NORTH AMERICAN STANDARD INSPECTION PROCEDURE

1. PREPARE THE VEHICLE AND DRIVER

Instruct the driver to remain at the controls, and turn the engine off. (Allow cool down time for turbo-charged en-

Place chock blocks in position beginning on the driver's side, one in front and one behind the drive axle tires or between the axies, and advise the driver that the wheels have been chocked.

Have the driver place the transmission in neutral and release all brakes.

Advise the driver in the use of hand signals. (Lamps and

2. CHECK DRIVER'S REQUIREMENTS

- DRIVER LICENSE (391.11)
 Check for expiration date, birth date, status check.
- MEDICAL CERTIFICATE (391.41) Check for expiration date, corrective lenses, hearing aid, signatures.
- MEDICAL WAIVER (If applicable) (391.49) Check for expiration date, and make sure form is com-
- pleted. Note the stated physical limitations. RECORD OF DUTY STATUS (395.8) (395.3) Updated to last change of duty status, today's date, legible handwriting, past 7 days recorded, mileage, driving time, on duty time, vehicle numbers, carrier name, signa-

"Remarks" section may include locations of duty status change, unusual circumstances that delay the trip, and shipping document numbers or the name of the shipper. Check for written authorization for interactive electronic recording devices, if applicable DRIVER VEHICLE INSPECTION REPORT (396.11)

- Check for I.D. number of vehicle(s) inspected, record of defects found (if any), and signatures. SHIPPING PAPERS/BILL OF LADING
- Check for listings of hazardous materials indicated by the first entry, an "X" in the H.M. column, or a contrasting color. Papers must be within arm's reach and visible.
- SEAT BELT (392.16)
- Check for condition and usage
- ALCOHOL AND DRUGS (392.4) (392.5) Check for violations

3. CHECK FOR PRESENCE OF HAZARDOUS MATERIALS

- PLACARDS
- Check for the presence of placards, but use caution even if none are posted.
 LEAKS, SPILLS, UNSECURE CARGO
- When hazardous materials are present, be ESPECIALLY careful with leaks, spills, or unsecure cargo
- MARKINGS

Cargo tanks and ponable tanks will display markings on an orange panel or placard. They indicate the I.D. number the hazardous materials. There are exceptions to this rule.

LABELS

When containers are visible, labels will identify the hazardous materials. There are exceptions to this rule

4. INSIDE CAB

- STEERING LASH
 - Measure amount of steering lash and compare with Outof-Service Criteria.
- STEERING COLUMN
- Check for unsecure attachment

5. FRONT OF TRACTOR

- HEAD LAMPS, TURN SIGNALS, EMERGENCY FLASH-ERS (393.25)
- Check for improper color and operation
- WINDSHIELD WIPERS (393 78) Check for improper operation. Two wipers are required unless one can clean the driver's field of vision.
- WINDSHIELD (393.60) Check for cracks or other damage. Check for decals or stickers in field of vision.

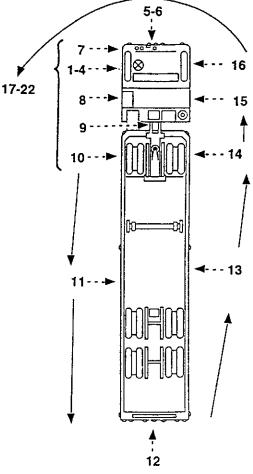
6. STEERING AXLE

INFORM THE DRIVER THAT YOU ARE GOING UNDER THE VEHICLE, AND TO LISTEN FOR YOUR IN-STRUCTIONS.

STEERING SYSTEM (BOTH SIDES)

signs of axle misalignment

- Check for loose, worn, bent, damaged or missing parts, Instruct the driver to rock the steering wheel, and check key components: front axie beam, gear box, pitman arm, drag link, tie rod, tie rod ends. FRONT SUSPENSION (BOTH SIDES)
 Check for indications of misaligned, shifted, or cracked
- springs, loosened shackles, missing botts, spring hang-ers unsecure at frame, and cracked or loose U-botts Also, check for unsecure axie positioning parts and



FRONT BRAKES (BOTH SIDES) (393.48)

Check for missing, nonfunctioning, loose, contaminated, or cracked parts on the brake system, such as brake drum, shoes, rotors, pads, linings, brake chamber, chamber mounting, push rods, slack adjusters

Check for "S" cam flip over. Be alert for audible air leaks around brake components and lines.

With the brakes released, mark the brake chamber push rod at a point where the push rod exits the brake chamber. Mark the push rods on both sides at this time; all push rods will be measured in ITEM 18

FRONT AXI F

Check for cracks, welds, and obvious misalignment.

FRAME and FRAME ASSEMBLY

Check for cracks, or any defect that may lead to the collapse of the frame.

7. LEFT FRONT SIDE OF TRACTOR

LEFT FRONT WHEEL & RIM

Check for cracks, unseated locking rings, broken or missing lugs, studs or clamps. Bent or cracked rims, 'bleeding' rust stains, loose or damaged lug nuts and elongated stud holes. LEFT FRONT TIRE (393.75)

Check for improper inflation, serious cuts, bulges. Check tread wear and measure major tread groove depth, inspect sidewall for defects. Check for exposed fabric or cord. Radial and bias tires should not be mixed on the steering axle.

8. LEFT SADDLE TANK AREA

LEFT FUEL TANK(S) (393 65)

Check for unsecure mounting, leaks or other damage. Verify that the fuel crossover line is secure. Check for unsecure cap(s).

Check ground below tank for signs of leaking fuel. TRACTOR FRAME (393.201)

Check frame rais and cross members on the tractor just behind the cab, looking for cracks, bends, or excessive corresion.

Check for unsecure mounting, leaks (under the cab), exhaust contacted by fuel or air lines or electrical wires Check for carbon deposits around seams and clamps.

9. TRAILER FRONT

AIR & ELECTRICAL LINES (393.28)

Lines between tractor and trailer should be suspended and free of tangles and crimps. They should have sufficient stack to allow the vehicle to turn. Inspect line connections for proper seating. Listen for audible air leaks.
• FRONT END PROTECTION (393.105)

Check for height requirements. (Note exceptions.)

10. LEFT REAR TRACTOR AREA

WHEELS RIMS & TIRES

Inspect as described in ITEM 7

Check inside tire of dual for inflation and general condition. Tires should be evenly matched (same circumference) on dual wheels.

Without placing yourself between the tires on tandem axies, check for debris between the tires. LOWER FIFTH WHEEL (393.70)

Check for unsecure mounting to the frame or any missing or damaged parts.

Check for any visible space between the upper and lower fifth wheel plates.

Verify that the locking jaws are around the shank and not the head of the kingpin. Verify that the release lever is seated properly, and that the safety latch is engaged.

UPPER FIFTH WHEEL

Check for any damage to the weight bearing plate and its supports on the trailer. Check kingpin condition.

SLIDING FIFTH WHEEL

Check for proper engagement of locking mechanism (teeth fully engaged on rail). Check for worn or missing parts, making sure that the position does not allow the tractor frame rails to contact the landing gear during turns

INFORM THE DRIVER THAT YOU ARE GOING UN-DER THE VEHICLE. ENTER THE UNDERCARRIAGE IN VIEW OF THE DRIVER.

SUSPENSION (BOTH SIDES)

Inspect as described in ITEM 6. Check for deflated or leaking air suspension systems BRAKES (BOTH SIDES)

Inspect brakes as described in ITEM 6. With brakes released, mark the push rods

11. LEFT SIDE OF TRAILER

FRAME AND BODY

Check for cracks and any indication leading to collapse of the frame

CARGO SECUREMENT (393.100)

Check for improper blocking or bracing, and unsecure chains or straps. Verify end gates are secured in stake pockets. Check tarp or canvas.

WHEELS, RIMS, & TIRES

Inspect as described in ITEM 7.

SLIDING TANDEM

Check for misalignment and position. Look for damaged, worn, or missing parts. Check locking mechanism; teeth of locking mechanism must fully mesh with those of the rail secured to the frame.

INFORM THE DRIVER THAT YOU ARE GOING UN-DER THE VEHICLE. ENTER THE UNDERCARRIAGE IN VIEW OF THE DRIVER.

· SUSPENSION (BOTH SIDES)

Inspect as described in ITEM 6.

BRAKES (BOTH SIDES)

Inspect as described in ITEM 6. With brakes released, mark push rods.

12. REAR OF TRAILER

 TAIL, STOP, & TURN LAMPS & EMERGENCY FLASH-ERS

Check for improper color and operation. CARGO SECUREMENT

Inspect as described in ITEM 11

Also check tailboard security. Verify end gates are secured in stake pockets, and rear doors are closed. Check both sides of trailer to insure protection of cargo from shifting or falling

13. RIGHT SIDE OF TRAILER

. CHECK ALL ITEMS AS ON LEFT SIDE

RIGHT REAR TRACTOR AREA

CHECK ALL ITEMS AS ON LEFT SIDE

15. RIGHT SADDLE TANK AREA

CHECK ALL ITEMS AS ON LEFT SIDE.

RIGHT FRONT SIDE OF TRACTOR

CHECK ALL ITEMS AS ON LEFT SIDE.

17. BRAKE ADJUSTMENT CHECK

INFORM THE DRIVER THAT YOU ARE GOING UN-DER THE VEHICLE. ENTER THE UNDERCARRIAGE IN VIEW OF THE DRIVER.

. MEASURE PUSH ROD TRAVEL (ALL BRAKES) While the brakes are applied, move around the vehicle and measure the distance of push rod travel at each chamber.

Write down each push rod measurement, and compare them to the Out-of-Service Criteria for the appropriate size and type of brake chamber.

Again, listen for leaks as you move around the vehicle.

18. FIFTH WHEEL MOVEMENT CHECK

USE CAUTION

If conducted improperly, this method of checking for fifth wheel movement can result in serious damage to the vehicle. Use caution and instruct the driver carefully.

PREPARE THE VEHICLE AND DRIVER

Have the driver put the vehicle in gear, release the service brakes, and apply the trailer brakes.

Remove the wheel chocks and have the driver start the vehicle. Carefully explain the procedure to the driver. Tell the driver to GENTLY rock the tractor as you watch the fifth wheel.

CONDUCT THE PROCEDURE

As the tractor rocks, watch for movement between the mounting components and frame, pivot pin, and bracket, and the upper and lower fifth wheel halves.

19. AIR LOSS RATE

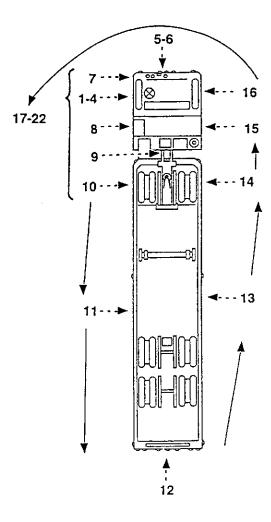
. WHEN TO CONDUCT THE TEST

If you heard an air leak at any point in the inspection, you should now check the vehicle's air loss rate.

• CONDUCT THE PROCEDURE

Have the driver run the engine at idle, then apply and hold the service brake.

Observe the air reservoir pressure gauge on the dash. Have driver pump the pressure down to 80 psi. Compressors do not activate until system pressure drops below a certain level. At about 80 lbs. most compressors should be operating.



Air pressure should be maintained or increase. A drop in pressure indicates a serious air leak in the brake system. and the vehicle should be placed out of service.

20. LOW AIR PRESSURE WARNING DEVICE

TEST THE WARNING DEVICE

Instruct the driver to pump the air down until the low air pressure warning device activates.

Observe the gauges on the dash. The low air pressure warning must activate at a minimum of 1/2 the compressor governor cut out pressure, approximately 55 psi.

21. TRACTOR PROTECTION VALVE

This procedure will test both the tractor protection valve and the trailer emergency brakes.

CONDUCT THE TEST

instruct the driver to release the emergency brakes by pushing in the dash valves.

Break the supply emergency line at the hose couplers between the tractor and the traiter. When the line is disconnected, a blast of air will be noticed. At this point, the emergency brakes on the trailer should set up

OBSERVÉ THE DASH GAUGE

Air will leak from the tractor side of the line until the pressure in the tractor's system drops to the 20-45 psi range. At that point, the air loss should stop, isolating the tractor air system.

A loss of air in the tractor system below the 20-45 psi range indicates a malfunctioning tractor protection valve. If the trailer brakes do not set up when the line is disconnected, there is a problem with the trailer emergency brakes.

22. COMPLETE THE INSPECTION

COMPLETE PAPER WORK

Complete inspection forms and other paperwork, as requited.

. CONCLUDE WITH THE DRIVER

Explain any violations or warnings to the driver. Take appropriate enforcement action, if necessary.

APPLY C.V.S.A. DECAL

Apply a C.V.S.A. decal on all vehicles that qualify.