Seat Model 6800/338 Bus Seat Model 6800/338 Premium LX Service Manua



Read and understand this manual before servicing this seat.



INTRODUCTION

MODEL 6800/338 BUS MODEL 6800/338 PREMIUM LX

SERVICE AND REPAIR

Proper service and repair are important to the safe, reliable operation of this seat. Service and repair should be preformed only by responsible persons who have been properly instructed and authorized to do so. The procedures recommend in this manual are safe effective methods for performing service and repair operations.

We could not possibly know, evaluate, and advise the service trade of all conceivable ways in which service can be done or of the possible hazardous consequences of each way. If you use a service procedure which is not recommended, be sure that personal safety and equipment safety will not be jeopardized.

It is the responsibility of the mechanic performing the service and repair to:

- inspect for abnormal wear and damage
- choose a repair procedure that will ensure your safety, the safety of others, and the safe operation of the equipment
- fully inspect and test the equipment to ensure that the repair or service has been properly performed and the equipment will function properly.

This manual describes the correct service procedures for Model 6800/348 Premium seats. The information in this manual was current at the time of printing and is subject to change without notice or liability.

READ AND UNDERSTAND THIS MANUAL AND THE OPERATOR'S MANUAL

Learn how to service Model 6800/348 Premium seats. Failure to do so could result in personal injury or equipment damage. Consult your dealer if you do not understand the instructions in this manual and/or need additional information.

KEEP THIS MANUAL

This manual should be considered a permanent part of the seat and be available for reference when servicing the seat.

WARRANTY

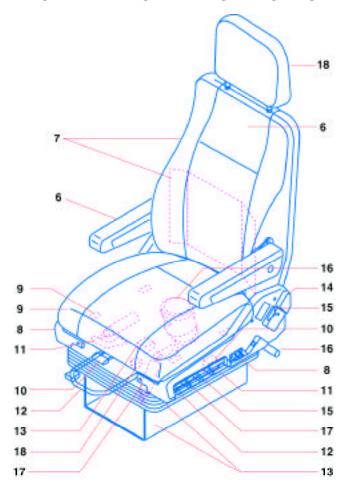
Warranty is provided as part of Isringhausen's support program for customers who operate and maintain their seat as shown in this manual. See the warranty for details.

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REMOVAL AND INSTALLATION PAGE NUMBERS



GENERAL SAFETY

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In this manual safety messages will alert persons to a specific hazard, the degree or level of hazard seriousness, the probable consequences of involvement with the hazard, and how the hazard can be avoided. Safety messages will include the safety alert symbol, a signal word, and a word message.

SAFETY ALERT SYMBOL



Indicates a potential personal safety hazard.

SIGNAL WORDS

DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING: Indicates an potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION: Indicates an potentially hazardous situation which, if not avoided, may result in minor or serious injury.

WORD MESSAGE

The word message will identify the hazard, indicate how to avoid the hazard, and advise of probable consequence of not avoiding the hazard.

TROUBLESHOOTING

Problem	Cause	Solution	Page
Armrest will not stay in position.	Armrest control is defective.	Replace armrest.	6
Backrest will not adjust	Teeth on backrest are defective.	Replace backrest.	6
and/or stay adjusted.	Backrest seat latch is defective.	Replace backrest seat latch.	14
Lumbar/Bolster	No air supply to seat.	90 to 145 psi req'd.	5
will not inflate.	Air lines leak.	Replace air lines.	7
	Valve is defective.	Replace valve.	8
	Air bags leak.	Replace air bags.	7
Height will not adjust and/or	Height adj. cam is defective.	Replace height adj. cam.	11
stay adjusted.	Height adj. cylinder is defective.	Replace height adj. cylinder.	11
	Height adj. valve is defective.	Replace height adj. valve.	10
Horizontal slide will not adjust and/or stay adjusted.	Horizontal slide is defective.	Replace horizontal slide.	12
Seat pan assem. will not adjust	Seat pan lever is defective.	Replace seat pan lever.	10
and/or stay adjusted.	Seat pan glides are defective.	Replace seat pan glides.	9
Quick air release	No air supply to seat.	90 to 145 psi req'd.	5
will not function.	Valve is defective.	Replace valve.	12
Adjustable shock absorber	Shock absorber is defective.	Replace shock absorber.	17
will not adjust.	Shock absorber cable is defective.	Replace shock absorber cable.	17
Suspension will not function properly.	Suspension is defective.	Replace suspension.	13



Avoid the risk of injury.

Vehicle must be in a safe parked position before inspecting seat.

Visually inspect the seat. Look for damaged or worn upholstery and parts. The seat should be clean and free of dirt and debris. Check all the seat functions they should work properly and be in good condition.

1. Adjustable armrest

Should move up freely, the adjustment knob should be eas the armrest must stay in the adjusted position.

2. Backrest adjustment

The control should be easy to release then the backres move freely. The backrest must stay in the adjusted positi

3. Backrest side bolster

The control should be easy to move to the inflate or do position and must return to neutral when released. Each support should inflate and deflate evenly and stay at t adjusted firmness..

4. Height adjustment

Control should be easy to move and hold the seat in the adjusted position when released.

5. Horizontal adjustment

Control should be easy to move and hold the seat in the adjusted position when released.

6. Seat tilt adjustment

Control should be easy to move and hold the seat in position when released.

7. Lower and upper lumbar support

The controls should be easy to move to the inflate or deflate position and must return to neutral when released. Each lumbar support must stay at the adjusted firmness.

8. Cushion length adjustment

Control should be easy to move and hold the seat cushion in the adjusted position when released.

9. Adjustable shock absorber

Control should be easy to move and stay in position when released.

10. Quick air release

Control should be easy to move and hold seat in the adjusted position when released.

11. Horizontal isolator

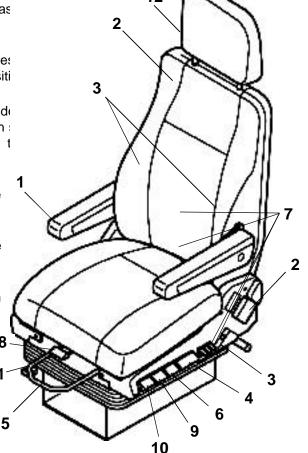
Control should be easy to move and stay in position when released.

12. Headrest

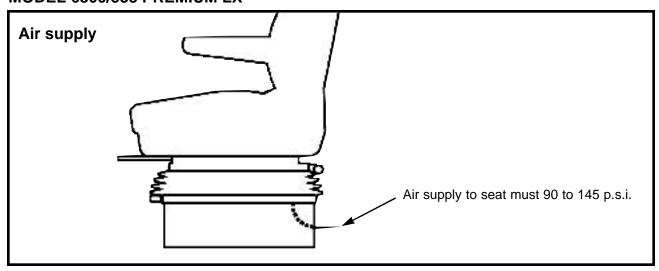
Should be easy to move up and down and stay in position. Headrest should tilt forward and backward freely.

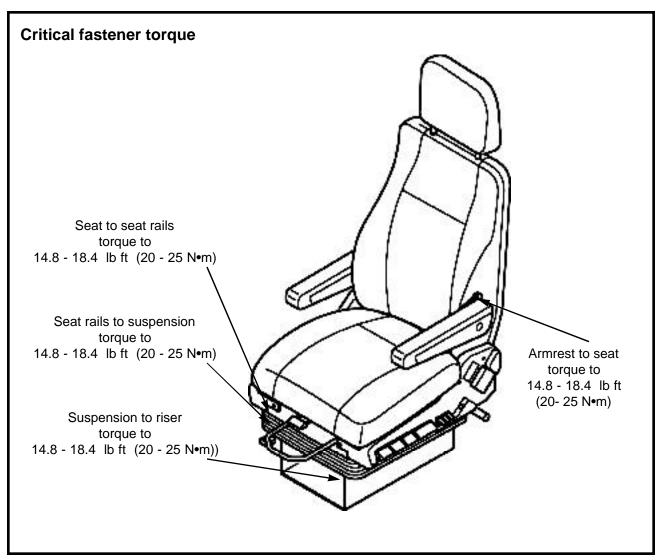
11

If the seat is not functioning properly take it out of service until it can be repaired.



INSPECTION





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CAUTION

Avoid the risk of injury. Vehicle must be in a safe parked position before working on the seat.

NOTICE

To remove seat from vehicle follow vehicle manufacturer's instructions.

Armrest

Set up

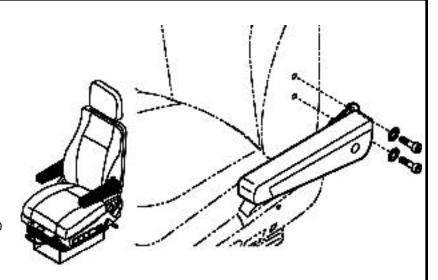
 Vehicle must be in a safe parked position or seat removed from vehicle.

Removal

- Remove fasteners
- Remove armrest

Installation

- Fasten armrest to seat with screws and lockwashers.
- Torque screws to 14.8 18.4 lb ft (20 25 N•m)



Backrest

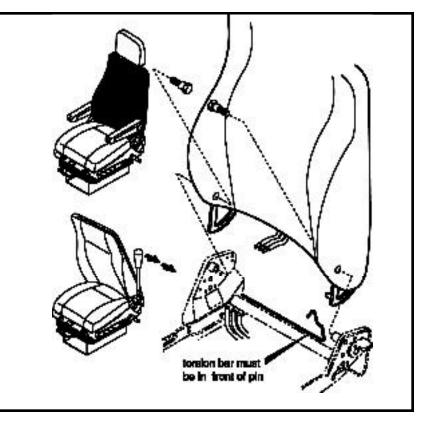
Set up

 Vehicle must be in a safe parked position or seat removed from vehicle.

Removal

- · Mark and disconnect air lines
- Remove fasteners
- Pry one side of seat frame away from backrest
- Remove backrest

- Put one side of backrest in place
- Pry other side of seat frame away and put backrest in place
- Fasten backrest to seat frame with shoulder bolts
- Torque shoulder bolts to 22 25.5 lb ft (30 35 N•m)
- · Connect air lines



Backrest assembly

Set up

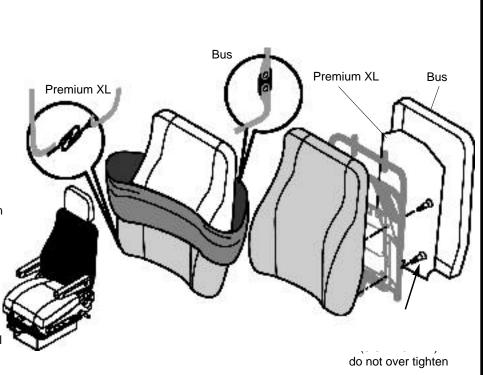
 Backrest must be removed from seat (see Backrest)

Removal

- Premium XL remove upholstery and backrest liner
- Bus remove cover, hog rings and wires.-- remove upholstery
- Remove backrest cushion fasteners -- remove cushion

Installation

- Fasten backrest cushion to backrest frame with screws
- Premium XL install backrest liner and upholstery
- Bus install upholstery, hog rings and wires.-- instal cover



Lumbar and bolster air bags

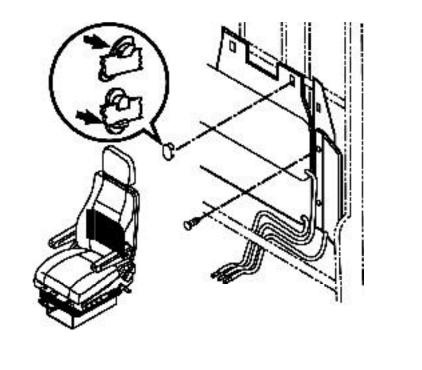
Set up

 Remove backrest components (see Backrest assembly)

Removal

- Remove air bag clips, push fasteners and cable ties
- Remove air bags

- Fasten air bags to backrest frame with clips - put long clip arm over bar and snap bottom of clip in place
- Install push fasteners and cable ties



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Lumbar and bolster valve

Set up

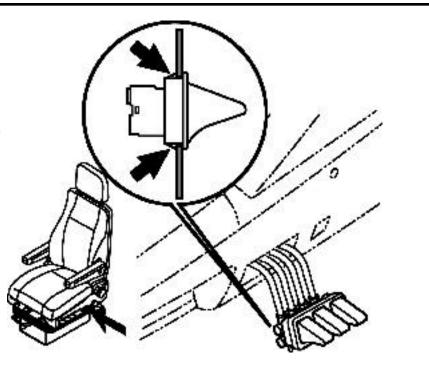
• Cover must be removed from seat (see Covers front, LH and RH)

Removal

- Mark air line and remove them from valve
- Press valve clips in and remove valve from cover

Installation

- Snap valve into cover
- Connect air lines



Covers, LH and RH

Set up

 Vehicle must be in a safe parked position or seat removed from vehicle.

Removal

Control cover

- Remove backrest adjustment handle
- Remove tilt adjustment handle for fastener access
- · Remove fasteners and cover

Non control cover

• Remove fasteners and cover

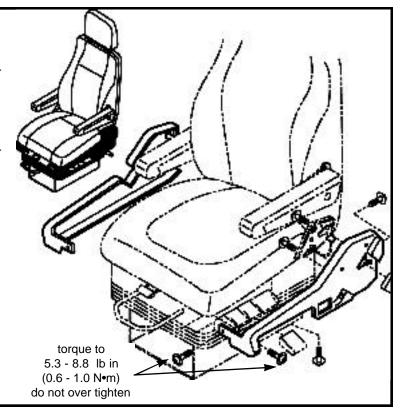
Installation

Control cover

- Fasten cover to seat frame with screws
- Install backrest adjustment handle
- Install tilt adjustment handle removed for fastener access

Non control cover

• Fasten cover to seat frame with screws



Seat pan assembly

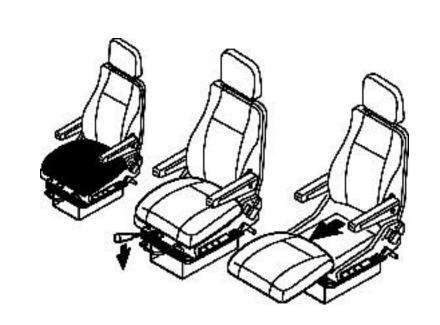
• Vehicle must be in a safe parked position or seat removed from vehicle.

Removal

- Slide cushion assembly forward
- Pry lever handle up to release cushion stop -- lift cushion off of glides

Installation

• Put seat cushion assembly on glides and slide back



Glides - seat pan

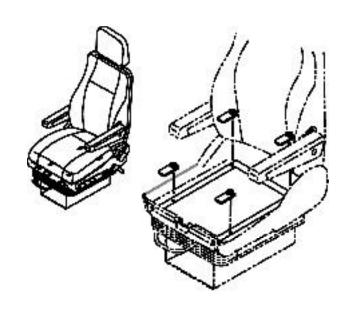
Set up
• Seat cushion must be removed from seat (see Cushion seat pan)

Removal

• Remove cushion glides

Installation

· Install cushion glides to seat frame



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Seat pan assembly, lever and handle

Set up

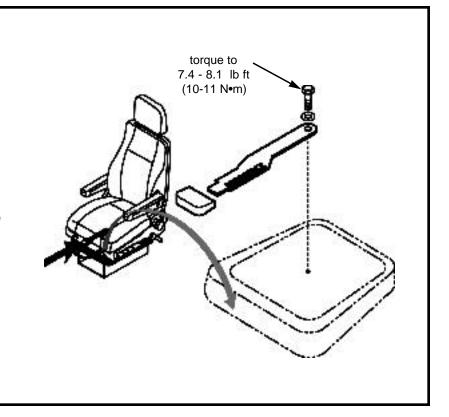
 Seat cushion must be removed from seat (see Cushion seat pan)

Removal

- Pull handle off
- Remove lever fasteners and remove lever

Installation

- Align locator button of lever with hole in seat pan
- Fasten lever to seat pan with screw and washer
- Push handle on



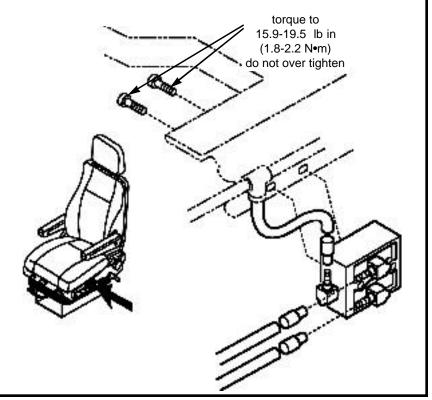
Height adjustment valve

Set up
• Seat cushion must be removed from seat (see Cushion seat pan)

Removal

- Mark and remove air lines from valve
- Remove valve fasteners
- * Remove valve

- Fasten valve to seat frame with screw
- Connect air lines



Height adjustment handle

Set up

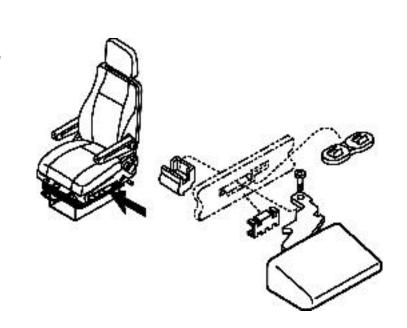
- Vehicle must be in a safe parked position or seat removed from vehicle
- Control cover must be removed (see Covers front, LH and RH)

Removal

- Remove screw and cam
- Pull handle and lever out
- Remove retainers

Installation

- Put upper retainers in place
- Put lever in place
- Put lower retainers in place be sure it snaps in place
- Install cam and screw
- Install handle



Height adjustment cylinder and cam

Set up

- Vehicle must be in a safe parked position or seat removed from vehicle
- Seat cushion must be removed from seat (see Cushion seat pan)

Removal

Air cylinder

 Remove base end pin and retainer washer - remove rod end fastener, air line, and remove cylinder

Carr

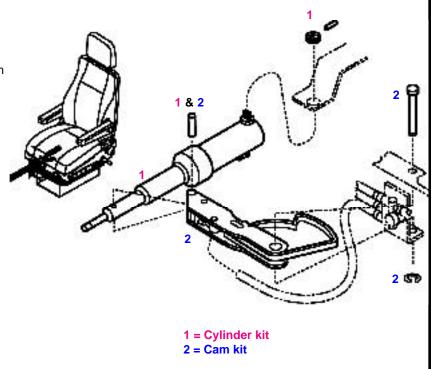
- Remove rod end fastener
- Remove E ring and mounting pin
- Remove cam

Installation Air cylinder

 Put cylinder in place and install base end pin and retainer washer - install rod end fastener, connect air line

Cam

 Put cam in place and install pin and E ring



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Horizontal adjustment slide set

Set up

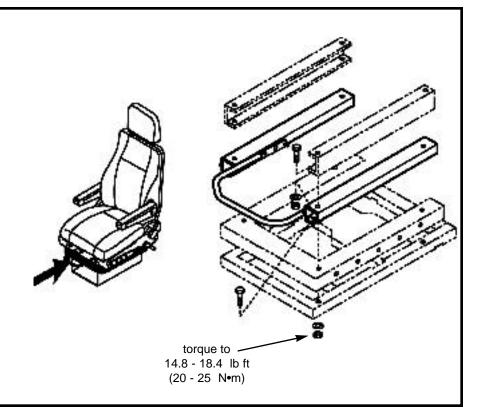
• Seat frame must be removed (see Seat frame)

Removal

- Move horizontal adjustment forward or back to allow access to fasteners
- Remove mounting fasteners

Installation

- Move horizontal adjustment forward or back to allow access to fasteners
- Install mounting fasteners



Quick air release - valve and handle LH and RH

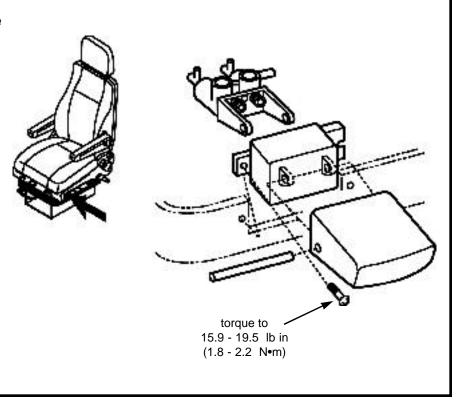
Set up

 Seat cushion must be removed from seat (see Cushion seat pan)

Removal

- Mark and remove air lines from valve
- Remove valve fasteners
- Remove valve
- Remove valve handle pin and valve handle

- Fasten valve handle to valve with pin
- Fasten valve to seat frame with screw
- · Connect air lines



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REMOVAL and INSTALLATION

Quick air release valve - suspension

Set up

 Seat cushion must be removed from seat (see Cushion seat pan)

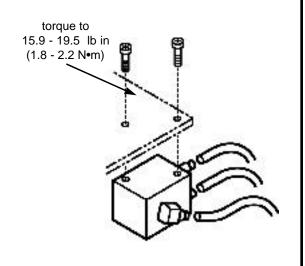
Removal

- Mark and remove air lines from valve
- Remove valve fasteners and remove valve

Installation

- Fasten valve to suspension with screws
- Connect air lines





Riser and Suspension

Set up - riser and suspension

 Vehicle must be in a safe parked position or seat removed from vehicle.

Set up - suspension

 Boot, Boot adapter plate, ICP bar, and tethers must be removed (see Boot, Boot adapter plate, ICP bar, and tethers)

Removal - suspension

- Remove air line
- Remove suspension to riser fasteners and remove suspension

Installation - suspension

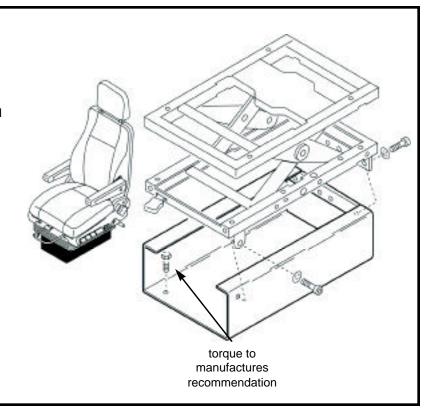
- Put suspension in place
- Install fasteners and torque to 14.8 -18.4 lb ft (20 - 25 N•m)
- Connect air line

Removal - riser

 Remove riser to floor fasteners and remove riser

Installation - riser

• Put riser in place and install fasteners, torque to manufactures specification



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Seat frame

Set up

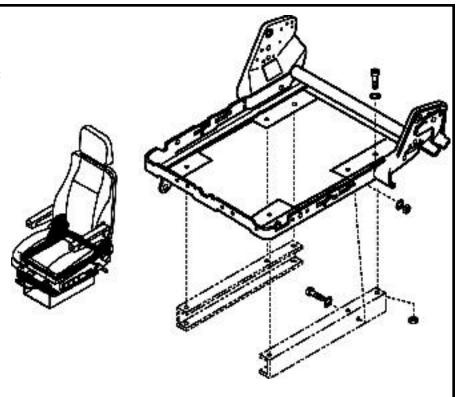
- Seat cushion and backrest must be removed from seat (see Cushion seat pan and Backrest)
- Shock absorber handle and cable must be removed. (see Adjustable shock absorber handle and cable - handle end)

Removal

- Mark and remove air lines
- Remove fasteners
- Remove seat frame

Installation

- Fasten seat frame to static spacer rails with bolts and nuts
- Torque fasteners to 14.8 18.4 lb ft (20 - 25 N•m)
- Connect air lines



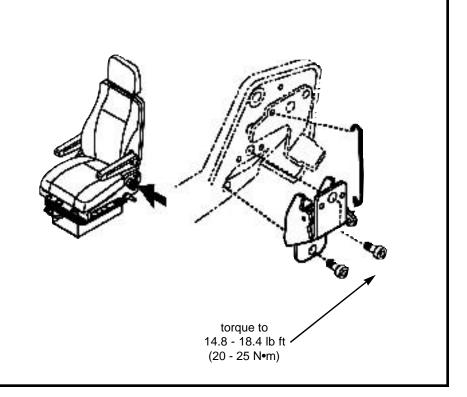
Seat frame tooth plate

Set up• Backrest and covers must be removed from seat (see **Backrest and Covers front, LH** and RH)

Removal

- · Remove seat latch fasteners
- · Remove seat latch
- Remove connecting link

- Install connecting link
- Fasten seat latch to seat frame with screws



Backrest adjustment handle

Set up

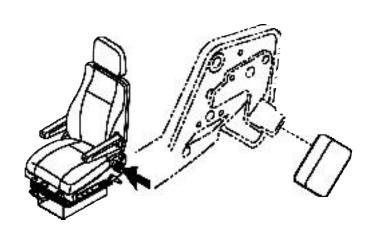
• Vehicle must be in a safe parked position or seat removed from vehicle.

Removal

• Pull handle off

Installation

• Push handle on



Tilt handle

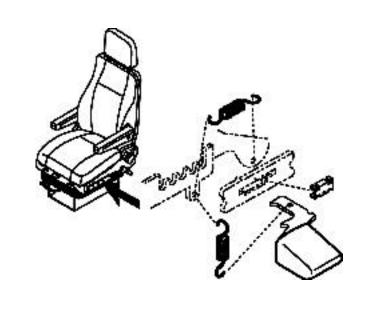
Set up

• Vehicle must be in a safe parked position or seat removed from vehicle.

Removal

- Remove springs
- Pull handle and lever out
- Remove retainer

- Put lever in place
- Install retainer, be sure it snaps in place
- Install springs
- Install handle



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Air spring

Set up

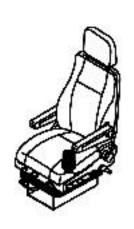
- Seat must be removed from vehicle
- Seat cushion must be removed from seat (see Cushion seat pan)

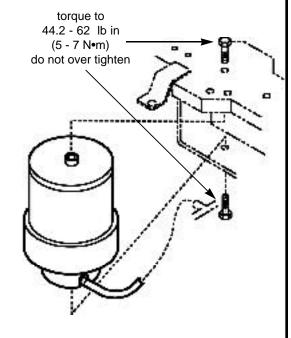
Removal

- · Mark and disconnect air line
- Remove top and bottom mounting fasteners
- Remove air spring

Installation

- Put air spring in place
- Install top and bottom mounting fasteners
- Connect air line





Boot, Boot adapter plate ICP bar, and tethers

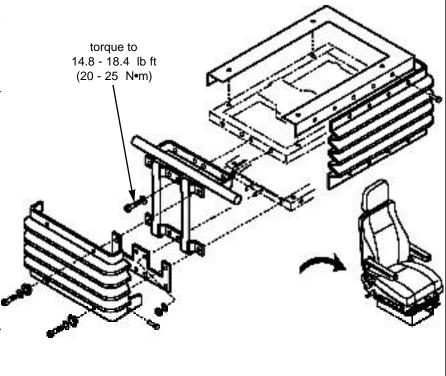
Set up

- Vehicle must be in a safe parked position or seat removed from veh
- Horizontal adjustment must be removed (see Horizontal adjustment)

Removal

- Remove belts from ICP bar
- Remove boot fasteners, remove boot, and boot adapter plate
- Remove fasteners, tether plate, tether brackets, tethers, and ICP bar

- Install fasteners, tether plate, tether brackets, tethers, and ICP bar
- Install boot adapter plate, boot, ar fasteners
- Install belts to ICP bar



Adjustable shock absorber handle and cable (handle end)

Set up

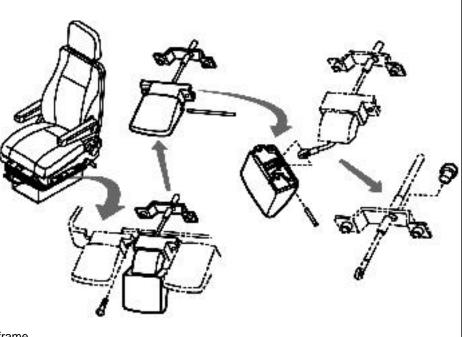
 Seat cushion must be removed seat (see Cushion seat pan)

Remova

- Remove fasteners and move control, bracket, and cable up away from seat frame
- Remove control handle pin and control handle
- Remove cable pin and cable
- Remove plug from bracket and remove cable

Installation

- Put cable in bracket and secur plug
- Route cable through control board fasten to control handle w
- Fasten control handle to control with pin
- Fasten control and bracket to frame with screws



Adjustable shock absorber and cable (shock absorber end)

Set up

- Vehicle must be in a safe parked position or seat removed from vehicle
- Seat cushion must be removed from seat (see Cushion seat pan)

Removal

Adjustable shock absorber

- Remove retaining rings
- Remove shock absorber

Adjustable shock absorber cable

- Remove retaining ring
- Remove cable

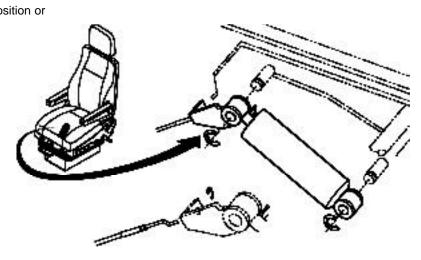
Installation

Adjustable shock absorber cable

- Put cable in place
- Install retaining ring

Adjustable shock absorber

- Put shock absorber in place
- Install retaining rings



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Distribution valve

Set up

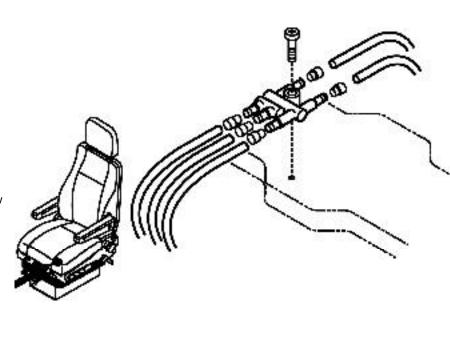
 Seat cushion must be removed from seat (see Cushion seat pan)

Removal

- Mark and remove air lines from valve
- Remove valve fastener and remove valve

Installation

- Fasten valve to frame with screw
- Connect air lines



Headrest

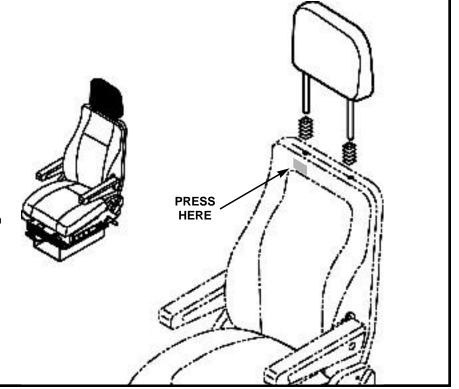
Set up

 Vehicle must be in a safe parked position or seat removed from vehicle

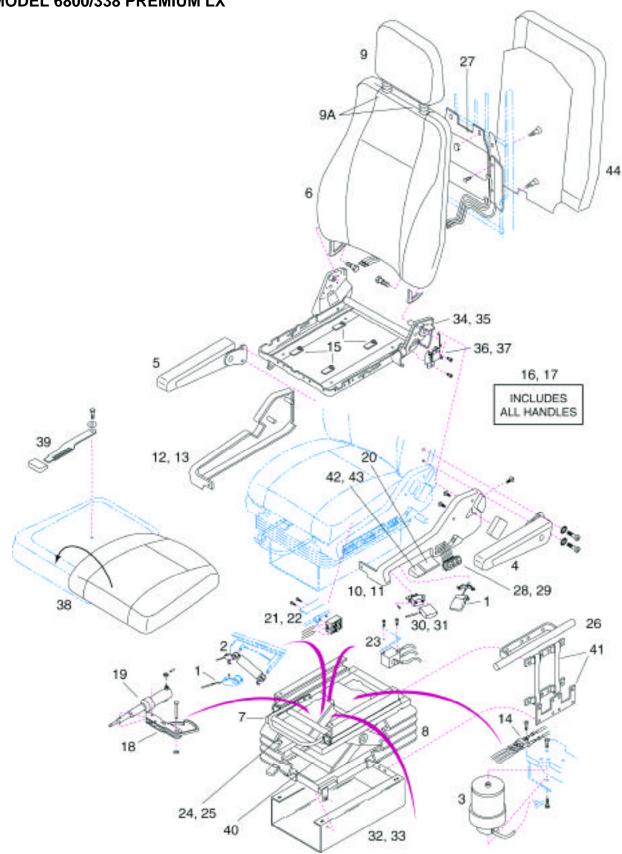
Removal

- Pull headrest to upper locking position
- Press foam, as shown, to release locking clip from detent on headrest and pull up

- Guide headrest bars into position
- Press down to engage locking clip



PARTS



MODEL 6800/338 BUS **MODEL 6800/338 PREMIUM LX**

item	part number	description
1	910353-09	ADJUSTABLE SHOCK ABSORBER CABLE KIT
2	98889-06	ADJUSTABLE SHOCK ABSORBER KIT
3	98872-15	AIR SPRING KIT
4	924473-32	ARMREST KIT - LH
5	924474-32	ARMREST KIT - RH
6	03003-00	BACKRESTASSEMBLY - NUDE
7	111776P02	BOOTADAPTER PLATE
8	926513-01	BOOT KIT
9	110922-00	HEADRESTASSEMBLY - NUDE
9A	47541	HEADREST BOOT (2 PCS)
10	920260-04	COVER KIT CONTROL - LH
10	927399-01	COVER KIT CONTROL - LH (W/O LOGO)
11	920263-04	COVER KIT CONTROL - RH
11	927398-01	COVER KIT CONTROL - RH (W/O LOGO)
12	920262-01	COVER KIT NON-CONTROL - LH
12	927397-01	COVER KIT NON-CONTROL - LH (BELT TO FRAME W/ LOGO)
12	927397-02	COVER KIT NON-CONTROL - LH (BELT TO FRAME W/O LOGO)
13	920261-01	COVER KIT NON-CONTROL - RH
13	927396-01	COVER KIT NON-CONTROL - RH (BELT TO FRAME W/ LOGO)
13	927396-02	COVER KIT NON-CONTROL - RH (BELT TO FRAME W/O LOGO)
14	915105-03	DISTRIBUTION VALVE KIT
15	914516-04	GLIDE KIT - SEAT PAN
16 17	920264-03	HANDLE KIT - SEAT FRAME - LH
17	920264-04	HANDLE KIT - SEAT FRAME - RH HEIGHTADJUSTMENT CAM KIT
19	33487 95486-03	HEIGHTADJUSTMENT CAM KIT HEIGHTADJUSTMENT CYLINDER KIT
20	920266-05	HEIGHTADJUSTMENT CYLINDER KIT HEIGHTADJUSTMENT HANDLE KIT - LH
20	920266-06	HEIGHTADJUSTMENT HANDLE KIT - LH HEIGHTADJUSTMENT HANDLE KIT - RH
21	98976-07	HEIGHTADJUSTMENT VALVE KIT - KIT
22	98875-07	HEIGHTADJUSTMENT VALVE KIT - EH
23	98873	HEIGHTADJUSTMENT VALVE KIT - SUSPENSION
24	24569F	HORIZONTALADJUSTMENT SLIDE HANDLE
25	18755-02	HORIZONTALADJUSTMENT SLIDE SET
26	111973P02	ICP BAR - TRUCK (NOT USED W/ BELT TO FRAME)
26	111895P01	ICP BAR - BUS (FOR BELT TO ICP BAR ONLY)
27	920272-01	LUMBAR/BOLSTER KIT
28	36571-01	LUMBAR/BOLSTER VALVE - LH
29	36572-01	LUMBAR/BOLSTER VALVE - RH
30	914514-24	QUICK AIR RELEASE VALVE AND HANDLE KIT - LH
31	914514-25	QUICK AIR RELEASE VALVE AND HANDLE KIT - RH
32	03007P	RISER - 127 MM (MCI 'D-SERIES' COACH)
33	03463P	RISER - 127 MM (STD, NEOPLAN, ORION VI, NEW FLYER)
33	03013P	RISER - 156 MM (MCI 'E-SERIES' COACH)
33	03468	RISER KIT - 76 MM (PREVOST COACH)
33	111779P03	RISER - 127 MM (KW O W900 & T2000, MACK, NAVISTAR)
33	112256P02	RISER - 110 MM (PB - 379)
34	03307-01	SEAT FRAME - LH
35	03308-01	SEAT FRAME - RH
36	914500-23	SEAT FRAME TOOTH PLATE KIT - LH
37	914500-24	SEAT FRAME TOOTH PLATE KIT - RH
38	03002-00	SEAT PAN ASSEMBLY - NUDE SEAT PAN ASSEMBLY LEVER AND HANDLE KIT
39 40	921845-02 111833-01	SUSPENSION
40 41	924464-01	TETHER AND TETHER PLATE KIT
41 42	924464-01	TILT HANDLE KIT - LH
42	920267-05	TILT HANDLE KIT - LH TILT HANDLE KIT - RH
43 44	01955-03	BACKREST PANEL (BUS ONLY)
77	01900-00	DITORICE (DOO ONE!)