

Photo Album for Pierce Job 38183-02  
Tucson Fire Department, AZ  
Custom Enforcer Pumper

Wk 12 Production ending July 5, 2024

- The pumper continues assembly at the 41 plant.





















Instrument cluster featuring the following gauges:

- Water Temperature:** Scale 140-260 F, needle at ~170 F.
- RPM:** Scale 0-25 X100, needle at ~10.
- MPH:** Scale 0-85, needle at ~10.
- Fuel:** Scale E-F, needle at ~3/4.
- Oil Pressure:** Scale 0-100 PSI, needle at ~20.
- Volts:** Scale 10-16, needle at ~12.
- DEF:** Scale 1/4-3/4, needle at ~1/2.
- Front Air Pressure:** Scale 0-150 PSI, needle at ~100.
- Rear Air Pressure:** Scale 0-150 PSI, needle at ~100.
- Engine Temp:** Scale 160-300 F, needle at ~200.

MADE WITH PRIDE IN AMERICA BY PEOPLE WHO CARE

START

IGNITION

E-M  
OFF  
PANEL  
PANEL

ON  
HI IDLE  
OK-HI IDLE



This panel is located above the main control console. It features a small rectangular screen at the top. Below the screen are several control buttons: a red emergency stop button labeled 'SIREN BRAKE', a 'DEFROST DISABLE' button, and a 'LOAD MANAGER' button. A row of smaller buttons includes 'POWER', 'CH-', 'MENU', and 'SEL'.

This panel contains a row of five black toggle switches. From left to right, they are labeled: 'ENG BRK ON/OFF', 'ENG BRK HI/MED/LO', 'SIREN HORN', 'PERIMETER LIGHTS', and 'MIRROR HEAT'.

This panel houses the Allison transmission shifter, which has buttons for 'R', 'N', 'D', 'MODE', and directional arrows. A yellow safety tag is attached to the shifter, with text that reads: 'PULL TO RELEASE SYSTEM PARK RELEASE'. To the right of the shifter is a yellow label that says 'PUMP IN DRIVE'.

This panel is on the right side of the dashboard. It features a digital display showing '88' and a 'Pierce' logo. Below the display are three rotary knobs for climate control: fan speed, temperature (with blue and red indicators), and defrost. A 'WARNING' label is visible in the background on the right.



POWER



CH-

MENU

SEL



SIREN  
BRAKE



DEFROST  
DISABLE



LOAD  
MANAGER



ENG BRK  
ON/OFF



ENG BRK  
HI/MED/LO



SIREN  
HORN



PERIMETER  
LIGHTS



MIRROR  
HEAT





Pierce

AUTO

8.8



38183-2

EMERGENCY  
MASTER

ROOF  
LIGHT

FRONT  
WARNING

SIDE  
WARNING

LOWER  
REAR  
WARNING

UPPER  
REAR  
WARNING

HIGH  
BEAM  
FLASH

OPTICOM

FRONT  
FLOOD

DRIVING  
SIDE

REAR  
SIDE

REAR  
STOP

00  
00





**EMERGENCY  
MASTER**

**ROOF  
LIGHT**

**FRONT  
WARNING**

**SIDE  
WARNING**

**LOWER  
REAR  
WARNING**

**UPPER  
REAR  
WARNING**



HIGH  
BEAM  
FLASH

OPTICOM

FRONT  
FLOOD

DRIVERS  
SCENE

PASS  
SCENE

REAR  
SCENE



AIR  
HORN

CYCLE

MANUAL  
OFF  
WAIL  
TONE 1  
TONE 2

VOLUME

BRAKE

RADIO

 FEDERAL SIGNAL





Pierce

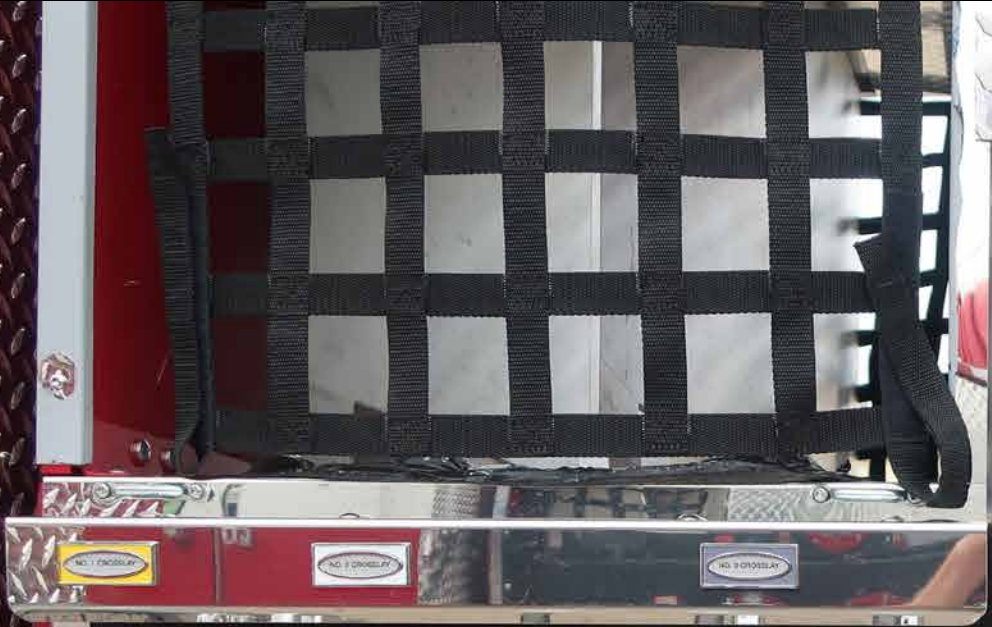




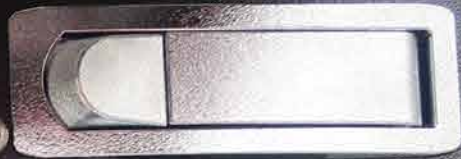








*Panel*



PANEL LIGHTS



**PUMPBOSS**

CHECK ENGINE STOP ENGINE

RPM

MENU SILENCE

THROTTLE READY

PRESSURE RPM PRESET

IDLE

OK TO PUMP

DRIVER SIDE SCENE LIGHTS

PASSENGER SIDE SCENE LIGHTS

REAR SCENE LIGHTS

REEL REWIND

AIR HORN





TANK FILL & RE-CIRCULATING LINE

WHEEL DISCHARGE

DELUGE DISCHARGE

FRONT DISCHARGE

PASSENGER REAR DISCHARGE



ENGINE COOLER



PRIMER FIRE PUMP

TRIDENT AIR PRIME

PUSH TO PRIME

NO. 2 DRIVER SIDE DISCHARGE

NO. 4 PASSENGER SIDE DISCHARGE

TANK TO PUMP

PRIMING INSTRUCTIONS

FOR DISCHARGE PRIMING PERFORMANCE, RUN ENGINE AT 1500 RPM WITH A PRIMER.

NO. 2 DRIVER SIDE DISCHARGE

NO. 1 CROSSLAY

NO. 2 CROSSLAY

NO. 3 CROSSLAY

**INTAKE RELIEF VALVE**

- PULL KNOB OUT TO ADJUST.
- TURN TO CHANGE SET PRESSURE.
- PUSH KNOB IN TO LOCK.

**TRIDENT**



NO. 1 CROSSLAY

NO. 2 CROSSLAY

NO. 3 CROSSLAY

REEL DISCHARGE

DELUGE DISCHARGE

PASSENGER MAIN INLET

OPEN CLOSER

**WATERHOUS**



NO. 1 DRIVER SIDE DISCHARGE

NO. 3 PASSENGER SIDE DISCHARGE

NO. 2 DRIVER SIDE DISCHARGE

NO. 4 PASSENGER SIDE DISCHARGE

NO. 1 DRIVER SIDE DISCHARGE

NO. 1 DRIVER SIDE DISCHARGE

NO. 2 DRIVER SIDE DISCHARGE



Panel  
R/O



**WATEROUS**

PUMP MODEL: C81	SERIAL NO: 18201
FRAM MODEL: 032D	SERIAL NO: 18201
DATE: MAR 2014	RATIO: 2.25
CAPACITY: 1200 GPM	AT 100 DISCH PSI
HYDR: 600 PSI	MAX DISCH: 400 PSI

**WATEROUS OPERATION MAINTENANCE SCHEDULE**

Check oil level every 100 hours or 1000 miles. If low, add oil to the correct level. Do not overfill. Check water level every 100 hours or 1000 miles. If low, add water to the correct level. Do not overfill. Check air filter every 100 hours or 1000 miles. If dirty, clean or replace. Check pump and hose every 100 hours or 1000 miles. If damaged, repair or replace. Check all connections every 100 hours or 1000 miles. If loose, tighten. Check all hoses every 100 hours or 1000 miles. If cracked or worn, replace. Check all electrical connections every 100 hours or 1000 miles. If loose, tighten. Check all safety devices every 100 hours or 1000 miles. If damaged, repair or replace.



FOAM 1



CAUTION





FRAMING INSTRUCTIONS  
SEE TECHNICAL MANUAL  
PERFORMANCE TO BE ENHANCED BY USE  
OF THE ABOVE INSTRUCTIONS



Panel  
R/O







# WATEROUS

PUMP MODEL: CSU      SERIAL NO: 182321  
TRANS MODEL: C22D    SERIAL NO: 182321  
DATE: MAR-2024        RATIO: 2.03  
CAPACITY: 1250 GPM    AT 150 DISCH PSIG  
HYDRO: 600 PSIG        MAX DISCH: 400 PSIG

02906

## MINIMUM OPERATION MAINTENANCE SCHEDULE\*

**CHECK OPERATION WEEKLY:**  
Relief valve or pressure controller  
Transfer valve  
Priming system  
Packing gland Leakage  
\*Normal: 10-120 drops per minute  
Mechanical Seals Leakage - 0

**EVERY 6 MONTHS OR 100 OPERATING HOURS:**  
Gear Case - change lubricant (Use SAE 90 gear lube)  
Chain Case - change lubricant (Use automatic transmission fluid, ATF)  
Grease outboard bearing - Use BRB grease (Ball and roller bearing)

\*Consult Pump Manual for complete information



0222119

## PUMP DRAIN

PULL TO OPEN

DO NOT OPEN OR CLOSE  
UNDER PRESSURE

## CAUTION

PLACE CAB SHIFT IN NEUTRAL  
PUSH FOR ROAD  
PULL FOR PUMP

MANUAL  
PUMP SHIFT

PULL TO OPEN

NO. 1 CROSSLAY

PULL TO OPEN

NO. 1 DRIVER  
SIDE DISCHARGE

PULL TO OPEN

NO. 2 DRIVER  
SIDE DISCHARGE

PULL TO OPEN

PASSENGER MAIN INLET













6 FT

10 FT

EL 10







PASSENGER REAR  
DISCHARGE











**⚠ DANGER**  
All safety devices must be in proper working order before raising the cab.  
Do not touch the controls when the cab is raised.  
Do not touch the controls when the cab is lowered.  
Do not touch the controls when the cab is in the process of raising or lowering.

**⚠ DANGER**  
CHECK ALL CAB STEPS ARE FOLDED UP BEFORE RAISING CAB

**POWERED EQUIPMENT RACK**  
CAB LIFT

NO. 3 CROSSLAY

NO. 2 CROSSLAY

NO. 1 CROSSLAY

**DANGER**  
EQUIPMENT RACK

KEEP CLEAR OF RACK AREA  
EQUIPMENT RACK IS LOCKED IN  
RAISED POSITION OR IN  
LOWERED POSITION AND  
MASTER SWITCH OFF.

RACK MOVEMENT MAY  
CAUSE INJURY OR DEATH.

OFF ON

MASTER

UP

NET

**CAUTION**

CHECK OVERHEAD AREA, BUMPER  
COMPONENTS, MIRRORS, AND SIGHT HOOD  
FOR CLEARANCE BEFORE RAISING CAB.

**DANGER**

CAB STAY ARM MUST BE IN THE SUPPORT  
POSITION BEFORE MOVING UPPER OR  
WORKING ON THE CAB IN THE TILT POSITION.  
NEVER WORK ON THE CAB WITHOUT STAY  
ARM IN THE SUPPORT POSITION.  
FAILURE TO FOLLOW PROPER PROCEDURES CAN  
RESULT IN INJURY OR DEATH.

**CAB LIFT OPERATING INSTRUCTIONS**

**TO RAISE CAB:**

1. Prepare cab to lift:  
Park on level surface.  
Turn engine OFF.  
Set parking brake.  
Secure loose items in cab.  
No obstructions in lift path.  
Fold up steps on rear wall.
2. Turn battery switch to ON.
3. Turn ignition switch to ON.
4. Move control switch to RAISE.
5. Press ACTIVATE switch until  
cable fully lifts.
6. Set safety Stay-Arms into  
pockets.
7. Move control switch to LOWER.
8. Press ACTIVATE switch until  
cable is resting on Stay-Arms.

**TO LOWER CAB:**

1. Prepare cab to lower:  
Check that no persons or  
obstructions are in lift path.  
Fold up steps on rear wall.
2. Parking brake must be set.
3. Turn battery switch to ON.
4. Turn ignition switch to ON.
5. Move control switch to RAISE.
6. Press ACTIVATE switch until  
cable is off safety Stay-Arms.
7. Slow and secure Stay-Arms.
8. Move control switch to LOWER.
9. Press ACTIVATE switch until  
cable fully lowers and for 5  
seconds after cab comes to  
rest.
10. Make sure cable is locked.



**⚠ DANGER**  
MOVING EQUIPMENT RACK

BEFORE OPERATING THIS EQUIPMENT, THE RACK MUST BE LOCKED IN THE FULLY LOWERED POSITION AND WITH ALL STEPS FOLDED UP. FAILURE TO DO SO MAY CAUSE INJURY OR DEATH.

3. OPERATOR MUST WEAR SEATBELT AND SAFETY BELT AT ALL TIMES.

4. OPERATOR MUST WEAR SEATBELT AND SAFETY BELT AT ALL TIMES.

5. OPERATOR MUST WEAR SEATBELT AND SAFETY BELT AT ALL TIMES.

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8. OPERATOR MUST WEAR SEATBELT AND SAFETY BELT AT ALL TIMES.

9. OPERATOR MUST WEAR SEATBELT AND SAFETY BELT AT ALL TIMES.

10. OPERATOR MUST WEAR SEATBELT AND SAFETY BELT AT ALL TIMES.

**POWERED EQUIPMENT RACK**



**⚠ CAUTION**

**⚠ DANGER**

**CHECK ALL CAB STEPS ARE FOLDED UP BEFORE RAISING CAB**

**RAISE**

**LOWER**

**ACTIVATE**

**2044952-0001 CAB LIFT**

**CAB LIFT OPERATING INSTRUCTIONS**

**TO RAISE CAB:**

1. Prepare to raise.
2. Push up on the master control.
3. Watch for the cab to rise.
4. When the cab is fully raised, the cab will stop.
5. When the cab is fully raised, the cab will stop.
6. When the cab is fully raised, the cab will stop.
7. When the cab is fully raised, the cab will stop.
8. When the cab is fully raised, the cab will stop.
9. When the cab is fully raised, the cab will stop.
10. When the cab is fully raised, the cab will stop.

**TO LOWER CAB:**

1. Prepare to lower.
2. Push down on the master control.
3. Watch for the cab to lower.
4. When the cab is fully lowered, the cab will stop.
5. When the cab is fully lowered, the cab will stop.
6. When the cab is fully lowered, the cab will stop.
7. When the cab is fully lowered, the cab will stop.
8. When the cab is fully lowered, the cab will stop.
9. When the cab is fully lowered, the cab will stop.
10. When the cab is fully lowered, the cab will stop.





**⚠ DANGER**  
**MOVING EQUIPMENT RACK**

STAY CLEAR OF RACK AREA UNLESS RACK IS LOCKED IN RAISED POSITION OR IN FULLY-LOWERED POSITION AND WITH MASTER SWITCH OFF.

SUDDEN RACK MOVEMENT MAY CAUSE INJURY OR DEATH.

IF EQUIPPED WITH A MANUAL OVERRIDE, MAKE SURE OVERRIDE IS IN NEUTRAL POSITION

TO RAISE:

1. SECURE ALL EQUIPMENT
2. OPEN SAFETY LOCKS (IF APPLICABLE)
3. CLEAR OPERATIONAL AREA
4. TURN ON MASTER SWITCH
5. PUSH LIFT SWITCH UP UNTIL FULLY RAISED
6. TURN OFF MASTER SWITCH
7. ENGAGE SAFETY LOCKS (IF APPLICABLE)

TO LOWER:

1. CLOSE COMPARTMENT DOORS
2. OPEN SAFETY LOCKS (IF APPLICABLE)
3. CLEAR OPERATIONAL AREA
4. TURN ON MASTER SWITCH
5. PUSH LIFT SWITCH DOWN UNTIL FULLY LOWERED
6. TURN OFF MASTER SWITCH

**POWERED EQUIPMENT RACK**

1324181

OFF ON

MASTER

UP DOWN

LIFT

**CAUTION**  
CHECK OVERHEAD AREA, BUMPER COMPONENTS, MIRRORS, AND SIGHT RODS FOR CLEARANCE BEFORE TILTING CAB.

**⚠ DANGER**  
CAB STAY ARM MUST BE IN THE SUPPORT POSITION BEFORE MOVING UNDER OR WORKING ON THE CAB IN THE TILT POSITION. NEVER WORK ON THE CAB WITHOUT STAY ARM IN THE SUPPORT POSITION. FAILURE TO FOLLOW PROPER PROCEDURES CAN RESULT IN INJURY OR DEATH.

**CAB LIFT OPERATING INSTRUCTIONS**

**TO RAISE CAB:**

1. Prepare cab to tilt:  
Park on level surface.  
Turn engine OFF.  
Set parking brake.  
Secure loose items in cab.  
No obstructions in lift path.  
Fold up steps on rear wall.
2. Turn battery switch to ON.
3. Turn ignition switch to ON.
4. Move control switch to RAISE.
5. Press ACTIVATE switch until cab fully lifts.
6. Swing safety Stay-Arm into pocket.
7. Move control switch to LOWER.
8. Press ACTIVATE switch until cab is resting on Stay-Arm.

**TO LOWER CAB:**

1. Prepare cab to lower:  
Check that no persons or obstructions are in the path.  
Fold up steps on rear wall.
2. Parking brake must be set.
3. Turn battery switch to ON.
4. Turn ignition switch to ON.
5. Move control switch to RAISE.
6. Press ACTIVATE switch until cab is off safety Stay-Arm.
7. Slow and secure Stay-Arm.
8. Move control switch to LOWER.
9. Press ACTIVATE switch until cab fully lowers and for 5 seconds after cab comes to rest.
10. Make sure cab is latched down before operating vehicle.

Manual Override: See Operation Manual

**RAISE**

**LOWER**

**ACTIVATE**

**CHECK ALL CAB STEPS ARE FOLDED UP BEFORE RAISING CAB**

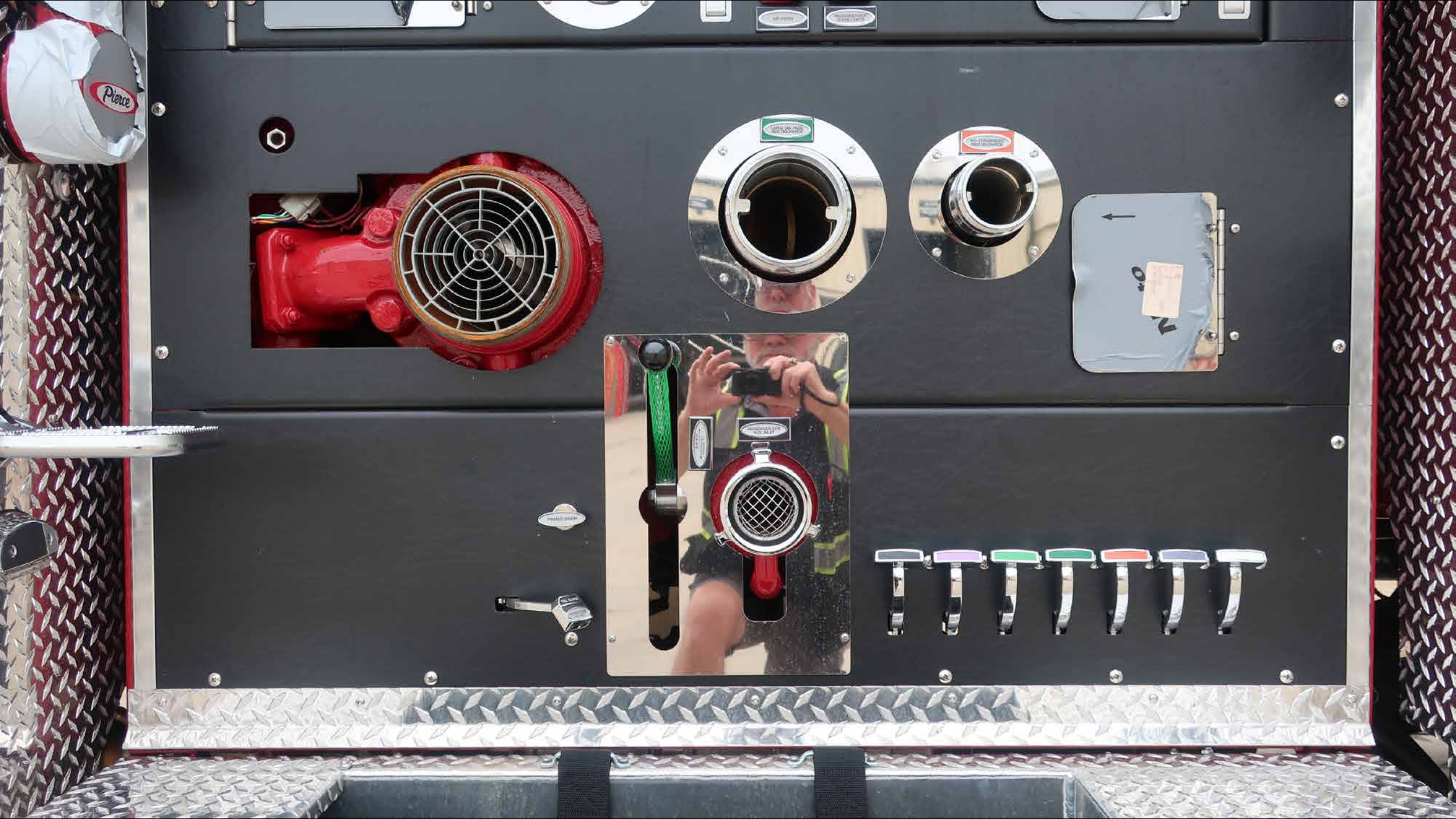
2644992-0001 CAB LIFT



AIR HORN

PASSENGER SIDE SCENE LIGHTS





Pierce

TEMPERATURE

TEMPERATURE

NO FLAMMABLE LIQUIDS

NO FLAMMABLE LIQUIDS

NO

TEMPERATURE

PIERCE

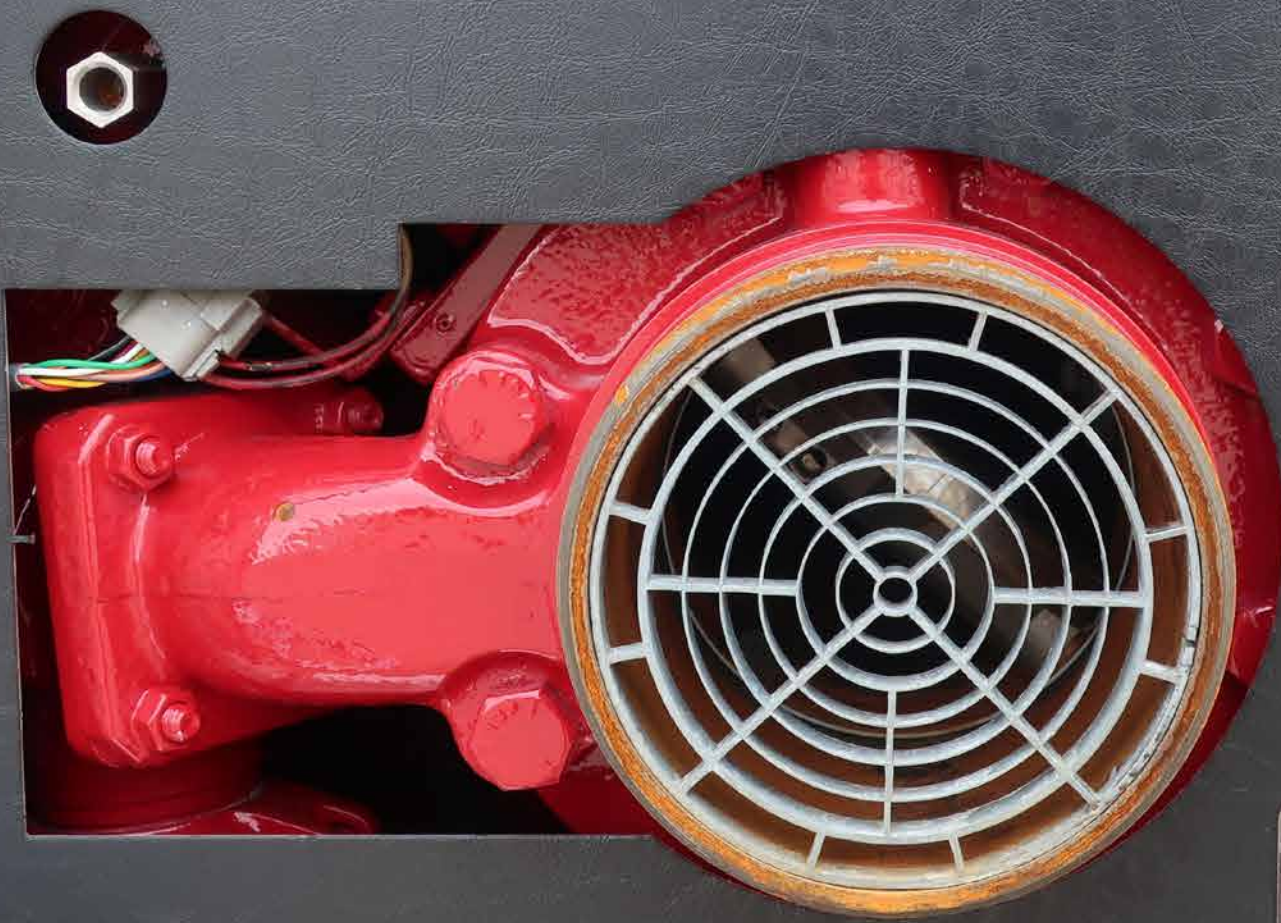
PIERCE

Buttons with colored tops: white, purple, green, red, orange, blue, white

LARGE DIA. PASS.  
SIDE DISCHARGE

NO. 3 PASSENGER  
SIDE DISCHARGE





PASSENGER SIDE  
AUX. INLET



PULL TO OPEN  
PASSENGER MAIN INLET

PULL TO OPEN  
PASSENGER REAR  
DISCHARGE

PULL TO OPEN  
NO. 4 PASSENGER  
SIDE DISCHARGE

PULL TO OPEN  
LARGE DIA. PASS  
SIDE DISCHARGE

PULL TO OPEN  
NO. 3 PASSENGER  
SIDE DISCHARGE

PULL TO OPEN  
NO. 3 CROSSLAY

PULL TO OPEN  
NO. 2 CROSSLAY





PRIMER DRAIN

PULL TO OPEN  
PASSENGER SIDE  
AUX. INLET









Pierco

**WARNING**

DO NOT	DO NOT	DO NOT
Operate the vehicle with the engine off.	Operate the vehicle with the engine off.	Operate the vehicle with the engine off.
Operate the vehicle with the engine off.	Operate the vehicle with the engine off.	Operate the vehicle with the engine off.
Operate the vehicle with the engine off.	Operate the vehicle with the engine off.	Operate the vehicle with the engine off.
Operate the vehicle with the engine off.	Operate the vehicle with the engine off.	Operate the vehicle with the engine off.
Operate the vehicle with the engine off.	Operate the vehicle with the engine off.	Operate the vehicle with the engine off.
Operate the vehicle with the engine off.	Operate the vehicle with the engine off.	Operate the vehicle with the engine off.
Operate the vehicle with the engine off.	Operate the vehicle with the engine off.	Operate the vehicle with the engine off.
Operate the vehicle with the engine off.	Operate the vehicle with the engine off.	Operate the vehicle with the engine off.
Operate the vehicle with the engine off.	Operate the vehicle with the engine off.	Operate the vehicle with the engine off.













GAMBER  
JOHNSON

SRS

Pierce



**WARNING**  
Occupant Seat Belt System  
Always wear the seat belt to reduce the risk of injury or death.  
Do not drink and drive.  
Do not use alcohol or drugs while driving.  
Do not use mobile phones while driving.  
Do not use the vehicle for any purpose other than that intended.  
Do not use the vehicle for any purpose other than that intended.  
Do not use the vehicle for any purpose other than that intended.



G GAMBER  
JOHNSON





SIREN BRAKE





AIR HORN



ELECTRONIC  
SIREN







Aux

- Aux Select
- Receive



Rx

Tx



Radio

- Monitoring
- Radio Select
- Receive
- Transmit



VOLUME



SQUELCH



AUX



RADIO

**FIRE**  **COM**









**HUGHES FIRE EQUIPMENT**