

## COLD WEATHER BRAKE EVALUATION PROCEDURES

(continued)

- b. IF VEHICLE MOVES ONE VEHICLE LENGTH BELOW 1900 RPM, WITH SERVICE BRAKES APPLIED, PLACE GEAR SELECTOR IN REVERSE (R), & GRADUALLY ACCELERATE TO 1900 RPM ALLOWING VEHICLE TO MOVE BACKWARD ONE VEHICLE LENGTH
- c. WITH SERVICE BRAKES APPLIED CONTINUE TO MOVE VEHICLE FORWARD AND BACKWARD UNTIL VEHICLE REMAINS STATIONARY AT 1900 RPM
- d. IF VEHICLE REMAINS STATIONARY, BRAKES ARE OPERATIONAL
- e. AFTER 10 CYCLES VEHICLE FAILS TO REMAIN STATIONARY, NOTIFY FIELD MAINTENANCE

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## **STRYKER COLD WEATHER OPERATION**

*This abbreviated checklist is not to be used as a replacement for the -23 series Tech Manual or any other PMCS guide.*

### **COLD WEATHER START**

1. ALL COMMUNICATION AND EQUIPMENT SWITCHES OFF
2. PLACE CREW/DRIVER HEATER VALVE TO CLOSED
3. PLACE ENGINE PREHEAT VALVE TO OPEN
4. START HEATER
  - MONITOR VOLTMETER FOR BATTERY CHARGE
5. OPERATE PECCH UNTIL ENGINE TEMP REACHES 1250 AT 00 TO -250 F
  - AT -250 TO -510 F OPERATE HEATER FOR 1 HOUR TO DECREASE OIL VISCOSITY
6. SET BATTERY INTERCONNECT MASTER SWITCH TO ON
7. START ENGINE
  - a. NEVER OPERATE STARTER LONGER THAN 30 SECONDS AT A TIME
  - b. ALLOW 2 MINUTES BETWEEN STARTS FOR STARTER COOL DOWN
8. PERFORM START UP CHECKS (OIL PRESSURE AND FRONT AND REAR BRAKE AIR RESERVOIR PRESSURE, ETC.)

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### **COLD WEATHER START(continued)**

- a. AFTER ENGINE START, ALLOW 30 SECONDS FOR OIL CIRCULATION TO TURBOCHARGER
  - b. DO NOT EXCEED 1200 RPM IMMEDIATELY AFTER START-UP
9. TURN HEATER OFF IF NOT NEEDED
  10. SET BATTERY INTERCONNECT MASTER SWITCH TO OFF
  11. PERFORM REMAINING BEFORE OPERATION CHECKS

### **COLD WEATHER BRAKING OPERATIONS**

1. CHECK BRAKE LINES/HOSES, CHAMBERS, VALVES & SEALS ARE SERVICEABLE
  - AIR DRYER WILL PURGE MOISTURE EVERY 50- 80 SECONDS WHEN COMPRESSOR IS OPERATING AND/OR FULL AIR PRESSURE IS ATTAINED
2. VERIFY AIR COMPRESSOR, AIR DRYER, GOVERNOR ARE SERVICEABLE
  - CLOSE DRAIN COCKS IMMEDIATELY AFTER DRAINING TO PREVENT FREEZING IN OPEN POSITION
3. DRAIN RESERVIORS IMMEDIATELY AFTER OPERATION AND AFTER 8 HOURS OF CONTINUOUS OPERATION
4. CHECK BRAKES ARE NOT FROZEN AND CAN BE RELEASED
  - COLD WEATHER BRAKE PROCEDURES MUST BE PERFORMED AFTER START-UP OR MORE THAN 1 HOUR STATIONARY IN SUB 360 F
5. PERFORM COLD WEATHER BRAKE EVALUATION PROCEDURES
  - WHEN ENGAGED IN 8-WHEEL DRIVE, ABS IS NOT AVAILABLE

### **COLD WEATHER BRAKING OPERATIONS (continued)**

6. AFTER INITIAL START-UP MOVE OFF SLOWLY (12 MPH) AND BRING VEHICLE TO COMPLETE STOP TO CHECK BRAKES
7. EMERGENCY BRAKING PROCEDURES FOR LOST OF AIR PRESSURE
  - a. USE ENGINE EXHAUST BRAKE
  - b. DOWN SHIFT
  - c. USE EMERGENCY BRAKE UNDER 5 MPH

### **COLD WEATHER BRAKE EVALUATION PROCEDURES**

1. CHECK BRAKE LINES, CHAMBER, VALVES, & SEALS FOR SERVICEABLE CONDITION
2. LISTEN TO AIR DRYER OPERATION, THERE SHOULD BE PURGING
3. SOUND EVERY 50-80 SECONDS
  - PERFORM COLD BRAKE PROCEDURES AFTER VEHICLE START-UP OR AFTER VEHICLE HAS BEEN STATIONARY FOR 1 HOUR OR MORE AT TEMPERATURES BELOW 360 F
4. PERFORM ENGINE START-UP
5. PLACE TRANSFER CASE IN HIGH RANGE
6. ENGAGE 8-WHEEL DRIVE & APPLY SERVICE BRAKES, DISENGAGE TRANSFER CASE LOCK, & RELEASE PARKING BRAKES
7. PLACE TRANSMISSION GEAR SELECTOR IN DRIVE (D)
  - a. SERVICE BRAKES APPLIED, GRADUALLY ACCELERATE TO 1900 RPM & IF VEHICLE REMAINS STATIONARY, BRAKES ARE OPERATIONAL