



Technical Manual

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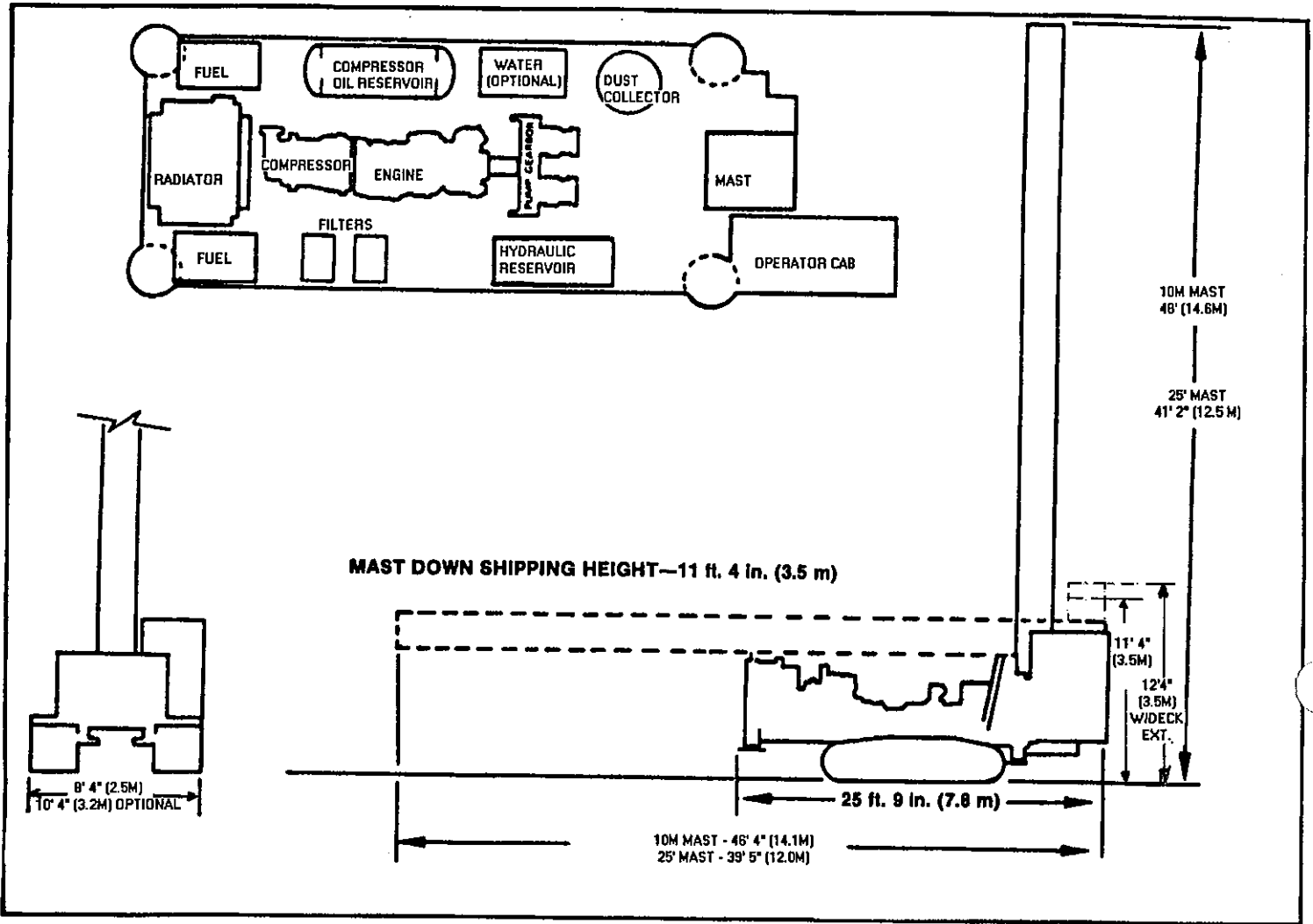
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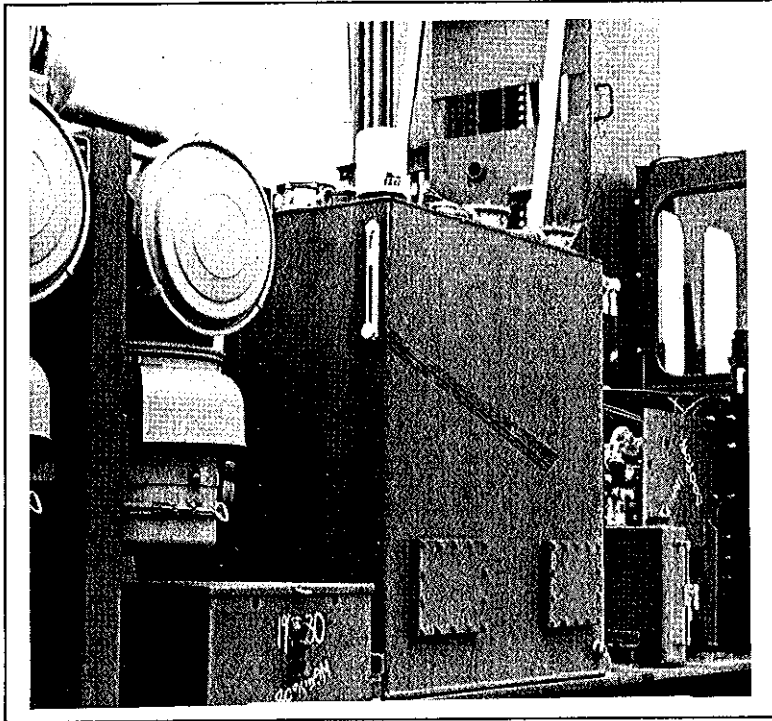
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SPECIFICATIONS AND FEATURES



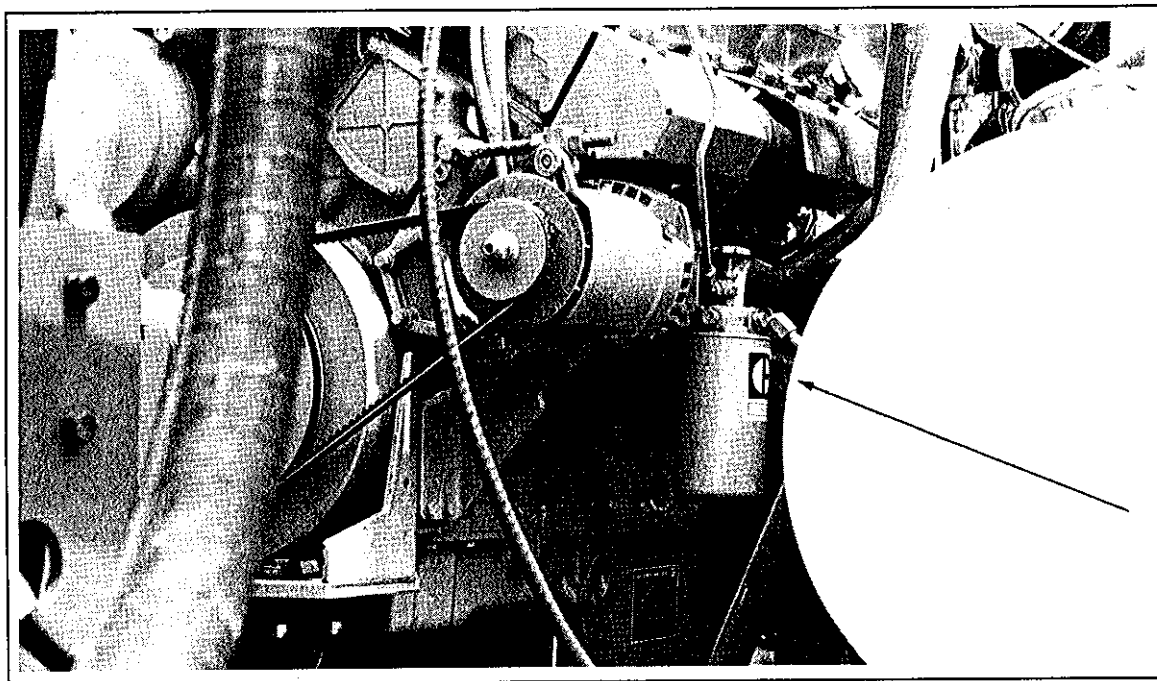
- 5 1/8" (130 MM) TO 7" (178 MM) HOLE SIZE
- Drills to 32' 10" (10 m) loadable hole.
- One-man operation.
- Center-mounted components for stability . . . maintenance accessibility.
- Towing disconnect.
- Spring-set brakes on propel and pulldown systems.
- Hydraulic mastlock with control in operator's cab.
- Bit Loading to 35,000 pounds (15,890kg)

EXTERNAL CONTROLS



HYDRAULIC RESERVOIR LEVEL & TEMPERATURE GAUGE


Indicates the amount and temperature of hydraulic reservoir oil.



MANUAL FUEL PUMP AND FUEL FILTER


Hand-operated fuel pump and system fuel filter.

LOWER MAST




WARNING


DO NOT RAISE MAST UNDER OR CLOSE TO POWER LINES




15




AUX HYD



ROTARY




MAIN AIR




COMP LOW OIL PRESS

OFF ON



MASTER SWITCH

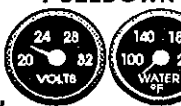
GLOW OFF START




IGNITION SWITCH

ON ON LOW ON ON HI PRESS

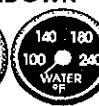
AUX LIGHTS DRILL LIGHTS HIGH HEATER FAN OFF DUST COLL. ON FUEL SOL BYPASS LO PRESS AIR COMP. HI COMP AIR TEMP



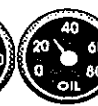
PULLDOWN




24 28 32



140 180 240




40 60 80



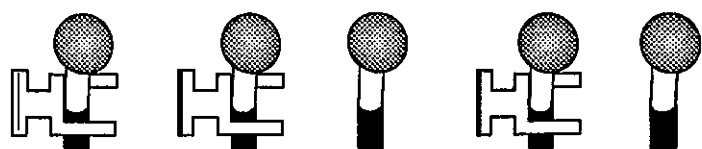
140 190 230 280

COMP AIR TEMP

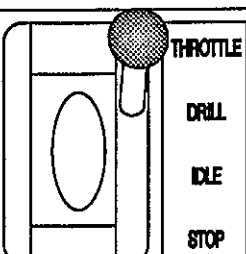
MAST LOWER RAISE	MAST LATCH RELEASE ENGAGE	CENTER GUIDE OUT IN		
			OR	
			PIPE POSITIONER OUT IN	



LEFT REAR JACK RETRACT EXTEND	FRONT JACKS OUT IN	RIGHT REAR JACK RETRACT EXTEND	BLOWER OFF ON	WING UP DOWN
			OR	
			WATER INJECTION OFF BLOWER	



DECK WRENCH RELEASE ENGAGE	BREAKOUT OUT IN	BREAKOUT RELEASE ENGAGE	PIPE RACK OUT IN	PIPE RACK ROTATION CLOCKWISE COUNTERCLOCKWISE
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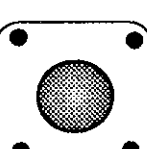


THROTTLE

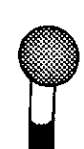
DRILL

IDLE


STOP




PULLDOWN ADJUST INCR




TRAM NEUTRAL (ALL DRILLS)




OFF BIT AIR ON




FWD LEFT TRACK REV



CCW ROTATION CW




UP PULLDOWN DOWN




FWD RIGHT TRACK REV

CAUTION

CONSULT OPERATOR'S MANUAL BEFORE OPERATING ANY FUNCTION OF THIS MACHINE




MAST BASE LOCK




PIPE RACK LOCK

LUBE FLOW ADJUST (OLDER MODELS)




OR




BIT AIR PRESSURE GAUGE

LUBE ON OFF


HOLDBACK PRESSURE

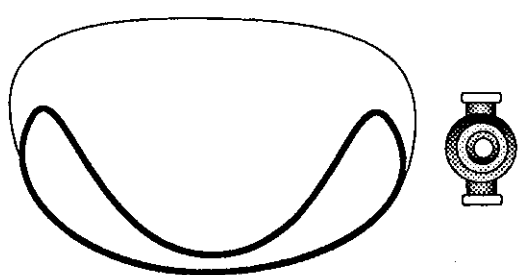


HOLDBACK ADJUST



HOLDBACK ON OFF





BREAKOUT BIT FROM HAMMERDRILL



WARNING
DO NOT RAISE MAST UNDER
OR CLOSE TO POWER LINES

AUX HYD **ROTARY** **MAIN AIR**

COMP LOW OIL PRESS **PULLDOWN** COMP AIR TEMP

MASTER SWITCH GLOW OFF START

IGNITION SWITCH

AUX LIGHTS DRILL LIGHTS HIGH HEATER FAN OFF DUST COLL. ON FUEL SOL BYPASS LO PRESS AIR COMP. HI COMP AIR TEMP

MAST LOWER RAISE **MAST LATCH RELEASE ENGAGE** **CENTER GUIDE OUT IN**

OR

PIPE POSITIONER OUT IN

LEFT REAR JACK RETRACT EXTEND **FRONT JACKS OUT IN** **RIGHT REAR JACK RETRACT EXTEND** **BLOWER OFF ON** **WINCH UP DOWN**

OR

WATER INJECTION OFF BLOWER

DECK WRENCH RELEASE ENGAGE **BREAKOUT OUT IN** **BREAKOUT RELEASE ENGAGE** **PIPE RACK OUT IN** **PIPE RACK ROTATION COUNTERCLOCKWISE**

THROTTLE

DRILL

IDLE

STOP

PULLDOWN ADJUST INCR

TRAM NEUTRAL (ALL BRAKES SET) DRILL

OFF BIT AIR ON

FWD LEFT TRACK REV **CCW ROTATION CW**

UP PULLDOWN DOWN **FWD RIGHT TRACK REV**

CAUTION
CONSULT OPERATOR'S MANUAL
BEFORE OPERATING ANY
FUNCTION OF THIS MACHINE

MAST BASE LOCK **PIPE RACK LOCK**

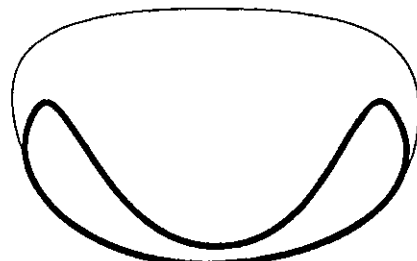
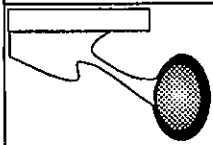
LUBE FLOW ADJUST (OLDER MODELS)

OR

BIT AIR PRESSURE GAUGE

LUBE ON OFF

HOLDBACK PRESSURE **HOLDBACK ADJUST** **HOLDBACK ON OFF**



RETRACT DRILL BIT



WARNING
DO NOT RAISE MAST UNDER
OR CLOSE TO POWER LINES

AUX HYD **ROTARY** **MAIN AIR**

COMP LOW OIL PRESS OFF ON

MASTER SWITCH GLOW OFF START

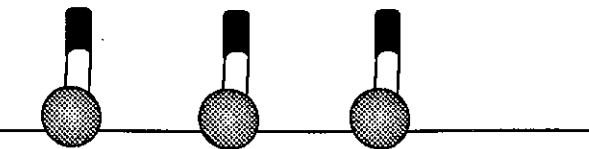
PULLDOWN

24 28 VOLTS 140 180 WATER °F 40 60 OIL

IGNITION SWITCH

ON ON LOW ON ON HI PRESS ON OFF ON LO PRESS AIR COMP. HI COMP AIR TEMP

AUX LIGHTS DRILL LIGHTS HIGH HEATER FAN OFF DUST COLL. ON FUEL SOL BYPASS ON OFF



MAST LOWER RAISE **MAST LATCH RELEASE ENGAGE** **CENTER GUIDE OUT IN**

OR

PIPE POSITIONER OUT IN



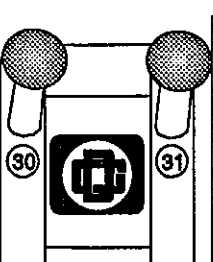
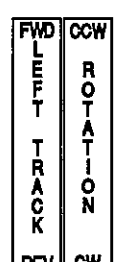
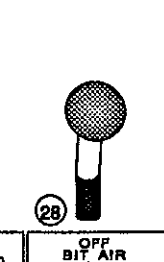
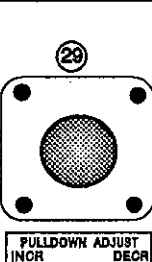
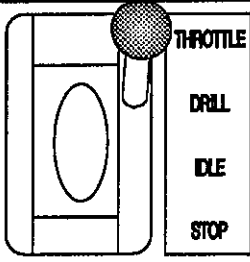
LEFT REAR JACK RETRACT EXTEND **FRONT JACKS OUT IN** **RIGHT REAR JACK RETRACT EXTEND** **BLOWER OFF ON** **WINCH UP DOWN**

OR

WATER INJECTION OFF BLOWER



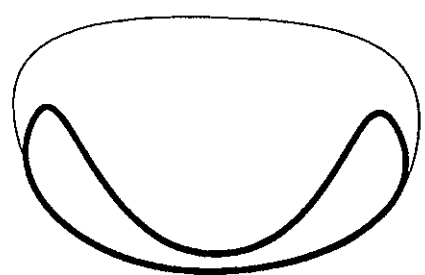
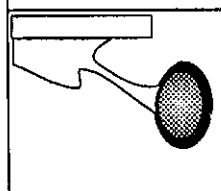
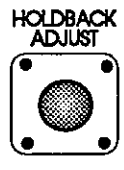
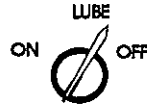
DECK WRENCH RELEASE ENGAGE **BREAKOUT OUT IN** **BREAKOUT RELEASE ENGAGE** **PIPE RACK OUT IN** **PIPE RACK ROTATION CLOCKWISE COUNTERCLOCKWISE**



CAUTION
CONSULT OPERATOR'S MANUAL
BEFORE OPERATING ANY
FUNCTION OF THIS MACHINE



LUBE FLOW ADJUST (OLDER MODELS)



UNLOAD PIPE FROM PIPE RACK INTO HOLE (OPTIONAL)

RPM

WARNING

DO NOT RAISE MAST UNDER OR CLOSE TO POWER LINES

AUX HYD

ROTARY

MAIN AIR

COMP LOW OIL PRESS
OFF ON

2000 3000 4000 5000

140 180 220 260
COMP AIR TEMP

GLOW OFF START
MASTER SWITCH

24 28 32 VOLTS
140 180 240 WATER
20 40 60 80 OIL
PULLDOWN

ON ON LOW ON ON HI PRESS
AUX LIGHTS DRILL LIGHTS HIGH HEATER FAN OFF DUST COLL. ON FUEL SOL BYPASS LO PRESS AIR COMP. HI COMP AIR TEMP
IGNITION SWITCH

MAST LOWER RAISE

MAST LATCH RELEASE ENGAGE

CENTER GUIDE OUT IN
OR
PIPE POSITIONER OUT IN

LEFT REAR JACK RETRACT EXTEND

FRONT JACKS OUT IN

RIGHT REAR JACK RETRACT EXTEND

BLOWER OFF ON
OR
WATER INJECTION OFF BLOWER

WINCH UP DOWN

DECK WRENCH RELEASE ENGAGE

BREAKOUT OUT IN

BREAKOUT RELEASE ENGAGE

PIPE RACK OUT IN

PIPE RACK ROTATION COUNTERCLOCKWISE

THROTTLE
DRILL
DLE
STOP

PULLDOWN ADJUST INCR
29
THAM NEUTRAL (ALL TRACKS SET) DRILL
OFF BIT AIR ON

FWD LEFT TRACK REV
CCW ROTATION CW
UP PULLDOWN DOWN
FWD RIGHT TRACK REV

CAUTION

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MAST BARE LOCK

PIPE RACK LOCK

LUBE FLOW ADJUST (OLDER MODELS)

OR
BIT AIR PRESSURE GAUGE

LUBE

ON OFF

HOLDBACK PRESSURE

HOLDBACK ADJUST

HOLDBACK ON OFF

UNLOAD PIPE FROM CAROUSEL INTO HOLE (OPTIONAL)



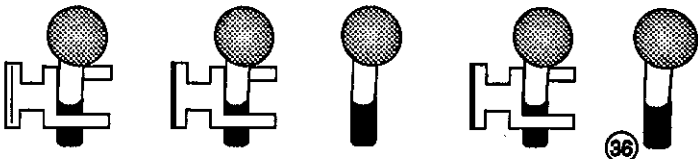
WARNING
DO NOT RAISE MAST UNDER
OR CLOSE TO POWER LINES



MAST LOWER RAISE
MAST LATCH RELEASE ENGAGE
CENTER GUIDE OUT IN
OR
PIPE POSITIONER OUT IN (35)



LEFT REAR JACK RETRACT EXTEND
FRONT JACKS OUT IN
RIGHT REAR JACK RETRACT EXTEND
BLOWER OFF ON
WINCH UP DOWN
OR
WATER INJECTION OFF BLOWER



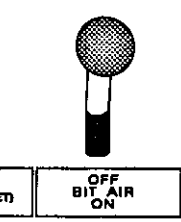
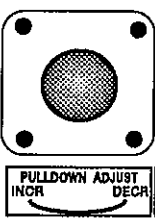
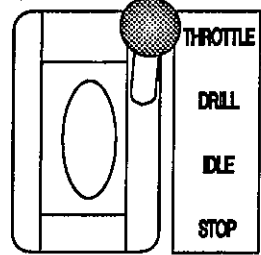
DECK WRENCH RELEASE ENGAGE
BREAKOUT OUT IN
BREAKOUT RELEASE ENGAGE
PIPE RACK OUT IN
PIPE RACK ROTATION CLOCKWISE COUNTERCLOCKWISE (36)

AUX HYD **ROTARY** **MAIN AIR**

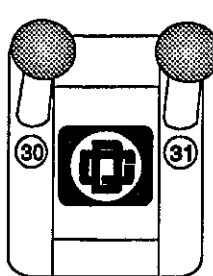
COMP LOW OIL PRESS OFF ON
MASTER SWITCH OFF START
IGNITION SWITCH ON ON LOW OFF ON ON HI PRESS ON ON
AUX LIGHTS DRILL LIGHTS HIGH HEATER FAN OFF DUST COLL. ON FUEL SOL. BYPASS LO PRESS AIR COMP. HI COMP AIR TEMP

PULLDOWN

24 28 52 VOLTS
140 180 240 WATER
40 60 80 OIL
199 146 230 280 COMP AIR TEMP

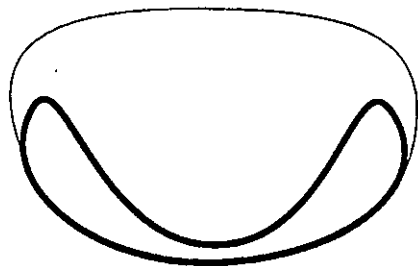
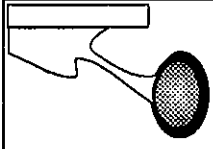
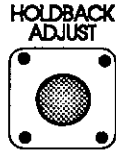
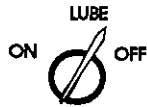
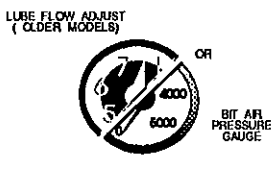
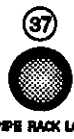
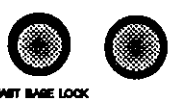


FWD CCW
LEFT ROTATION
TRACK REV CW



UP FWD
PULLDOWN RIGHT
DOWN TRACK REV

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