC JEFFREY NEITHER CONTENTS REPRODUCE WHOLE OR WRITTEN MINING PR	IAL CLUSI MJ THE ARE D, CONSI	DRA DRA OR RT, ENT	PRO ; wing :0	ION A PERTY PROI OR BE CLOSE IOUT	ITAINS ND IS OUCTS ITS USED D II PRIOI EFFRET	S F S N R
DRAWING NO.	A690		SHEET NO. 8	TI	ART 36 M HIS CHEC -111-0	ACHINE AP CKLIST:	PROVAL	NUN	MBE	RS T	HAT	USE	
DRAWN ROY McKIBBEN	DATE 9/28/87			R E V	A 4/15/88 JVT	B 4/18/97 KRT							
CHECKED ROY McKIBBEN	DATE 9/28/87												

- A. NOTE GENERAL APPEARANCE OF SYSTEM COMPONENTS FOR MECHANICAL DAMAGE OR CORROSION.
- B. CHECK NAMEPLATE(S) FOR READABILITY.
- C. REMOVE FILL CAP FROM DRY CHEMICAL TANKS (7)**.
- 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.
- 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 SLOT ON NOZZLE SHOULD BE CLOSED (CAPPED) WITH SILICONE GREASE OR COVERED WITH PLASTIC BLOW-OFF CAP.

**REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM (SHEET 10).

C. <u>MISCELLANEOUS</u>: (cont.)

- J. REMOVE CARTRIDGE FROM MANUAL ACTUATOR(S), AND EXAMINE DISC SEAL SHOULD BE UNRUPTURED.
- K. RETURN CARTRIDGE TO MANUAL ACTUATOR(S) ASSEMBLY, HAND TIGHTEN.

TEST SHE MACHINE		ITLE: MISSIBILTY CHI	ECKLIST		MINE SAFETY & HEALTH ADMI APPROVED PRINT. NO DEVIATION OR LEGAL UNTIL APPROVED BY MSHA		-
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JEFFREY	MINING PRODUCTS	274 EAS	Y MINING ST 1ST AVE IBUS, OHIC	Ξ.			JEFFREY NEITHER CONTENTS REPRODUC	XCL T S CED OR C	AL USI ME THE ARI PAI	VE ININ DF C OR RT, ENT	ORMA PI IG RAWII TO DI WI	ROPI NG B	ON A ERTY PROI OR E LOSE UT	UC' USI D	IS OF IS. ITS ED, IN IOR
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DRAWN ROY McKIBBEN	DATE 9/28/87			R E V	A 4/15/88 JVT	B 4/18/97 KRT									
CHECKED ROY McKIBBEN	DATE 9/28/87														

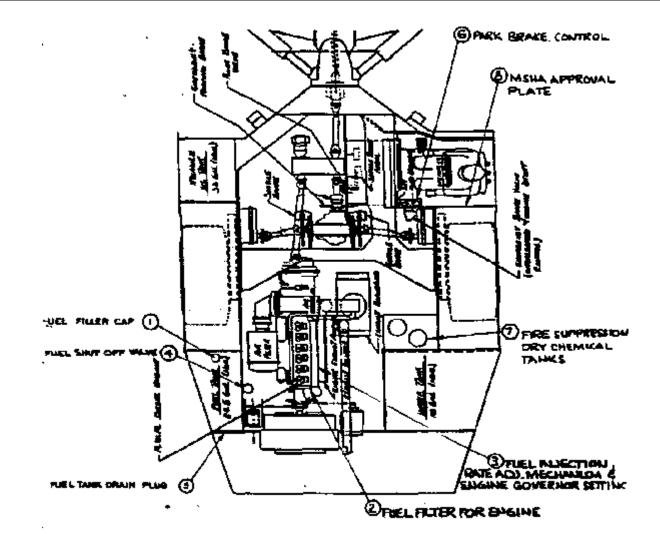
- L. REPLACE ANY BROKEN OR MISSING LEAD AND WIRE SEALS.
- *M. CHECK TO ENSURE THE MACHINE IS EQUIPPED WITH A 4A10BCNFPA FIRE EXTINGUISHER. CHECK FIRE EXTINGUISHER PRESSURE INDICATOR TO SEE THAT IT IS FULLY CHARGED.
- *2. () THE MAIN AIR PRESSURE GAUGE IN THE OPERATOR'S COMPARTMENT IS OPERABLE.
- *3. () THE MACHINE HAS AN MSHA PART 36 APPROVAL PLATE (8)* ATTACHED TO IT IN THE OPERATOR'S COMPARTMENT.
- *4. () THE ENGINE WILL NOT TURN OVER UNLESS THE DIRECTIONAL CONTROL SELECTOR IS IN THE NEUTRAL POSITION.
- *5. () THE EXHAUST DIFFUSER AT THE SCRUBBER OUTLET IS INSTALLED.
- *6. () ALL FLUID STORAGE TANKS ARE CHECKED AND THERE ARE NO LEAKS.
- *7. () CHECK TRAILER FUEL SHUTOFF EMERGENCY STOP SWITCH TO SEE THAT IT SHUTS OFF ENGINE

*(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR, SECTION 75.1914.

**REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM (SHEET 10).

TEST SHE MACHINE		ITLE: MISSIBILTY CH	ECKLIST		MINE SAFETY & HEALTH ADMI APPROVED PRINT. NO DEVIATION OR LEGAL UNTIL APPROVED BY MSHA		- •
DISTR.	STD:	SPECIAL:	ENG. SEC	PRINT	DRAWING NUMBER	SHEET	OF
CODE				LOCATION:		NO.	10
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JEFFREY	MINING PRODUCTS	274 EAS	Y MINING ST 1ST AVE IBUS, OHIC	Ξ.			JEFFREY NEITHER CONTENT REPRODU	NTIA XCLU T: S CED, OR C(USIV MII HE ARE C PAR	NFOF E NING DRA T DR F, NT	WINC O DIS	ION PERT PRO G O BE CLOS HOUT	DDUC R US ED	IS OF TS. ITS SED, IN CIOR
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DRAWN ROY McKIBBEN	DATE 9/28/87			R E V	A 4/15/88 JVT	B 4/18/97 KRT								
CHECKED ROY McKIBBEN	DATE 9/28/87													



TEST SHE MACHINE		ITLE: MISSIBILTY CH	ECKLIST		MINE SAFETY & HEALTH ADMI APPROVED PRINT. NO DEVIATION OF LEGAL UNTIL APPROVED BY MSHA		- •
DISTR. CODE SEE DRG.	STD: B	SPECIAL:	ENG. SEC L.	PRINT LOCATION:	DRAWING NUMBER 538A690	SHEET NO. 10	OF 10 SHEETS