



**Click on SRT to view**

45-02, 45-03, 45-04, 45-05, 45-06, 45-08  
 45-51, 45-52, 45-53, 45-151, 45-252  
 46-152, 46-154, 46-155, 46-157  
 52-03, 52-12  
 55-01, 55-03, 55-05, 55-06, 55-07, 55-08, 55-10, 55-14  
 56-04, 56-10  
 60-51, 60-150, 60-203, 65-01, 65-04

**STANDARD REPAIR TIMES**

OPT. NO.	Group 42 - Body Mounting Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
42-01	Mounting Pad - Replace	0.3	0.3	0.3	0.3	0.3	0.3
42-02	Mounting Bracket - Replace	0.2	0.2	0.2	0.2	0.2	0.2
42-03	Mounting Channel Clip with Bolt - Replace	0.2	0.2	0.2	0.2	0.2	0.2
42-04	Outrigger Assembly - Replace	0.6	0.6	0.4	0.5	0.3	0.3
42-05	Bolt in Shear Clip - Replace	0.2	0.2	0.2	0.2	0.2	0.2
42-06V	Von # 18 Improvements to Storable Emergency Evacuation Ramp		1	1		1	
42-07	Mounting Spring & Bolt Front (Replace)			0.2			0.3
42-08V	Von # 25 Vista Right Side Toeboard 1991- Y1993 (Vista 2.5)						
42-09V	Von # 26 Left Side Outrigger/Air Brakes 1991-1993 (Vista 1.5)						
42-10	<b>not in use</b>						
42-11	<b>not in use</b>						
42-12	<b>not in use</b>						
42-13	Ind. 3 Bul. 1 RRR Rear Wheelhouse crosstube per side			1.5			
42-14	Ind. 3 Bul. 1 RRRR Rear Wheelhouse crosstube per side			1			
42-15	Ind. 3 Bul. 12 Body Misalignmen	1	1	1			1
42-16	Ind. 12 Bul 11 Frame Riser Rubbing Spring Clamp.					0.1	



STANDARD REPAIR TIMES

OPT. NO.	Group 44 - Stanchions	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
44-01	Stanchion Assembly - Replace	0.2	0.2	0.2	0.2	0.2	0.2
44-02	Modesty Panel - Replace Right or Left	0.2	0.2	0.2	0.2	0.2	0.2
44-03	Plexiglass Partition - Replace	0.2	0.2	0.2	0.2	0.2	0.2
44-04	Stanchion Foot - Replace	0.2	0.2	0.2	0.2	0.2	0.2
44-05	To Remove & Replace Hand Rails	0.2	0.2	0.2	0.2	0.2	0.2



STANDARD REPAIR TIMES

OPT. NO.	Group 45 - Windows Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
	<b>Side Sash</b>						
45-01	Sash Assembly Standard Split, Aluminum - Remove & Replace (Includes recaulking)	0.5	0.5	0.5	2	0.5	0.5
45-02	Window Assembly, Disassembly And Reassemble With New Parts	0.7	0.7	0.7	0.7	0.7	0.7
45-03	Felt Seal Replacement	0.9	0.9	0.9	0.9	0.9	0.9
45-04	Vinyl window glazing (one Piece) Replace	0.9	0.9	0.9	0.9	0.9	0.9
45-05	Top vinyl seal Replacement	0.9	0.9	0.9	0.9	0.9	0.9
45-06	Glass Replacement	1.1	1.1	1.1	1.1	1.1	1.1
45-07	Latch - Lock Rail - Replace	0.2	0.2	0.2	0.8	0.2	0.2
45-08	Latch - Lock Rail Replace & Remove 95 Model	0.1	0.1	0.1	0.1	0.1	0.1
45-09	Ind.1 Bul. 1 Passenger Window Leak				0.2		
45-10	Ind.1 Bul. 1 Passenger Window Leak.. (Push Out)				0.3		
45-11	Ind.1 Bul. 2 Window Stop Vertical P/O				0.2		
45-12	Ind. 1 Bul 3 JA DAK Horizontal				0.3		
45-13	Ind C2 Index 1 Bul.4 J - Dak Window latch adjustment				0.1		
45-14	Window Stops for Standard Sash (per window)	0.2	0.2	0.2	0.2	0.2	0.2
45-15	Window Stop Sash / P/O To remove & replace (Per Window)	0.2	0.2	0.2	0.2	0.2	0.2
45-16	Ind. 1 Bul. 33 Side Sash Window Gasket Remove & Replace	0.7	0.7	0.7		0.7	0.7
45-17	For installing window Banding For the C2 New Generation PO Window Switch				0.5		
45-18	Upgrade				0.6		
45-19	For C2'S Built After 3/08 Sash Assembly Standard Split Remove & Replace				0.5		
45-20	To R/R Transit Style Sash	1	1	1			1
45-21	Ind. C2 1 Bul.13 Window Latch Enclosure Replacement (Per Latch Kit)				0.8		
45-22	To Remove and Replace Felt Seal				0.7		



Driver's Sash							
45-50	Driver's Sash, Standard or Storm - Remove & Replace	0.5	0.5	0.5	1.5	0.5	0.5
45-51	Window Assembly - Disassemble & Reassemble	0.7	0.7	0.7	0.9	0.7	0.7
45-52	Channel One Piece Rubber Glazing - Replacement	0.9	0.9	0.9	2.1	0.9	0.9
45-53	Glass Replacement	0.9	0.9	0.9	2.1	0.9	0.9
45-54	Remove and Replace latch	0.4	0.4	0.4	0.3		0.4
45-55	Index 1 Bul.32 Special Drivers Storm Window Extrusion	0.9	0.9	0.9			0.9
45-56	Ind. C2 1 Bul 5 Sealing Driver's Window				0.1		
45-57	For C2's Only on Units Built After Body # 662283 To R&R Driver's Window				0.5		
45-58	Ind. C2 1 Bul. 9 1 piece Driver's Window Replacement				2		



STANDARD REPAIR TIMES

OPT. NO.	Group 45 - Windows Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
	<b>Pushout Sash</b>						
45-100	Sash Assembly, Pushout - Remove & Replace (Includes Resealing)	0.5	0.5	0.5	2	0.5	0.5
45-101	Warning Buzzer Switch- Replace	0.2	0.2	0.2	0.3	0.2	0.2
45-102	Latch - Lock Rail - Replace	0.2	0.2	0.2	0.1	0.2	0.2
45-103	Remove and Replace latch bar spring				0.2		
45-104	Ind. Bul. 29 Rear Emerg. PO wind. Handle	0.4	0.4				
45-105	Ind. C2 1Bul. 6A Retainer Clip Installation <b>per Vehicle</b>				0.2		
45-106	Vertical PO Seal Repair				0.3		
45-107	Release Handle To R & R Vertical Push out Window	0.2	0.2	0.2	0.2	0.2	0.2
45-108	Index SS C2 1 Bul. 7 New Generation P/O Switch Upgrade				0.6		
45-109	For C2's Built After 3/08 Sash Assembly Push out Remove & Replace				0.5		
45-110	To R & R the Rear escape Hatch / Handle	1	1				
	<b>Windshield</b>						
45-150	Windshield Glass - Replace & Reseal	2	1	0.7	2	0.7	0.7
45-151	Windshield Glass to Rubber Seal - Remove & Replace			2.3			2.3
45-152	Windshield Side Glass (4 Piece) - Remove & Replace						0.3
45-153	California Stationary Glass Banding	1			1		
45-154	Ind. 1 Bul 34 Transit Egress Window Step 1	0.2	0.2	0.2	0.2	0.2	0.2
45-155	Ind. 1 Bul 34 Transit Egress Window Step 2	0.5	0.5	0.5	0.5	0.5	0.5
45-156	Ind.1 Bul 34 Transit Egress Window Step 3	0.5	0.5	0.5	0.5	0.5	0.5
45-157	Ind. 1 Bul 34 Transit Egress Window Step 4	0.2	0.2	0.2	0.2	0.2	0.2
45-158	California Glass, Entrance Door (Per Side)				0.3		
	<b>Entrance Door Glass</b>						
45-200	Door Glass - Upper or Lower with Rubber Seal - Replace			0.2	0.5	0.1	0.2
45-201	Entrance Door Glass Full Length (Per Leaf)	1	1	1	1		
45-202	AG 2 Doors To Remove & Replace Entrance Door Glass (Per Glass)				0.9		
	<b>Rear or Side Door</b>						
45-250	Door Glass - Upper or Lower with Rubber Seal - Replace	0.2	0.2	0.2	1	0.2	0.2
45-251	Ind. 1 Bul. 28- Switch Mod. P. Out Wind. Rear Emer.	0.2	0.2				
45-252	Remove C-2 Rear Emergency Thermo Glass (upper & Lower)				1.1		
	<b>Stationary</b>						
45-300	Rear Glass and Rubber Seal - Replace	0.2	0.2	0.2	0.2	0.2	0.2
45-301	"D" Window Glass	0.5	0.5	0.5	1	0.8	
45-302	Index C2 1 Bul. 7D Windows trim Installation				0.5		
45-400	Index 1 Bulletin 26 Vibrating + 10 Windows			0.3		0.3	



**STANDARD REPAIR TIMES**

OPT. NO.	Group 46 - Barriers & Seats Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
<b>Barriers</b>							
46-01	Barrier Assembly Complete - Remove & Replace	0.5	0.5	0.5	0.5	0.5	0.5
46-02	Barrier Cover - Remove & Replace (With Barrier Installed)	0.4	0.4	0.4	0.4	0.4	0.4
46-03	Barrier Cover, Foam Pad or Plywood - Remove & Replace (With Barrier Installed)	0.5	0.5	0.5	0.5	0.5	0.5
46-04	Barrier Modesty Panel - Remove & Replace	0.2	0.2	0.2	0.2	0.2	0.2
46-05	Track Seating To Remove & Replace	0.2	0.2	0.2	0.2	0.2	0.2
<b>Seats - FMVSS and NEA</b>							
46-50	Seat Assembly - Remove & Replace (Includes Cushion Removal)	0.4	0.4	0.4	0.4	0.4	0.4
46-51	Seat Cushion Cover - Remove & Replace (Includes Cushion Removal)	0.5	0.5	0.5	0.5	0.5	0.5
46-52	Seat Back Cover - Remove & Replace (With Seat Installed)	0.4	0.4	0.4	0.4	0.4	0.4
46-53	Seat Back Cover, Foam, or Plywood - Remove & Replace (With Seat Installed)	0.5	0.5	0.5	0.5	0.5	0.5
46-54	Seat Cushion Clip Assembly, Rear - Replace (Includes Cushion Removal)	0.2	0.2	0.2	0.2	0.2	0.2
46-55	Seat Cushion to Frame Attaching Clip, Front - Replace (Includes Cushion Removal)	0.2	0.2	0.2	0.2	0.2	0.2
46-56	Scuff Kick Pad - Replace	0.2	0.2	0.2	0.2	0.2	0.2
46-57	Seat Back Metal (NEA) - Remove & Replace	0.1	0.1	0.1	0.1	0.1	t
46-58	Flip Seat Spring Replacement (PSB Index 10 Bulletin 11)	0.3	0.3	0.3	0.3	0.3	0.3
46-59	For Syntec Seats Admin Time - Completing Data Collection Form (12-029)	0.4	0.4	0.4	0.4	0.4	0.4



STANDARD REPAIR TIMES

Group 46 - Barriers & Seats		MODELS					
OPT. NO.	Operation Name	HD/ HDX	ER	Conv.	C2	Mino.	EF
46-100	Seat Back Assembly - Remove & Replace	0.5	0.5	0.5	0.5	0.5	0.5
46-101	Seat Cushion Assembly - Remove & Replace (Per Cushion)	0.2	0.2	0.2	0.2	0.2	0.2
46-102	Ind. 10 Bul. 13 New Retaining brkt for flip		0.2	0.2			0.2
46-103	Ind. 10 Bul. 15 Flip Seat Cushion Cable mtg tab breaking	0.5	0.5	0.5		0.5	0.5
46-104	Remove & Replace Metal Seat Frame	0.8	0.8	0.8		0.8	0.8
46-105	Ind. 10 Bul. 16 A Thomas Metal Seat Back Repairs	0.8	0.8	0.8		0.8	0.8
	<b>Driver's Seat, Thomas, Deluxe, and Thinline</b>						
46-150	Seat Assembly - Remove & Replace	0.4	0.4	0.4	0.4	0.4	0.4
46-151	Back Assembly - Remove & Replace	0.3	0.3	0.3	0.3	0.3	0.3
46-152	Cover, Back - Remove & Replace	0.7	0.7	0.7	0.7	0.7	0.7
46-153	Cushion Assembly - Remove & Replace	0.2	0.2	0.2	0.2	0.2	0.2
46-154	Cover, Cushion - Remove & Replace	0.5	0.5	0.5	0.5	0.5	0.5
46-155	Slide Adjuster, Right Side or Left Side - Remove & Replace	0.6	0.6	0.6	0.6	0.6	0.6
46-156	Seat Belt Assembly, Housing and Retractor - Remove & Replace	0.2	0.2	0.2	0.2	0.2	0.2
46-157	Pedestal, Standard or Deluxe - Remove & Replace	0.9	0.9.5	0.9	0.9	0.9	0.9
46-158	Tilt Adjuster Assembly - Remove & Replace	0.4	0.4	0.4	0.4	0.4	0.4
46-159	Tilt Base Hinge - Remove & Replace	0.5	0.5	0.5	0.5	0.5	0.5
46-160	Pedestal - Air	0.8	0.8	0.8	0.8		0.8
46-161	Tack Strip only - Per Seat	0.3	0.3	0.3		0.3	0.3



**STANDARD REPAIR TIMES**

Group 46 - Barriers & Seats		MODELS					
OPT. NO.	Operation Name	HD/ HDX	ER	Conv.	C2	Mino.	EF
46-162	Tack Strip & Rivets for Back	0.4	0.4	0.4	0.4	0.4	0.4
46-163	Upholstered back Assembly Removed & Replace	0.8	0.8	0.8	0.8	0.8	0.8
46-164	Seat belt assembly/Restraining belt Passenger- Housing/Retractor Remover and Replace	0.2	0.2	0.2	0.2	0.2	0.2
46-165	To Remove & Replace Intergrated Driver's Seat Belt	1.3	1.3	1.3	1.3	1.3	1.3





STANDARD REPAIR TIMES

OPT. NO.	Group 46 - Barriers & Seats Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
	<b>Thomas/ National Driver's Seat</b>						
46-200	Seat National to R &R (this includes Cover, Base, Belt Bar, to R &R )	0.5	0.5	0.5	0.5	0.5	0.5
46-201	Armrest Cover to R &R	0.4	0.4	0.4	0.4	0.4	0.4
46-202	Armrest To R&R	0.4	0.4	0.4	0.4	0.4	0.4
46-203	Back Assembly To R &R (Disconnect Air Lines to the Seat Back Remove Recline knob; R&R the Seat Back & Armrests if present)	0.5	0.5	0.5	0.5	0.5	0.5
46-204	Cover, Seat, Back, To R&R Remove Arm Rests if Present R&R Cover	0.5	0.5	0.5	0.5	0.5	0.5
46-205	Seat Back Foam to R&R (Remove Armrests if Present Cover, Seat, Back, Bolsters & Back Foam to R&R)	1.1	1.1	1.1	1.1	1.1	1.1
46-206	Cushion Heat Element R&R cushion Cover. Disconnect Heater Wire from TCU (temp control unit ), R&R Heat Element , R&R Back Cover,	1	1	1	1	1	1
46-207	Back Heat Element R&R Back Cover Disconnect Heater form TCU(Temp Control Unit )	0.75	0.75	0.75	0.75	0.75	0.75
46-208	Heater Harness (To R&R Raise the Cushion Do Not Remove Cushion From Lower . Disconnect Cushion Heater Wire & Back Heater Wire from Harness. Connect New Harness to Cushion & Back Heater Wires)	0.3	0.3	0.3	0.3	0.3	0.3
46-209	Heater Switches (To R&R Raise Cushion Do Not Remove Cushion From Lower. Disconnect Harness From Both Switches Than R&R the Switches).	0.3	0.3	0.3	0.3	0.3	0.3
46-210	Lumbar Bag, Seat, Single or Triple To R&R (Remove the Armrests if Present, Disconnect Air Lines To Seat Back and R&R the Lumbar).	0.5	0.5	0.5	0.5	0.5	0.5
46-211	Frame, Seat, Back, (To R&R Back Assembly Cover Seat Back , And Cushion Seat Back Lumbar Back Seat Single or Triple )	1.2	1.2	1.2	1.2	1.2	1.2
46-212	Swivel ( To R&R Air Base in up Postion, Upper Seat Assembly Unbolted at Base and Removed From Cab.)	1.2	1.2	1.2	1.2	1.2	1.2
46-213	Bolsters To R&R 1 Or 2 Bolsters ( Remove Armrest if Present Than R&R Bolsters	0.8	0.8	0.8	0.8	0.8	0.8
46-214	Chugger, Lockout, ( To R&R Flip Cushion Forward than R&R Chugger Lockout)	0.8	0.8	0.8	0.8	0.8	0.8
46-215	Chugger, Assembly to R&R Upper Seat Assembly Unbolted at Base & Removed from Cab Than R&R Chugger).	0.7	0.7	0.7	0.7	0.7	0.7
46-216	Track Kit To R&R Upper Seat Assembly unbolted at Base & Remove from Cab	0.7	0.7	0.7	0.7	0.7	0.7
46-217	Adjuster Cushion Front 3 Position Seat To R&R	0.5	0.5	0.5	0.5	0.5	0.5



**STANDARD REPAIR TIMES**

Group 46 - Barriers & Seats		MODELS					
OPT. NO.	Operation Name	HD/ HDX	ER	Conv.	C2	Mino.	EF
46-218	Adjuster Cushion Front 6 position Seat To R&R	0.6	0.6	0.6	0.6	0.6	0.6
46-219	Adjuster Cushion Front 2 position Seat To R&R	0.4	0.4	0.4	0.4	0.4	0.4
46-220	Ajuster Cushion Rear Seat, Flip Cushion Forward and R&R Rear Cushion Adjuster	0.4	0.4	0.4	0.4	0.4	0.4
46-221	Cushion Seat To R&R Unbolt from Cushion Adjuster and R&R Cushion	0.6	0.6	0.6	0.6	0.6	0.6
46-222	Cushion Cover To R&R Unbolt From Cushion Adjuster And R&R the Cushion Cover	0.7	0.7	0.7	0.7	0.7	0.7
46-223	Air Valves 1 or 2 Seats Disconnect Valve From Airlines and R&R the Valve	0.3	0.3	0.3	0.3	0.3	0.3
46-224	Air Valve 3 to 5 Seat To R&R Disconnect Valve From Airlines and R&R the Valve	0.4	0.4	0.4	0.4	0.4	0.4
46-225	Air Valve 6 Seat to R&R Disconnect Valve from the Airlines and R&R the Valve	0.5	0.5	0.5	0.5	0.5	0.5
46-226	Air Manifold Seat to R&R Disconnect Manifold from Air Valves and Supply Than R&R Manifold	0.3	0.3	0.3	0.3	0.3	0.3
46-227	Air Manifold Seat to R&R Disconnect Manifold from Air Valves and Supply Than R&R Manifold						
46-228	Upper Base Assembly Seat To R&R Belt Bar Skirt Seat; Remove the cover Base, Remove the Airline to Air Spring and Top Mount of the Air Spring Seat Schock at Top Shock Mount Shaft Base. Remove Arm Assembly Upper and Lower Base Seat.	1.5	1.5	1.5	1.5	1.5	1.5
46-229	Air spring Seat To R&R Belt Bar Remove Seat Skirt and Shroud Cover Base seat than R&R the Air Spring	0.8	0.8	0.8	0.8	0.8	0.8
46-230	Lower Base Assembly To R&R Belt Bar Seat the Skirt Seat R7R cover Base Seat R&R Air Line to Air Spring and Top Mount of Air Spring Seat; Shock at Top Shock Mount Shaft Base Seat R/R the Arm Assembly, Upper and Lower Base	1.5	1.5	1.5	1.5	1.5	1.5
46-231	Shock Seat To R&R Skirt Seat Remove the Cover Base Seat and Remove the Shock	0.8	0.8	0.8	0.8	0.8	0.8
46-232	Skirt Seat to Remove Unbolt Track to Base Bolts and Remove the Skirt	0.2	0.2	0.2	0.2	0.2	0.2



46-233	Base Assembly To R&R Belt Bar Remove the Skirt Seat and Remove the Cover Base Seat than R&R the Base	0.8	0.8	0.8	0.8	0.8	0.8
46-234	Cover Base Seat To R&R Remove Attachment Screws and Remove the Base Cover	0.2	0.2	0.2	0.2	0.2	0.2
46-235	Belt Bar Seat To R&R Remove Tethers Remove the Bolts from the Base than Remove the Belt Bar	0.3	0.3	0.3	0.3	0.3	0.3
46-236	Lower Frame Seat To R&R upper seat Assembly Unbolted at the Base and Removed from Cab Back Assembly Seat. Recline Adjuster Assembly Seat. Chugger Lockout Seat, Adjuster Cushion Front 3 Postion Seat. Adjuster Cushion Front 6 postion Seat . Adjuster Cushion Front 2 Postion Seat. Adjuster Cushion Rear seat Cushion Seat. Air Valves 1or 2 Seat, Remove Air Valves 3 to 5 seat Than Remove Air Valves 6 Seat.	1.5	1.5	1.5	1.5	1.5	1.5
46-237	Knob Back Recline Seat To R&R	0.4	0.4	0.4	0.4	0.4	0.4
46-238	Knob Cushion Adjuster To R&R	0.4	0.4	0.4	0.4	0.4	0.4
46-239	Shaft Base Seat To Remove Belt	0.8	0.8	0.8	0.8	0.8	0.8
46-239	Shaft Base Seat To R&R Belt Bar Seat. Remove the Cushion Seat, Remove the Arm Assembly Upper & Lower Base Seat Remove the Skirt Seat Remove the Cover Base Seat	0.8	0.8	0.8	0.8	0.8	0.8



STANDARD REPAIR TIMES

OPT. NO.	Group 52 - Electrical Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Min.	EF
52-01	Light Assembly - Replace	0.2	0.2	0.2	0.2	0.2	0.2
52-02	Light Lens - Replace	0.1	0.1	0.1	0.1	0.1	0.1
52-03	Light Gasket - Replace	0.3	0.3	0.3	0.3	0.3	0.3
<b>Note</b>	Back-up Lights, Stop Lights, Turn Signal Lights, Tail Lights, Marker Lights, Dome Lights, Stepwell Light and Warning Lights will use the above time and operation numbers.						
52-04	Rocker Switch, Lights or Heater Motors - Remove & Replace	0.2	0.2	0.2	0.2	0.2	0.2
52-05	Electrical Junction Block			0.5		0.5	0.5
52-06	Doran Monitor - Remove & Replace	0.5	0.5	0.5	0.2	0.5	0.5
52-07	Troubleshooting the Electrical Circuit	1	1	1	1	1	1
52-08	Circuit Breaker/Fuse Replacement Per 2 Fuses	0.1	0.1	0.1	0.1	0.1	0.1
52-09	Fuse Block, 5 or 15 Gang - Remove & Replace			0.4		0.4	0.4
52-10	Contact or Bosch Relay- Remove & Replace	0.1	0.1	0.1	0.1	0.1	0.1
52-11	Flasher, Weldon - Remove & Replace	0.2	0.2	0.2		0.2	0.2
52-12	PC Board Remove & Replace	1				1	
52-13	Electric Door Switch	0.5	0.5	0.5	0.1	0.5	0.5
52-14	PSB Index 5 Bulletin 7, Rocker Switches Not seating Properly		0.2	0.2		0.2	0.2
52-15	Heater Resister Remove & Replace		0.2				
52-16	Inspection of Electrical wiring above Driver's Window PSB Index 5 Bulletin			0.2			
52-17	Troubleshooting with the Service Link (no Longer In Use)						
52-18	Remove and replace switch hub module (SHM)				1		
52-19	Remove and replace warning light Visor	0.1	0.1	0.1	0.1	0.1	0.1
52-20	Ind.5 Bul.12 Safety start interlock switch brkt.		0.5				
52-21	Remove and replace and re-pin harness connector				0.4		
52-22	Remove and replace eight switch bank (8SB)				0.3		
52-23	Ind. 5 Bul. 19 Protective Cover	0.5		0.5			0.5
52-24	Remove and replace cab power distribution module (PDM)				0.8		
52-25	Repair main body Harness	0.5	0.5	0.5	0.5	0.5	0.5
52-26	Strobe Light Guard Remove & Replace	0.5	0.5	0.5	0.5	0.5	0.5
52-28	Index C2 7 Bul. 1 leaking Weldon Warning (per lights)				1		
52-29	Back up Alarm Remove & replace	0.3	0.3	0.3	0.3	0.3	0.3
52-30	Index C2 5 Bul 4 Switch Bank Gel Pac Gasket C2				0.5		
52-31	Index 5 Bul 21 Relocation of Access Panel Courtesy Light	0.3		0.3			0.3
52-32	To Remove & Replace the Warning Light Visors. C2 units built prior to body # 964210				0.6		
52-33	Ind. 5 Bul. 24 Elec. Panel/PC Board Securement inspec and install					0.2	
52-34	Index C2 5 Bul. 7 Switch Hub Module Repositioning				1		
52-35	Index C2 5 Bul. 8 Removal of Switch Banks Harness				0.5		
52-36	Index C2 5 Bul. 9 PDM Power & Ground Cable Routing Improvement				1		
52-37	No Defect Found Diagnostic Time ( 1 year from in service date)	1	1	1	1	1	1
52-38	Head Light Adjustment for the C2				0.3		
52-39	PSB C2 5-9R4 For Units Built After 768212				1.7		
52-40	Index 5 Bul 1 Remote Mirror Fusing	0.5	0.5	0.5			0.5
52-41	To R & R Driver's Alert Sign.	0.8	0.8	0.8	0.8	0.8	0.8
52-42	Bonded Lights on C2 Units Built Prior To Body # 964210				0.7		
52-43	Ind. C2 5 Bul. 10 Side Directional /Marker Lights				0.3		
52-44	Dome Light Routing for Minotours					1	
52-45	Index 5 Bul 25 ametek instrument cluster software update.	0.2					0.2



STANDARD REPAIR TIMES

OPT. NO.	Group 53 - Front Exterior Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
53-01	Front End Cap/Hood To Remove & Replace	20	20				
53-02	Front Bumper Assembly, Shell - Remove & Replace (Includes Painting & Refinishing)	1.5	1.5	1	1		1
53-03	Front Bumper Assembly, Help - Remove & Replace					0.8	
53-04	Tow Eyes - Remove & Replace	0.5	0.5	0.2	0.2		0.3
53-05	Headlight Assembly - Remove & Replace (Includes Realignment)	0.4	0.4				0.4
53-06	Front Center Sheet - Remove & Replace (Includes 53-01) <b>(needs study)</b>						
53-07	Destination Sign Glass - Remove & Replace	0.3	0.3	0.3	1	0.3	0.3
53-08	Pull Handle, Windsheield Cleaning - Remove & Replace	0.2	0.2	0.2	0.2		0.2
53-09	Wiper Motor, Air or Electric - Remove & Replace (Includes Removing Wiper Arm)	0.5	0.5	1			0.3
53-10	Wiper Control Valve - Remove & Replace	0.2	0.2	0.2			0.2
53-11	Washer Switch - Remove & Replace	0.3	0.3	0.2	0.1		0.3
53-12	Washer Nozzle - Remove & Replace	0.2	0.2	0.2	0.2		0.1
53-13	Washer Reservoir Pump - Remove & Replace	0.2	0.2	0.2			0.2
53-14	Pilot Light - Remove & Replace	0.2	0.2	0.2			0.2
53-15	Wiper Controls, Intermittent - Remove & Replace	0.3	0.3	0.3			0.2
53-16	Intermittent Wiper Control Replacement (PSB Index 1 Bulletin 22)			0.3			
53-17	Remove & Replace Wiper Blade Asm.	0.2	0.2	0.2	0.2		0.2
53-18	Ind. 1 Bull. 25 W/S Wiper linkage interference mtd above w/s			1.5			
53-19	Ind. 13 Bull. 29 Cowl Trim to Fender Extension			1			
53-20	Ind. 1 Bull. 25 W/S Wiper Linkage			2.5			
53-21	<b>not in use</b>						



STANDARD REPAIR TIMES

OPT. NO.	Group 53 - Front Exterior Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
53-22	Ind. 13 Bull. 32 Heat Shield Bracket Vibration		0.5				
53-23	<b>not in use</b>						
53-24	Ind. 13 Bull. 35 Hood Brace			0.3			
53-25	Ind. 4 Bull. 9 Header Repair # 2					5	
53-26	Ind. 4 Bull. 9 Header Repair # 1					0.5	
53-28	Ind. C2 14 Bul. 3 Black eyes Conversion				0.1		
53-29	Index 14 Bul. 9 Folding Step Adaptor Bracket	0.3					
53-30	Ind. C2 14 Bul.8 Quarter Fender Fix				0.2		
53-31	Install Angle On Fit Electrical Panel	0.7					
53-32	To Repair Front End Cap / Hood Warning Light Area. <b>(Per Side)</b>	7	7				
53-33	To Repair Mid Section of Front End Cap Hood	5	5				
53-34	To Adjust the Hood on C2's During PDI Only				0.5		
53-35	To Install front School Bus Decal Overlay				0.3		



STANDARD REPAIR TIMES

OPT. NO.	Group 54 - Side Exterior Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
54-01	Motor for Power Ventilator - Remove & Replace	0.5	0.5	0.5		0.5	0.5
54-02	Roof Static Ventilator - Remove & Replace (Includes Painting)	0.5	0.5	0.5		0.5	0.5
54-03	Drip Molding Trim End, Front (Each) - Remove & Replace	0.2	0.2	0.2		0.2	0.2
54-04	Panel, Rear Air Intake - Remove & Replace (Includes Painting & Refinishing)	1.5	1.5				
54-05	Side Panel Below Engine Access Door - Remove & Replace (Includes Painting & Refinishing)	1	1				
54-06	Pilaster - Remove & Replace (Includes Painting & Refinishing)	0.7	0.7	0.7	2.5	0.7	0.7
54-07	Fuel Door Assembly - Remove & Replace (Includes Painting)	0.3	0.3	0.3	0.3	0.3	0.3
54-08	Fuel Hole Trim Ring - Remove & Replace	0.1	0.1	0.1	0.1	0.1	0.1
54-09	Exterior Compartment Locks /Latches Remove & Replace (Fuel Door Lock Assembly)	0.1	0.1	0.1	0.1	0.1	0.1
54-10	Fender (Each) - Remove & Replace Includes Painting & Refinishing (Includes 54-37)			0.8	2.9	0.8	
54-11	Reflector - Remove & Replace	0.1	0.1	0.1	0.1	0.1	0.1
54-12	Radiator Fill/ Power Steering Access Door Assembly - Remove & Replace (Includes Painting & Refinishing)	0.5	0.5				0.5
54-13	Recirculating Shields, Radiator - Remove & Replace	0.5	0.5				0.3
54-14	Side Emergency Door or Lift Door - Remove & Replace (Includes Painting & Refinishing).	4.5	4.5	4.5	3	4.5	4.5
54-16	Hinge - Greaseable, Side Emerg. Door - Remove & Replace (Includes Painting & Refinishing).	1	1	1	0.2	1	1
54-17	Door, Electrical Panel Access - Remove & Replace (Includes Painting & Refinishing)	1	1	1			1



STANDARD REPAIR TIMES

OPT. NO.	Group 54 - Side Exterior Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
54-18	Battery Box Door - Remove & Replace	0.7	0.7	0.7	0.5	0.7	0.7
54-19	Battery Box Slide Tray - Remove & Replace	0.7	0.7	0.7		0.7	0.7
54-20	Hold Down Angle and Rods - Remove & Replace	0.2	0.2	0.2		0.2	0.2
54-21	Latch, Tray Hold in Handle - Remove & Replace	0.2	0.2	0.2		0.2	0.2
54-22	Ind. 2 Bul. 34 Engine Vent Door Stop Damaging Charge Air Cooler (TL960 .8)						
54-23	Ind. 4 Bul. 8 Air Plenum Box Splitting		0.8				
54-24	Ind. 8 Bul. 1R Flettner Ventilator System	1	1	1		1	1
54-25	Ind. 4 Bul. 10 Air Inlet Panel Cracks	0.4	0.4				
54-26	Ind.4 Bul. 11 Lower Rear Panel Repair					6	
54-27	Ind. 2 Bul. 2 Lower Skirt Access Comp. Water Leaks. ( Luggage Box)				0.4		
54-28	Ind. 2 Bul 2 Lower Skirt (A/C) Access Comp. Water Leaks				0.2		
54-29	Remove And Replace the End Caps (Includes Paint)				0.1		
54-30	Remove & Replace Rub rail per window section. This does not include pain	0.1				0.1	0.1
54-31	Index 3. Bul 14 Battery Box Reinforcement / Tray Replacement		1				1
54-32	To Remove & Relpace Fenderette Steel / Rubber	0.8	0.8	0.8	0.8	0.8	0.8
54-33	Ind. SSC Bul. 9 Battery Box Door Reinforcement				0.5		
54-34	PSB 3-14 Battery Box Reinforcement For the Side Sheet Replacement (Per Sheet to R/R).	1					
54-35	To Remove & Replace Battery Box Includes Door & Tray Assembly	1.5	1.5	1.5	4	1.5	1.5
54-36	To R & R C2 Fender	3	3	3		3	3
54-37					0.5		





STANDARD REPAIR TIMES

OPT.	Group 55 - Rear Exterior Operation Name	MODELS					
		HD/	ER	Conv.	C2	Mino.	EF
55-01	Mud Flap - Remove & Replace	0.3	0.3	0.3	0.3	0.3	0.3
55-02	Mud Flap, Full Width - Remove & Replace	0.8	0.8	0.8	0.8		0.8
55-03	Engine Compartment Door - Remove & Replace, Includes Transferring Lights & Hinge / Hardware	2	2				
55-04	Engine Compartment Door Hinge - Remove & Replace (Includes Painting & Refinishing)	1	1				
55-05	Rear Escape Hatch - Remove and Replace	2	2				
55-06	Rear Escape Hatch Seal - Remove & Replace	0.5					
55-07	Rear Escape Hatch Hinge - Remove & Replace	1					
55-08	Rear Escape Hatch Handle - Remove & Replace	0.3					
55-09	Thomas Nameplate - Remove & Replace	0.2	0.2	0.2	0.2	0.2	0.2
55-10	Rear Bumper Assembly - Remove & Replace	0.5	0.51	0.5	0.5	0.5	0.5
55-11	Rear Bumper Trim - Remove & Replace (Includes Painting & Refinishing)	0.3	0.3	0.3	0.3	0.3	0.3
55-12	Trim End Zee - Remove & Replace	0.3	0.3	0.3	0.3	0.3	0.3
55-13	Rear Bumper Assembly, Help - Remove & Replace	0.8	0.8	0.8	0.8		0.8
55-14	<b>Not In Use</b>						
55-15	To Remove & Replace The Front Wheelhouse Extensions on the Minotours (Per Unit)						0.3
55-16	To Install Rear School Bus Decal Overlay				0.3		
55-17	Mud Flap Brace R/R Protector From DPF to .3 HDX Only	0.3					



STANDARD REPAIR TIMES

OPT. NO.	Group 56 - Roof Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
56-01	Roof Escape Hatch Lid ( <b>Specialty</b> )	0.2	0.2	0.2	0.2	0.2	0.2
56-02	Roof Escape Hatch Rubber Gasket ( <b>Specialty</b> )	0.1	0.1	0.1	0.1	0.1	0.1
56-03	Rubber Gasket - Remove & Replace	0.1	0.1	0.1	0.1	0.1	0.1
56-04	Roof Escape Hatch Assembly (Transpec) R & R Change Gasket	1.1	1.1	1.1	1.1	1.1	1.1
56-05	Handle & Base Assembly (Transpec) - Removes & Replace	0.3	0.3	0.3	0.3	0.3	0.3
56-06	Release Handle Shield - Remove & Replace	0.2	0.2	0.2	0.2	0.2	0.2
56-07	Release Hinge with Alarm Switch - Remove & Replace	0.3	0.3	0.3	0.3	0.3	0.3
56-08	Sealing Gasket - Remove & Replace	0.1	0.1	0.1	0.1	0.1	0.1
56-09	Mirco Switch ( <b>Specialty</b> )	0.2	0.2	0.2	0.2	0.2	0.2
56-10	Roof Sheets R & R	7	7	7	7	7	7
56-11	Remove & Replace Roof Hatch Assembly ( <b>Specialty</b> )	1	1	1	1	1	1
56-12	Index C2 4 Bul. 1 Sealing Bulkhead / Roof Areas				1		



STANDARD REPAIR TIMES

Group 60 - Interior		MODELS					
OPT. NO.	Operation Name	HD/ HDX	ER	Conv.	C2	Mino.	EF
<b>Upper Driver's Area</b>							
60-01	Plexiglass Sun Visor - Remove & Replace	0.2	0.2	0.2	0.2	0.2	0.2
<b>Interior Side Panel</b>							
60-20					5		
60-21	To R & R Padded Shoulder Rail	0.3	0.3	0.3	0.3	0.3	0.3
<b>Driver's Area</b>							
60-50	Instrument Panel Cover, L.S. or R.S. - Remove & Replace	1	0.4	0.4	0.4		0.5
60-51	Instrument Panel Cover, Centerface Plate R & R	2	2	2	2	2	1.5
60-52	Floor Covering, Driver's Area and Driver's Island Trim - Remove & Replace ( Includes Removal of Driver's Seat)	1.2	1.2	1.2	1		1
60-53	Kick Panel Assembly, Right Side of Column Remove & Replace			0.3	0.5		
60-54	Defroster Channel, Each Side - Remove & Replace ( includes Center Trim )	0.8	0.4	0.4	0.5		0.5
60-55	Remove & Replace Lower Switch Cabinet				0.5		
60-56	Remove & Replace Access Panel				0.1		
<b>Upper Door Area</b>							
60-100	Access Panel, Door Mechanism Compartment - Remove & Replace (Includes Door Pad)	0.3	0.3	0.3	0.2	0.3	0.3
60-101	Hinged Access Panel, Door Mechanism Compartment - Remove & Replace (Includes Door Pad)	0.1	0.1	0.1		0.1	0.1
60-102	Upper Door Post Trim - Remove & Replace	0.3	0.3	0.3		0.3	0.3
60-103	Access Door, Front Hood with Hinge and Hardware - Remove & Replace ( Based on a Painted Door )	1	1	1		1	1
60-104	Door Latch, Front Hood Assembly - Remove & Replace.	0.2	0.2	0.2		0.2	0.2
60-105	Front Header Bulkhead Trim				1.7	1.7	



STANDARD REPAIR TIMES

OPT. NO.	Group 60 - Interior Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
	<b>Door Area</b>						
60-150	Inner Capping, Main Body Door Post - Remove & Replace	0.8	0.8	0.8		0.8	0.8
60-151	Rubber Tread, All Steps, Outward Opening or Jackknife Door - Remove & Replace (Per Step)	0.5	0.5	0.5	0.5	0.5	0.5
60-152	Step Trim - Remove & Replace	0.5	0.5	0.5	0.5	0.5	0.5
60-153	Index C2 14 Bul. 5 Folding Step Inp. (Per Step)				0.3		
	<b>Rear</b>						
60-200	Floor Covering, Smooth - Remove & Replace (Per Foot) ( Includes Isle Strip, Molding , and the Removal Of Seats and Heaters)	0.6	0.6	0.6	0.6	0.6	0.6
60-201	Floor Covering, Rib - Remove & Replace (Per Foot )( Includes aisle Strip and Molding)	0.2	0.2	0.2	0.2	0.2	0.2
60-202	Wheelhouse Covering Molding and Trim Cap - Remove & Replace	0.2	0.2	0.5	0.2	0.2	0.2
60-203	Wheelhouse Covering - Remove & Replace	0.2	0.5	0.2	0.5	0.5	0.5
60-204	Cover Strip - Remove & Replace	0.2	0.2	0.2	0.2	0.2	0.2
60-205	Headlining, Standard or Acoustical - Remove & Replace (Per Sheet) (Includes Removal of Window Header Molding & Refinishing)	1	1	1	2	1	1
60-206	Window Header Molding, Curtain Rail - Remove & Replace (Per Section)	0.3	0.3	0.3	0.2	0.3	0.3
60-207	Shoe Molding, Zinc Coated Steel - Remove & Replace (Per Foot)	0.1	0.1	0.1	0.1	0.1	0.1
60-208	Heater Hose Cover, Davenport - Remove & Replace	0.3	0.3				
60-209	Heater Hose Cover, Rear, Wheelhouse to Davenport - Remove & Replace (With Seats Installed)	0.2	0.2				
60-210	Heater Hose Cover, over the wheelhouse to remove & replace (with seats installed)	0.5	0.5	0.5	0.5	0.5	0.5
60-211	Heater Hose Cover - Standard (per Section)	0.2	0.2	0.2	0.2	0.2	0.2
60-212	Ind. C2 9 Bul. 2 curtain box securemen				1.5		
60-213	Ind. C2 9 Bul. 3 Bulkhead Access. Track Bar				1.2		
60-214	To Remove & Replace Plywood Replacement Per Section	2	2	2	2	2	2
60-215	To Remove & Replace Seat Tracking In Floor (Per Foot)	0.2	0.2	0.2	0.2	0.2	0.2
60-216	Index C2 9 Bul. 5 Driver's Access. Tray Improvement				0.7		



**STANDARD REPAIR TIMES**

		MODELS					
<b>Rear Escape Hatch</b>		HDX	ER	CONV	C2	MINO	EF
60-250	Cylinder, Rear Escape Hatch - Remove & Replace (Includes Ball Studs and Safety Retainer Clip)	0.3	0.3				
60-251	Upper or lower Bracket, Gas Spring - Remove & Replace	1	1				
60-252	Lock Assembly and Spacer Shim - Remove & Replace	0.5	0.5				
<b>Engine Cover</b>							
60-300	Engine Cover - Remove & Replace (Includes Transfer of Hardware )						0.5
60-301	Engine Cover Latches - Remove & Replace						0.3
60-302	Engine Cover Door - Remove & Replace						0.3
60-303	Seal Engine Cover - Remove & Replace						0.3
60-304	Insulation - Engine Cover Remove & Replace						0.3
60-305	Ind 3 Bul. 12 Engine Cover Hardware Improvement						1
<b>Under the passenger Window Area</b>							
60-400	To Remove & Replace Interior Side Panel (Per Sheet) Includes R/R the Seats.	3.8	3.8	3.8	3.8	3.8	3.8



STANDARD REPAIR TIMES

Group 64 - Doors		MODELS					
OPT. NO.	Operation Name	HD/ HDX	ER	Conv.	C2	Mino.	EF
<b>Outward Opening Doors</b>							
64-01	Front Leaf, Door Assembly, Shell Only, - Remove & Replace (Includes 45-200, 64-03, 64-05)	2.5	2.5	2.5	2.5	2.5	2.5
64-02	Rear Leaf, Door Assembly, Shell Only, - Remove & Replace (Includes 45-200, 64-03, 64-05, 64-07)	2.5	2.5	2.5	2.5	2.5	2.5
64-03	Rubber Cushion, Entrance Door - Remove & Replace	0.3	0.3	0.3	0.3	0.3	0.3
64-04	Door Hinge, Greaseable Assembly - Remove & Replace (Includes Trim Panel and Barrier Removal & Replacement)	2	2	2	2	2	2
64-05	Rubber Seal, Door Hinge - Remove & Replace	0.5	0.5	0.4	0.5	0.4	0.4
64-06	Rubber Seal, Door Header with Insert - Remove & Replace	0.2	0.2	0.2	0.2	0.2	0.2
64-07	Finger Guard, Over Hinge with Strip and Angle - Remove & Replace	1	1	1	1	1	1
64-08	Ind. 2 Bul. 33 Improper Ent. Door Seal at Header		0.2	0.2			
64-09	IND. 2 Bul. 35 Air Operated O/O Door Linkage		0.3	0.3			0.3
64-10	In. 2 Bul. 46 Door Seal Installation Improvement	0.5	0.5				
64-11	Exterior Keyswitch Remove & Replace				0.1		
64-12	Ind. 2 Bul. 39 Aluminum Rear Engine Door		1				
64-13	In. 2 Bul. 48 Alum. Ent. Door Fastener Improvement	1.5	1.5				
64-14	To Remove and Replace an AG 2 Door Leaf on a C2 (Per Door Leaf)				1		
<b>Outward Opening Door Control</b>							
64-50	Manual Door Control Control Handle - Remove & Replace			0.2	0.2	0.2	0.2
64-51	Yoke, Door Control Mechanism - Remove & Replace (Includes Door Adjustment)			0.2	0.2	0.2	0.2
64-52	Bracket, Door Control Control Mechanism - Remove & Replace			0.2	0.2	0.2	0.2
64-53	Door Control Rod - Remove & Replace (Includes Door Adjustment)			0.2	0.2	0.2	0.2
64-54	End Bearing, Spherical - Remove & Replace (Includes Door Adjustment)			0.2	0.2	0.2	0.2
64-55	Stud, Door Control Handle - Remove & Replace			0.2	0.2	0.2	0.2
64-56	Rod, Overhead Door Mechanism (Includes 60-100)			0.6	0.6	0.6	0.6



STANDARD REPAIR TIMES

OPT. NO.	Group 64 - Doors Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
64-57	Yoke, Overhead Door Mechanism (Includes 60-100)			0.5		0.5	0.5
64-58	Cam, Front or Rear, Overhead Door Mechanism (Includes 60-100)			0.4		0.4	0.4
	<b>Air Operated Outward Opening or Jackknife Door</b> (64-100 Through 64-109 Including 60-100)						
64-100	Air Door Restrictor, Release Valve and / or Slow Start Valve - Remove & Replace	0.4	0.4	0.4	0.4		0.4
64-101	Rear Mount, Door Cylinder - Remove & Replace	0.5	0.5	0.5	0.5		0.5
64-102	Air Door Cylinder & Actuator - Remove & Replace (Includes Removing of Cover & Adjustment)	0.9	0.9	0.9	0.9		0.9
64-103	Straight Yoke, 5/8"-18 - Remove & Replace	0.5	0.5	0.5	0.5		0.5
64-104	Adjustable Yoke - Remove & Replace	0.5	0.5	0.5	0.5		0.5
64-105	Overhead Rod, Door Control - Remove & Replace (Includes 64-104 & 60 100)	0.5	0.5	0.5	0.5		0.5
64-106	Air Pressure Regulator & Door Solenoid - Remove & Replace	0.6	0.6	0.6	0.6		0.6
64-107	Control Valve - Remove & Replace	0.3	0.3	0.3	0.3		0.5
64-108	Three Way Emergency Valve - Remove & Replace	0.3	0.3	0.3	0.3		0.3
64-109	Pivot Bracket, Air Operated Jackknife Door Remove / Replace	0.5	0.5	0.5	0.5		0.5
64-110	Camozzi Valve Handle	0.1	0.1	0.1	0.1		0.1
64-111	End Bearing, Spherical - Remove & Replace (Includes Door Adjustment)	0.2	0.2	0.2	0.2		0.2
64-112	Stud Door Hex Shaft To Remove & Replace	1.5		1.5	1.5		
64-113	Ind. C2 2 Bul-13 For improved Air Door Operation				1.6		
64-114	Ind. C2 2 Bul-14 Manual Vandalock Installation				0.7		
64-115	Changing Electric Door to Air Door				9.2		
64-116	Index C2 2 Bul. 17 Electric Door Mech. Retrofit				2		
64-117	Ind. C2 2Bul. 19 AG 2 Electric Door Level Improvement				0.4		
64-118	To R&R Pivot Block AG2 Door In Conjunction With 64-14				1.5		



STANDARD REPAIR TIMES

OPT. NO.	Group 64 - Doors Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
	<b>Electric Operated Outward Opening Door</b>						
64-125	Electric Door Actuator - Remove & Replace		0.4	0.4	1	0.4	0.4
64-126	Electric Actuator Yoke - Remove & Replace		0.2	0.2	0.2	0.2	0.2
64-127	Electric Actuator Pivot Bracket - Remove & Replace		0.3	0.3	0.3	0.3	0.3
64-128	Electric Door Control Switch - Remove & Replace		0.3	0.3	0.3	0.3	0.3
64-129	Emergency Release Handle - Remove & Replace		0.2	0.2	0.2	0.2	0.2
64-130	Air Operated Outward Open Entrance Door	0.5	0.5	0.5	0.5		0.5
64-131	Ind. 2 Bul 40R Start Press Reduction		0.3	0.3			0.3
64-132	Index 2 Bul. 49 Door Actuator Inpt. Header Repair					1.4	
64-133	Index C2 5 Bul. 6 Air Door W/Elec. Ext Door Control Improvement				0.7		
64-134	Index cC2 02-12 AG 2 Door Leaf Bracket				0.5		
64-135	Ind. SS C2 2 Bul. 3R AG2 Door Pivot Bk repair methods				0.6		
64-136	Ind. SS C2 2 Bul. 11 ft. Lift/suicide Door Vandolock Per Door				1		
64-137	Ind. SS C2 Bul. 12 AG2 Elec. Door Retrofit				9		
64-138	Lower Seal Modification Retrofit on Pre-AG2 Doors				2		
64-139	Air Door Diagnostic	0.5	0.5	0.5	0.5	0.5	0.5





STANDARD REPAIR TIMES

OPT. NO.	Group 64 - Doors Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
<b>Jackknife Doors</b>							
64-150	Rear Leaf, Jackknife Door Assembly, Shell Only - Remove & Replace Includes Paint & Refinish			2			2
64-151	Front Leaf, Jackknife Door Assembly, Shell Only - Remove & Replace Includes Paint & Refinish			6			6
64-152	Greaseable Center Hinge Assembly, Jackknife Door - Remove & Replace			0.2			0.2
64-153	Greaseable Door Hinge Assembly, Jackknife Door - Remove & Replace			1.7			1.7
64-154	Rubber Cushion, Entrance Door - Remove & Replace			0.3			0.3
64-155	Rubber Seal, Door Center - Remove & Replace			0.2			0.2
64-156	Camroll Bearing - Remove & Replace			0.2			0.2
64-157	Rubber Seal, Top of Door with Retainer - Remove & Replace			0.2			0.2
64-158	Rubber Seal, Bottom - Remove & Replace			0.2			0.2
<b>Jackknife Door Control</b>							
64-200	Arm Stud, Door Control with Spacer Remove & Replace		0.2	0.2			0.2
64-201	End Bearing, Spherical - Remove & Replace		0.2	0.2			0.2
64-202	Door Control Rod - Remove & Replace		0.3	0.3			0.3
64-203	Door Control Yoke - Remove & Replace		0.2	0.2			0.2
64-204	Bracket, Door Control Mechanism - Remove & Replace		0.2	0.2			0.2
64-205	Ind. 2 Bul. 31 Manual J/K Door Hard to close						1.3
64-206	Ind. 2 Bul. 38 Manual J/K Door Hinge replacement			2			2



STANDARD REPAIR TIMES

OPT. NO.	Group 64 - Doors Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
<b>Emergency And Lift Door</b>							
64-250	Rear or Side Emergency Door Shell Includes Refinishing.	4.5	4.5	4.5	4.5	4.5	4.5
64-251	Door Hinge, Emergency, Greaseable Assembly - Remove & Replace	1	1	1	0.3	1	1
64-252	Lock Emergency Door Assembly - Remove & Replace	0.5	0.5	0.5	0.5	0.5	0.5
64-253	Handle, Emergency Door Assembly - Remove & Replace	0.3	0.3	0.3	0.3	0.3	0.3
64-254	Hinge Strap, Door Stop - Remove & Replace	0.2	0.2	0.2	0.2	0.2	0.2
64-255	Passenger Buzzer Switch - Remove & Replace (Includes Removal of Cover)	0.2	0.2	0.2	0.2	0.2	0.2
64-256	Door Header Pad - Remove & Replace	0.3	0.3	0.3	0.3	0.3	0.3
64-257	Seal Rubber Door	1	1	1	1	1	1
64-258	Replace Prop Rod	0.2	0.2	0.2	0.2	0.2	0.2
64-259	Lock Emergency Door - 3 Point, Remove & Replace	0.4	0.4	0.4	0.4	0.4	0.4
64-260	Ind. 2 Bul. 1 Emerg. / Lift Door Seal Retrofit				0.5		
64-261	Ind. C2 2 at Bul 6 Rear Vandolock w/opt. Interlock				0.7		
64-262	Index C2 2 Bul. 8 Keyswitch Flip Cover Entrance Door				0.3		
64-300	<b>not in use</b>						
64-301	Trim Around Exit & Lift Doors	1	1	1	1	1	1
64-302	Ind. C2 2 Bul 5 Entrance Door Gap at step Tread.				0.4		
64-303	Emergency Door Release Cable (same as Vandalock) to R&R (Minotour Units this Includes R&R of Parts To Access Cable)				1	4.5	
64-304	Vandalock to Remove and Replace	0.5	0.5	0.5	0.5	0.5	0.5
64-305	Index C2 2 Bul. 9 AG 2 Door Rattle				0.3		
64-306	Ind SS C2 2 Bul. 8 Vandalock Interlock Door Switch Replacement				0.2		
64-307	For Painted Emergency Door C2				0.5		
64-500	Fixing AG2 Entrance Door Vandalock Rattle				0.5		



STANDARD REPAIR TIMES

OPT. NO.	Group 65 - Accessories Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
	<b>Mirrors</b>						
65-01	Mirror Assembly - Remove & Replace	1.2	1	1	1	1	1
65-02	Crossview Brace & Bracket - Remove & Replace	0.2	0.2	0.3	0.4	0.3	0.2
65-03	Mirror Bracket, Exterior Assembly - Remove & Replace	0.3	0.3	0.3	0.3	0.3	0.3
65-04	<b>Not in Use</b>						
65-05	Heated Mirror Switch - Remove & Replace	0.2	0.2	0.2	0.2	0.2	0.2
65-06	Ind. 14 Bul. 4 Mirrorlite Crossview Mirrors			0.4			
65-07	Ind. 14 Bul. 6 European - Style Mirror Mount improvement	0.5	0.5				
65-08	Ind. 14 Bul. 6 European - Style Mirror Mount Torque	1	1				
65-09	To Remove & Replace the Interior Mirror	0.2	0.2	0.2	0.2	0.2	0.2
65-10	Index 14 Bul. 10 Z bracket Installator					0.5	
65-11	Index. C2 14 Bul. 8 Cross View - Fixed Mount				0.8		
	<b>Radios</b>						
65-50	Radio - Remove & Replace (for Radio Exchange)	0.5	0.5	0.5	0.5	0.5	0.5
65-51	Speaker - Remover & Replace	0.2	0.2	0.2	0.2	0.2	0.2
65-52	Antenna - Remove & Replace	0.3	0.3	0.3	0.2	0.3	0.3
65-53	External PA Speaker (Includes Mount) Remove & Replace	0.3	0.3	0.3	0.3	0.3	0.3
65-54	Microphone - Remote Mount	0.6	0.6	0.6	0.6	0.4	0.6
65-55	Re-Wire EF Cross Arm for Wisc. Only						0.5
65-56	Crossing Arm Remove & Replace	0.5	0.5	0.5	0.5	0.5	0.5
	<b>Defroster Fan</b>						
65-100	Defroster Fan Assembly, 12 Volt - Remove & Replace	0.4	0.4	0.4	0.4	0.4	0.4
	<b>Stop Signs - Air Operated</b>						
65-150	Stop Sign Assembly (Same as Stop Arm) - Remove & Replace	0.5	0.5	0.5	0.5	0.5	0.5
65-151	Return Spring - Remove & Replace (Includes Removal of Air Pan Cover )	0.3	0.3	0.3	0.3	0.3	0.3



STANDARD REPAIR TIMES

OPT. NO.	Group 65 - Accessories Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
65-152	Return Cable Assembly - Remove & Replace ( Includes Removal of Air Pan Cover)	0.3	0.3	0.3	0.3	0.3	0.3
65-153	Nylon Pulley - Remove & Replace (Includes Removal of Air Pan Cover)	0.3	0.3	0.3	0.3	0.3	0.3
65-154	Diaphragm with Plates and Retaining Ring Remove & Replace	0.5	0.5	0.5	0.5	0.5	0.5
65-155	Valve and Regulator Assembly - Remove & Replace	0.3	0.3	0.3	0.3	0.3	0.3
65-156	Remove & Replace Stop Arm Assembly (Specialty)	0.4	0.4	0.4	0.4	0.4	0.4
65-157	Remove & Replace Stop Arm Air Cradle (Specialty)	0.5	0.5	0.5	0.5	0.5	0.5
65-158	Remove & Replace Cross Arm Assembly (Specialty)	0.4	0.4	0.4	0.4	0.4	0.4
65-159	Remove & Replace Cross Arm Motor Cradle (Specialty)	0.4	0.4	0.4	0.4	0.4	0.4
65-160	Remove & Replace Cross Arm Air Cradle (Specialty)	0.5	0.5	0.5	0.5	0.5	0.5
65-161	Remove & Replace Cross Arm Motor / Clutch (Specialty)	0.4	0.4	0.4	0.4	0.4	0.4
65-162	Index C2 8 Bul. 1 Reg/Solenoid Plumbing for air stop signs / gates				0.3		
<b>Stop Signs - Electric</b>							
65-200	Relay - Remove & Replace (Includes Removal of Rear End Cover Plate)	0.3	0.3	0.3	0.3	0.3	0.3
65-201	Limit Switch - Remove & Replace (Includes Removal of Rear End Cover Plate)	0.3	0.3	0.3	0.3	0.3	0.3
65-202	Gear Motor with Bracket - Remove & Replace	0.4	0.4	0.4	0.4	0.4	0.4
65-203	Electric Base Assembly - Remove & Replace	0.5	0.5	0.5	0.5	0.5	0.5
65-204	Remove & Replace Stop Arm Motor Cradle (Specialty)	0.4	0.4	0.4	0.4	0.4	0.4
65-205	Remove & Replace Stop Arm Motor /Clutch (Specialty)	0.4	0.4	0.4	0.4	0.4	0.4
<b>Stop Signs Blades</b>							
65-250	Stop Sign Blades - Remove & Replace	0.1	0.1	0.1	0.1	0.1	0.1
65-251	Stop Sign Blades with Lights	0.3	0.3	0.3	0.3	0.3	0.3
65-252	Remove & Replace Stop Arm Blade (Specialty)	0.5	0.5	0.5	0.5	0.5	0.5
<b>Luggage Compartments</b>							
65-300	Door Hinge, Luggage Compartment - Remove & Replace	0.5	0.5	0.5	0.5		0.5
65-301	Recessed Door Handle Assembly with Locks and Rods - Remove & Replace	0.5	0.5	0.5	0.5		0.5



STANDARD REPAIR TIMES

OPT. NO.	Group 65- Accessories Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
<b>Luggage Compartments - continued</b>							
65-302	Door, Luggage Compartment, Welded Assembly - Remove & Replace (Includes Transfer of hinge, Rubber, and Lock Assembly) (Per Door) Includes Parts Refinish Door	2.5	2.5	2.5	2.5		2.5
65-303	Rubber Seal - Remove & Replace	1	1	1	1		1
65-304	Open Top Box, Plumbing Access Panel Remove & Replace	0.5	0.5				
65-305	210/Storage Box Above Drivers Sash				0.5		
65-306	Storage Box Mounting Bracket				0.5		
65-307	To R & R Sanders	2.3	2.3	2.3	2.3		2.3
<b>Decals</b>							
65-400	Decals	0.1	0.1	0.1	0.1	0.1	0.1
65-401	"School Bus" Decal For front or rear to Remove or Replace	0.5	0.5	0.5	0.5	0.5	0.5
65-402	"Safety Equipment Inside - Emergency Exit/Door Decal To Remove & replace	0.2	0.2	0.2	0.2	0.2	0.2
65-403	To R/R Stop Arm Decal	0.3	0.3	0.3	0.3	0.3	0.3
<b>Book Cases</b>							
65-500	To Remove & Replace Book Cases	4.2	4.2	4.2	4.2	4.2	4.2
<b>Wheel Chair Lift</b>							
65-600	To Remove & Replace the Wheel Chair Lift	1.5	1.5	1.5	1.5	1.5	1.5
65-601	To R&R the Arm Pin	0.3	0.3	0.3	0.3	0.3	0.3
65-602	To R&R the Ball Joint	0.5	0.5	0.5	0.5	0.5	0.5
65-603	To R&R the Cable - Roll Stop	0.5	0.5	0.5	0.5	0.5	0.5
65-604	To R&R the Cylinder - Repair	0.8	0.8	0.8	0.8	0.8	0.8
65-605	To Replace the Cylinder	0.8	0.8	0.8	0.8	0.8	0.8
65-606	To R&R the Flow Control	0.5	0.5	0.5	0.5	0.5	0.5
65-607	To R&R the Handrail Wring Assembly	1	1	1	1	1	1
65-608	To R&R the Hose	0.5	0.5	0.5	0.5	0.5	0.5
65-609	To R&R the Kickout Assembly & Spring	0.5	0.5	0.5	0.5	0.5	0.5
65-610	To R&R the Limit Switch	0.5	0.5	0.5	0.5	0.5	0.5
65-611	To Replace the Motor	0.5	0.5	0.5	0.5	0.5	0.5
65-612	To R&R the Occupant Restraint Bell	0.5	0.5	0.5	0.5	0.5	0.5
65-613	To R&R the Out board Rollstop (powered)	0.5	0.5	0.5	0.5	0.5	0.5
65-614	To R&R the Pendant to Plug- Rewire	0.3	0.3	0.3	0.3	0.3	0.3
65-615	To R&R the Platform	1	1	1	1	1	1
65-616	To R&R the Platform Post (vertical arm)	0.5	0.5	0.5	0.5	0.5	0.5
65-617	To R&R the Pressure Switch	0.5	0.5	0.5	0.5	0.5	0.5
65-618	To R&R the Pump and Motor	0.8	0.8	0.8	0.8	0.8	0.8
65-619	To R&R the Pump Unit Manual Back up	0.5	0.5	0.5	0.5	0.5	0.5
65-620	To R&R the Solenoid	0.5	0.5	0.5	0.5	0.5	0.5
65-621	To R&R the Toggle or Rocker Switch	0.3	0.3	0.3	0.3	0.3	0.3
65-622	Torsion Bar / Spring	0.3	0.3	0.3	0.3	0.3	0.3
65-623	To R & R The wheel Chair Track	0.5	0.5	0.5	0.5	0.5	0.5
<b>NON TBB Chassis</b>							
65-700	Non TBB Chassis Minotour To R/R The Drive Line Guard					0.2	
<b>Webasto Scholastic Series (45,000 Btu) Standard Repair</b>							
65-800	Testing & Diagnosis (30 Minutes to perform a Functional Test To Isolate Defective Components. Diagnosis Test Equipment, Part Number 1302691A, Is Available for the Scholastic Series Product)	0.5			0.5		0.5
65-801	Exterior Component Repair (Exterior Components Would Include: Control Unit, 7 Day Digital Timer, Coolant Pumps, Relays Thermostats)	0.5			0.5		0.5
65-802	Easily Accessible Interior Component Repair. (Easily Accessible Interior Components Would Include: Flame Detectors, Fuel Solenoid, Combustion Chamber, Internal Wiring Harness, Electrodes)	0.8			0.8		0.8
65-803	Complete Dismantling Repair & Reassemble. (Complete Dismantling Repair & Reassemble Would Include: Heat Exchanger, Shaft or Bearing Assembly)	1			1		1

	<b>Webasto Thermo Top / TSL17 (17,000 Btu) Standard Repair</b>						
65-804	Testing & Diagnosis (30 Minutes to Perform a Functional Test to Isolate Defective Components. Diagnosis Test Equipment, Part Number 1301728B, Is Available for the Thermo Top Product.)				0.5	0.5	
65-805	Exterior Component Repair (Exterior Components Would Include: Fuel Pump, Coolant Pump, Timers)				0.5	0.5	
65-806	Complete Dismantling Repair & Reassemble. (Complete Dismantling Repair & Reassemble Would Include: Removal & Replacement of Thermo Top)				1	1	



**STANDARD REPAIR TIMES**

Group 66 - Heaters		MODELS					
OPT. NO.	Operation Name	HD/HDX	ER	Conv.	C2	Mino.	EF
66-01	Front Heater Core - Remove & Replace	1	1				0.9
66-02	Front Heater Motor - Remove & Replace	0.5	0.5				0.5
66-03	Front Heater or Defroster Control Cables - Remove & Replace						0.9
66-04	Left Front Heater Core - Remove & Replace			1			
66-05	Left Front Heater Motor - Remove & Replace			0.5			
66-06	Stepwell and Right Front Heater Core - Remove & Replace			0.5	0.7		
66-07	Stepwell and Right Heater Motor - Remove & Replace			0.3	0.3		
66-08	Underseat Heater Core - Remove & Replace	0.4	0.4	0.4	0.4	0.4	0.4
66-09	Underseat Heater Motor - Remove & Replace (Includes 66-08)	0.7	0.7	0.7	0.7	0.7	0.7
66-14	Booster Pump - Remove & Replace	1	1	0.5	1	0.5	0.6
66-15	Heater Cut off Valve - Remove & Replace	0.5	0.5	0.5	0.5	0.5	0.5
66-16	Heater/Engine Coolant Pressure Test	0.5	0.5	0.5	0.5	0.5	0.5
66-17	Drain and Refill Cooling System	1	1	1	1	1	1



STANDARD REPAIR TIMES

OPT. NO.	Group 66 - Heaters Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
66-20	EF Heater Motor -Left						0.8
66-21	EF Heater Motor Stepwell						0.5
66-22	<b>not in use</b>						
66-23	<b>not in use</b>						
66-24	Heater Hose - Remove & Replace	0.5	0.5	0.5	0.5	0.5	0.5
66-25	Heater Hose, Repair Leak at Clamp - Remove & Replace	0.5	0.5	0.5	0.5	0.5	0.5
66-26	Heater Hose Connector T's and Elbows - Remove & Replace	0.5	0.5	0.5	0.5	0.5	0.5
66-27	Louver - Remove & Replace	0.2	0.2	0.2		0.2	0.2
66-28	<b>not in use</b>						
66-29	<b>not in use</b>						
66-30	<b>not in use</b>						
66-30	Ind. 6 Bul. 25 Webasto TSL-17 Heater			5			
66-31	R&R Heater Duct			2.6			
66-32	<b>not in use</b>						
66-33	Ind.C2 6 Bul. 2 Underseat Heater Motor (Inspection)				0.3		
66-34	Ind. 6 Bul 27 Underseat Heater Motor (Inspection) Per Unit	0.3				0.3	0.3
66-35	To R&R The Surge Tank for C2 's Only				0.4		





STANDARD REPAIR TIMES

Group 70 - Air Conditioning		MODELS					
OPT. NO.	Operation Name	HD/ HDX	ER	Conv.	C2	Mino.	EF
	To determine the tonnage of your unit, check the data plate located on the evaporator for the BTU rating. 48,000 BTU = 4 Ton 72,000 BTU = 6 Ton 96,000 BTU = 8 Ton						
	<b>Power Pack Thermo King</b>						
70-01	Operating Pressure Switch - Remove & Replace	0.2	0.2				
70-02	Suction Pipe Assembly - Remove & Replace	0.3	0.3				
70-03	Air Solenoid with Filter - Remove & Replace	0.5	0.5				
70-04	Alternator Regulator - Remove & Replace	0.3	0.3				
70-05	90 Amp Alternator - Remove & Replace	0.7	0.7				
70-06	Diode Trio, Alternator - Remove & Replace	0.5	0.5				
70-07	Vee Belt, Compressor to Alternator - Remove & Replace	0.6	0.6				
70-08	Vee Belt, Engine to Power Pack - Remove & Replace	0.8	0.8				
70-09	Air Compressor Clutch - Remove & Replace	0.7	0.7				
70-10	Clutch Rebuild Kit - Install (Used In Conjunction with 70-09)	0.5	0.5				
70-11	High or Low Pressure Switch - Remove & Replace	0.2	0.2				
70-12	Discharge Pipe Assembly - Remove & Replace	0.3	0.3				



**STANDARD REPAIR TIMES**

Group 70 - Air Conditioning		MODELS					
OPT. NO.	Operation Name	HD/ HDX	ER	Conv.	C2	Mino.	EF
<b>Air Compressor - Thermo King</b>							
70-50	Compressor, Air Conditioning - Remove & Replace	1.1	1.1				
70-51	Kit Valve Plate Assembly - Remove & Replae - In Conjunction with 70-50	0.5	0.5				
70-52	Kit, Shaft Seal Assembly - Remove & Replace Inconjunction with 70-50	0.7	0.7				
70-53	Shut off Valve - Remove & Replace	0.5	0.5				
70-54	Kit , Sightglass Assembly - Remove & Replace	0.5	0.5				
<b>Condenser - Thermo King</b>							
70-100	Fan, 22" - Remove & Replace	0.8	0.8				
70-101	Condenser Motor - Remove & Replace	0.4	0.4				
70-102	Motor Brush (Two Per Motor ) _ Remove & Replace - In conjunction with 70-101	0.4	0.4				
70-103	Thermostat - Remove & Replace	0.5	0.5				
70-104	Receiver Drier, Filter - Remove & Replace	0.5	0.5				
70-105	Sightglass Assembly - Remove & Replace	0.5	0.5				
70-106	Solenoid Valve, Body - Remove & Replace	1.1	1.1				
70-107	Coil Soleniod Valve, 12 Volt - Remove & Replace	0.8	0.8				
70-108	Shut off Valve - Remove & Replace	0.5	0.5				



STANDARD REPAIR TIMES

Group 70 - Air Conditioning		MODELS					
OPT. NO.	Operation Name	HD/ HDX	ER	Conv.	C2	Mino.	EF
<b>Evaporator - Thermo King</b>							
70-109	Evaporator Motor - Remove & Replace	0.5	0.5				
70-110	Motor Brush ( Two Per Motor) - Remove & Replace	0.4	0.4				
70-111	Outlet Duct, Flexible - Remove & Replace	0.5	0.5				
70-112	Equalizer Hose Assembly - Remove & Replace	2	2				
70-113	Expansion Valve - Remove & Replace	1.5	1.5				
<b>Electrical - Thermo King or Bergstrom</b>							
70-200	Terminal Block - Remove & Replace	0.4	0.4				
70-201	Relay Socket, Cool - Remove & Replace	0.6	0.6				
70-202	Contactora - Remove & Rplace	0.2	0.2				
70-203	Diode - Remove & Replace	0.6	0.6				
70-204	Capacitor - Remove & Replace	0.5	0.5				
70-205	Contactora and Alternator Relay - Remove & Replace	0.3	0.3				
70-206	Circuit Breaker - Remove & Replace	0.3	0.3				
70-207	Relay, Cool - Remove & Replace	0.4	0.4				
70-208	Hour Meter - Remove & Replace	0.3	0.3				
70-209	Vacuum And Charge Time ( NOTE: Other work should be in progress while vacuum pump is running.)	1	1				



**STANDARD REPAIR TIMES**

<b>1. SPLIT SYSTEM - Warranty Labor Allowance Schedule</b>		
<b>Group 1 - Miscellaneous</b>		
<b>OPT. NO.</b>	<b>Operation Name</b>	<b>All Models</b>
70-500	Diagnosis (Recovery)	<b>0.5</b>
70-501	Vacum and Recycling	<b>1</b>
70-502	<b>No Longer Active</b>	
70-503	Suction Line Filter - Instal	<b>1</b>
70-504	Suction Line Filter - Remove & Replace	<b>0.3</b>
70-505	Vacuum and recharging EM 17 System	<b>2 (For HDX only)</b>
<b>Group 2- Compressor</b>		
70-510	Compressor (Must do 70-500, 70-501.) - Remove & Replace	<b>1.5</b>
70-511	Compressor Clutch Assembly - Remove & Replace	<b>0.5</b>
70-512	Compressor Mounting Bracket (Single Mounting Bracket) - Remove & Replace	<b>1</b>
70-513	Dual Mounting Bracket	<b>2.5</b>
70-514	Compressor- Remove and Replace Diesel Engine with Power Stroke	<b>5</b>
<b>Group 3 - Evaporator</b>		
70-520	Evaporator Drain Pan - Remove & Replace	<b>0.5</b>
70-521	Evaporator Blower Assembly - Remove & Replace	<b>0.8</b>
70-523	Evaporator Coil - EM-1, 2, 14 & 20; EM-3 (Must do 70-500, 70-501.) - Remove & Replace	<b>2</b>
70-524	Thermal Expansion Valve (Must do 70-500, 70-501.) Remove & Replace	<b>0.5</b>
70-525	Evaporator Freeze-up Thermostat - Remove & Replace	<b>0.3</b>
70-526	Evaporator assembly (Must do 70-500, 70-501.) - Remove & Replace	<b>1</b>
70-527	Drain Hose Rerouting	<b>1</b>
70-528	To Remove and Replace Compressor Mounting Kit ( Minotours only)	<b>2.3 ( Mino Only)</b>
70-529	To Remove & Replace the Drive Belt (Minotours Only)	<b>.5 (Mino Only)</b>



**STANDARD REPAIR TIMES**

<b>1. SPLIT SYSTEM - Warranty Labor</b>		
<b>Group 4 - Condenser</b>		
<b>OPT. NO</b>	<b>Operation Name</b>	<b>All Models</b>
70-530	Condenser Motor - Remove & Replace	0.5
70-531	Condenser Unit - Remove & Replace	1
70-532	Filter-Drier (Must do 70-500, 70-501) Remove & Replace	0.3
70-533	Refrigerant Sight Glass (Must do 70-500, 70-501) Remove & Replace	0.3
70-534	Liquid Line Hose Assembly (Must do 70-500, 70-501) Remove & Replace	0.3
70-535	Condenser Coil Assembly Bolted (Must do 70-500, 70-501) Remove & Replace	2
70-536	Condenser Coil Assembly Riveted (Remove & Replace)	3.5
70-537	Diagnostic for EM 17 System Evaporator and Condenser	1 (For HDX only)
<b>Group 5 - Electrical</b>		
70-540	Circuit Breaker Remove & Replace	0.3
70-541	Relay Remove & Replace	0.3
70-542	Fan Speed Switch Remove & Replace	0.3
70-543	Thermostat Switch Remove & Replace	0.3
70-544	Freeze Up Thermostat Remove & Replace	0.3
70-545	Pressure Switches high/low Remove & Replace	0.5
70-546	Evaporator Blower/ Resistor Remove & Replace	0.8
<b>1. Split System - Warranty Labor</b>		
<b>Group 6 - Refrigerant Piping</b>		
<b>OPT. NO</b>	<b>Operation Name</b>	<b>All Models</b>
70-550	Hose Fitting - Remove & Replace	0.3
70-551	O-Ring - Remove & Replace	0.3
70-552	Install Hose Splice - Remove & Replace	0.3
70-553	Braze a Joint	1
70-554	Valve Core - Remove & Replace	0.3
70-555	Index 12 Bul. 9R For PSB Composts For Minotours Only	1



STANDARD REPAIR TIMES

OPT. NO.	Group 75 - Paint Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
75-01	Full Front Cowl	3	3	3	3	3	3
75-02	Half Front Cowl	1.5	1.5	1.5	1.5	1.5	1.5
75-03	Wheel	0.8	0.8	0.8	0.8	0.8	0.8
75-04	Window Header (per Header)	0.5	0.5	0.5	0.5	0.5	0.5
75-05	Entrance Door Leaf (exterior)	1	1	1	1	1	1
75-06	Entrance Door Leafs (interior)	1	1	1	1	1	1
75-07	Bumper	1.5	1.5	1.5	1.5	1.5	1.5
75-08	Rear Stationary Window Panel (per side)	1	1	1	1	1	1
75-09	Rear Tail light panel (per side)	1	1	1	1	1	1
75-10	Rear License Panel (per side)	1	1	1	1	1	1
75-11	Rear Door Threshold	0.8	0.8	0.5	0.5	0.5	0.5
75-12	Rear Corner Post (per side)	1	1	1	1	1	1
75-13	Roof Cap (one color)	2.8	2.8	2.8	2.8	2.8	2.8
75-14	Black Eye (per eye)	0.6	0.6	0.6	0.6	0.6	0.6
75-15	Rear Door Strap Hinge (per hinge)	0.7	0.7	0.7	0.7	0.7	0.7
75-16	Rub Rail - Full Length	2.5	2.5	2.5	2.5	2.5	2.5
75-17	All Rub Rails	9	9	9	9	9	9
75-18	Rear Door (exterior)	2.3	2.3	2.3	2.3	2.3	2.3
75-19	Rear Door (interior)	2.3	2.3	2.3	2.3	2.3	2.3
75-20	Side Sheet ( one full)	2.8	2.8	2.8	2.8	2.8	2.8
75-21	Complete Side of Bus	8	8	8	8	6	8
75-22	Complete Rear of Bus	6	6	6	6	6	6
75-23	Complete Roof	11	11	11	11	8	11
75-24	Complete Engine Door (er)	3	3				
75-25	Rear Push Out Window	2.5	2.5	2.5	2.5	2.5	2.5
75-26	Fuel Door or Rad Door	0.3	0.3	0.3	0.3	0.3	0.3
75-27	Battery Box Door	0.5	0.5	0.5	0.5	0.5	0.5
75-28	Fenderette (each)	0.5	0.5	0.5	0.5	0.5	0.5
75-29	Pilaster (each)	0.4	0.4	0.4	0.4	0.4	0.4
75-30	Complete 6 Windows Section Bus	18	18	18	18		18
75-31	Complete 7 Window Section Bus	20	20	20	20		20
75-32	Complete 8 Window Section Bus	22	22	22	22		22
75-33	Complete 9 Window Section Bus	24	24	24	24		24
75-34	Complete 10 Window Section Bus	26	26	26	26		26
75-35	Complete 11 Window Section Bus	28	28	28	28		28
75-36	Complete 12 Window Section Bus or longer	31	31	31	31		31
75-37	Prep Time Plus the Standard SRT Listed. 1 TIME PER REPAIR ORDER Anything Above SRT Time Will Need Approval	1	1	1	1	1	1
75-38	Warning Light Visor includes, Removal of Lights. ( Per Visor)	0.5	0.5	0.5	0.5	0.5	0.5
75-39	Front Chassis Hood			4	4	2.5	
75-40	Complete 4 Window Bus						16
75-41	Complete 5 Window Bus						17
75-42	Luggage Box Door (per Door)	2	2	2	2		2
75-43	Side Engine Vent Door (per Door)	1	1				
75-44	Complete Front End	3	3				3
75-45	Luggage Box Interior (Per Box)	2	2	2	2		2
75-46	Electrical Compartment Door	1	1	1	1		1
75-47	Front Access Panel Center	1	1				
75-48	Front Wiper Access Panel (Per Box)	1	1				1
75-49	Front Cowl Panel Below Windshiled	1.5	1.5		1.5		
75-50	Front Headlight Panel	1.5	1.5				1
75-51	Panel Below Engine Door	1.5	1.5				
75-52	Roof Panel (Per Panel)	2.5	2.5	2.5	2.5	2.5	2.5
75-53	Lift Door Exterior	2.5	2.5	2.5	2.5	2.5	2.5
75-54	Lift Door Interior	2.5	2.5	2.5	2.5	2.5	2.5
75-55	Bode Door Exterior (Per Panel) 1 Color	3.5	3.5				3.5
75-56	Driprail (Per Section)	0.8	0.8	0.8	0.8	0.8	0.8



OPT. NO.	Operation Name	HD/ HDX	ER	Conv.	C2	Mino.	EF
90-01	98V-054 Hand Throttle						0.5
90-02	97V-192 Flip Seat		0.8	0.8			0.8
90-03	98V-309 Navistar Extended Bumper			0.5			
90-04	99V-174 Minotour Fuel Tank Bolts					0.5	
90-05	99V-176 MVP-EF Accelerator Pedal						0.2
90-06	99V-075 Shock Mounting - No Welding		3				3
90-07	99V-075 Shock Mounting - Welding Proc. #1		6.5				6.5
90-08	99V-075 Shock Mounting - Welding Proc. #2		8.5				8.5
90-09	99V-175 Driver's Seat - Air Tether belts			1			
90-10	99V-173 Barrier Reinforcement (per barrier)			0.5			
90-11	00V-041 Neway AD 200 Rear Air Suspension						4.5
90-12	99V-266 Minotour 45" Seat (per seat)					1	
90-13	00V-232 Bendix ABS Inspection		2.5				2.5
90-14	00V-232 Bendix ABS Repair		0.5				0.5
90-15	00V-232 Bendix ABS Insp. Air Disc and Spoke wheel only		6				6
90-16	00V-279 Wabco ABS						0.5
90-17	00V-174 Mod. Of Marker Light Circuit		0.5				0.5
90-18	00V-428 MVP-EF Brake Pedal Spacer						1
90-19	00V-362 National Driver's Seat		0.5	0.5			0.5
90-20	00V-380 Mexico "L" Series Button Track			2			
90-21	00V-428 Brake Pedal Spacer						1
90-22	01V-104 Front Roof Cap		6				
90-23	01V-105 Low Air Pressure Switch		0.3				
90-24	01V-103 Accelerator Pedal hang up at ful		0.3				
90-25	97V-177 steering column toeboard		0.2				0.2
90-26	01V-044 Tie Rod Inspection		0.4				0.4
90-27	01V-044 Tie Rod Repair		0.5				0.5
90-28	00V-360 210 box recall			0.5			
90-29	01V-214 Main Wiring Harness			0.4			
90-30	01V-097.009			0.3			
90-32	94V-143 Danfoss Hydraulic Control Valve		0.7	0.7			0.7
90-33	01V-322 Inspection		0.3				
90-34	01V-322 repair		0.7				
90-35	02V-085 (formerly Von 49)		3				
90-36	97V-031 Door trim Conventional		0.1	0.1			0.1
90-37	02V-062 Air Tank			0.8			
90-38	00V-428 Inspection						0.2
90-39	RECALL 02V-018 ONE VALVE		0.5				0.5
90-40	02V-018 inspection		0.2				0.2
90-41	RECALL 02V-018 TWO VALVES		0.7				0.7
90-42	RECALL 02V-085 RETORQUE IDLER NUT		0.3				
90-43	RECALL 01V-213 TRANS AIR					1.5	
90-44	02V-030 Thomas Minotour CMVSS 222 Non-compl					6	
90-45	02V-221 Incorrect Wheel Studs						2.5
90-46	02V-220 Minotour Seat Belt Anchorages per seat					0.4	
90-47	03V-205 Alternator Power Cable Routing						0.8



**STANDARD REPAIR TIMES**

OPT. NO.	Group 90 - Product Recall Operation Name	MODELS					
		HD/ HDX	ER	Conv.	C2	Mino.	EF
90-48	05V-137 05-078 Tie Rod & Shock Plate	2.1	2.1				2.1
90-49	05V-137 05-078 Tie Rod Only	1.3	1.3				1.3
90-50	05V-340 Specialty Stop Arm	0.4	0.4	0.4		0.4	0.4
90-51	05V-284 Holland Transverse Beam	1.5					
90-52	05V-207 Webasto Coolant Heater	0.5		0.5			0.5
90-53	05V-397 Side Emergency Door Exit				0.5		
90-54	05V-392 Body Panel fmvs 221-C2				0.5		
90-55	06V-014 Front Spring Replacement HDX	3.4					
90-56	06V-205 Inspection for HDX only	0.7					
90-57	06V-150 Ricon Wheelchair Lift (per lift)	1		1		1	1
90-58	06V-136 Tyco Printer Circuit Board	1		1			1
90-59	06V-151 Brawn Wheelchair lift					1	
90-60	06V-205 HDX Bendix-Inspection & Replacement	1.3					
90-61	06V-496 Transpec Stop Arm				0.5		
90-62	07V-002 Transpec Crossing Arm				0.5		
90-63	07V-040 Wheelchair lift Interlock Switch (Zip Tie)					0.1	
90-64	06V-422 Steering Column To The Toeboard Seal						0.4
90-65	07V-135 Ricon Wheel Chair Lift Inspection	0.3		0.3	0.3	0.3	0.3
90-66	07V-135 Ricon Wheel Chair Lift Repair	1		1	1	1	1
90-67	07V-250 Fuel Fill Installation Inspection				0.1		
90-68	07V-250 Fuel Fill Installation Repair				0.3		
90-69	07V-459 Emergency Hatch Reflective Tape				0.1		
90-70	07V-306 Inspect and Install Fasteners	1.2	1.2				1.2
90-71	07V-306 Replace Steering Arm	1.5	1.5				1.5
90-72	07V-302 Bendix	1.3					
90-73	07V-142 Seat Belt Retianer Strip (Per 2 Seats)	0.1	0.1	0.1		0.1	0.1
90-74	07V-137 Brake Pedal Interference	0.7	0.7				
90-75	07V-544 Printed Circuit Boards	0.5	0.5	0.5			0.5
90-76	08V-087 Emergy/Side Door Handle Retrofit (Per Handle)	0.3	0.3	0.3	0.3	0.3	0.3
90-77	08V-088 Braun Wheelchair Lift	0.3	0.3	0.3	0.3	0.3	0.3
90-78	08V-321 Maxon Wheelchair Lift			1.5		1.5	
90-79	08V-269 SAF Holland ADL Suspension - Inspection	0.3					
90-80	08V-269 SAF Holland ADL Suspension - Repair	1.5					
90-81	08V-430 Ricon Threshold Warning System Inspection	0.1		0.1		0.1	0.1
90-82	08V-430 Ricon Threshold Warning System Repair	0.4		0.4		0.4	0.4
90-83	08V-432 Ricon Anti-Stow Interlock System	0.4		0.4		0.4	0.4
90-84	08V-356 Power Cable Routing - Inspection		0.5				
90-85	08V-356 Power Cable Routing - Repair		1				
90-86	09V-010 C2 Assist Rail - Inspection				0.1		
90-87	09V-010 C2 Assist Rail -Repair				0.3		
90-88	08V-622 DPS MVP-EF						1
90-89	08V-622 DPS HDX	1					
90-90	08V-648 Minotour Tire / Capacity Placarc					0.1	
90-91	09V-011 VIM	0.5					
90-92	09V-287 Emerg. Exit Window Egress to Non Egress Per Window	0.5					0.5
90-93	09V-287 Emerg. Exit Window Proc. 1 Handle Release, Window Does not Release Per Window	0.2					0.2
90-94	09V-287 Emerg. Exit Window Proc. 2 Window Latch Will not Fully Engage Per Window	0.5					0.5
90-95	09V-287 Emerg. Exit Window Proc. 3 handle Requires Excess Force to Unlatch Per Window	0.5					0.5
90-96	09V-287 Emerg. Exit Window Proc.4 Damaged Release Handle Per Window	0.2					0.2





**STANDARD REPAIR TIMES**

Group 90 - Product Recall		MODELS					
OPT. NO.	Operation Name	HD/ HDX	ER	Conv.	C2	Mino.	EF
90-97	09V-287 Emerg. Exit Window Proc. 5 Correct Opening Size & Frame Clearance Per Window	1					1
90-98	09V-219 Emerg. Exit Window Release Inspection Per Window					0.1	
90-99	09V-219 Emerg. Exit Window Release Relocation of Window Per Window					1.3	
90-100	09V-219 Emerg. Exit Window Release Vertical to Horizontal					0.5	
90-101	09V-219 Emerg. Exit Window Release Vertical With Vertical Reversed Handle Per Window					0.5	
90-102	09V-394 School Bus Stop Arm Assembly Leds -Inspection	0.1		0.1	0.1	0.1	0.1
90-103	09V-394 School Bus Stop Arm Assembly Leds - Repair	0.5		0.5	0.5	0.5	0.5
90-104	09V-462 MVP-EF Accelerator Pedal						0.3
90-105	96V-065 1992 Handrail Design		0.3	0.3			0.3
90-106	09V-344 AG2 Entrance Door Glass Bonding /Retaining Brackets				0.5		
90-107	10V-100 AG2 Entrance Door Postion Switch Replacement				0.5		
90-108	10V-100 Inspection AG2 Door Position switch replacement				0.2		
90-109	10V-183/10V-184 Bergstrom Heater	1					
90-110	Recall 95V-004 Driver's Seat Belt retractors		0.3	0.3			
90-111	10V-393/10V-394 Mino Power Cable Routing Proc. 1					0.2	
90-112	10V-393/10V-394 Mino Power Cable Routing Proc. 2					1	
90-113	10V-486/487 National Drivers Seat Ped. Inspection	0.1			0.1		0.1
90-114	10V-486/487 National Drivers Seat Ped. Repair	0.8			0.8		0.8
90-115	10V-396/10V-397 EF Mega Fuse Junction Block						1
90-116	11V-222/11V-223 Inspection EM1 Gen V Evap. Units Carrier	0.1		0.1	0.1	0.1	0.1
90-117	11V-222/11V-223 Repair EM1 Gen V Evap. Units Carrier	0.5		0.5	0.5	0.5	0.5
90-118	11V-201/11V-202 Federal Data Label			0.1	0.1	0.1	
90-119	11V-204/11V-205 Federal Data Label, Tire & Loading Placard					0.1	
90-120	11V-503 Battery Cable Pass-Thru Corrosion, Inspect, Clean, Add protector				0.7		
90-121	11V-503 Battery Cable Pass-Thru Corrosion, Replace Body Cables or Pass Thru Studs				0.2		
90-122	11V-503 Battery Cables Pass Thru Corrosion Rplace Chassis Cable				0.6		
90-123	11V-517 SpectAL Push out Window Handles (Per Window)				0.2		



**STANDARD REPAIR TIMES**

Group 92 - Vehicle Owner Notification		MODELS					
OPT. NO.	Operation Name	HD/ HDX	ER	Conv.	C2	Mino.	EF
	<b>Vons</b>						
92-01	VON # 38 MVP-EF Radiator with CAT 3126						0.8
92-02	VON 42# Fan Drive (caterpillar 3hr)and the (Cummins 6B or 6C 2.5hr).		3hr cat 2.5hr cum				
92-03	VON 40# Cooling		1				
92-04	VON # 36 Freightliner Mirror Brackets( on Conventional units with freightliner chassis)			0.8			
92-05	VON # 43 Shock Spacing add 1 hour for welding						2
92-06	VON # 45 RearEmg. Door Positive Latch			1			
92-07	VON 46 Reyco U-Bolts		1.8				
92-08	VON 48 Hydraulic Brake Switch						1
92-09	VON 47 Air Intake Tube Bracke		0.5				
92-10	VON 51 Flat Floor-MVP-EF						1
92-11	VON 53 Wiring Interf. Behind Lt. Side hinged w/s wiper access door		0.5				
92-12	VON 52 Power Routing in Rear Elec. Comp.		0.3				
92-13	VON 54 Air Driver's Seat Repetitive Vertical Mov		0.5				0.5
92-14	VON 50 Minotour Heater Hose Routing					1.5	
92-15	VON 49 Fan Drive Update		3				
92-20	<b>not in use</b>						
92-21	VON 56 Power Stud Spacing		1	1			1
92-22	VON 60 # High Point Clearance Lights					1	
92-23	VON 58 Battery Cable Routing		0.8				
92-35	VON 55 Integrastyle Mirror		0.3				0.3
92-36	VON 62 Rear Reyco Suspension		2				
92-37	VON 62 Rear Reyco Suspension Addition Drilling		1				
92-38	Emergency door handle for NY State only			0.3		0.3	0.3
92-39	VON 59 Transmission Dipstick - Support AD 2000						0.5
92-40	VON 63 Air Valve Installation		1	1			
92-41	VON 61 Brake Rotors Inspection						0.7
92-42	VON 61 Brake Rotors Inspection tone rings replace rotors						3.9
92-43	VON 61 Brake Rotors Wheel Seals replacement						1.2
92-44	VON 0311-209 Fuel Tanks - (SLF only 2)						
92-45	VON 64 Charge Air Pipe Interference inspection	0.1					
92-46	VON 64 Charge Air Pipe Interference- Repair	0.3					
92-47	VON 65 Neway Suspension Axle Stop	3					
92-48	VON 66 Track Bar Backing Plate						1.3
92-49	VON 70 S. CAM Inspection	0.2	0.2				0.2
92-50	VON 70 S. CAM Repair Both Brackets	2	2				2
92-51	Von 68 Remote Transmission Cooler						4
92-53	Von 71 Parker Hydraulic Pump Replacement	3.3					
92-54	VON 75 Remote Mirror Fusing- Mintou					0.8	
92-55	VON 75 Remote Mirror Fusing	0.5	0.5	0.5	0.5	0.5	0.5
92-56	VON 74 Parker Hyd Pump Repl for ISB Emgines	6.5					
92-57	VON 76 AG2 Door Pivot Bolts Proc. 1				0.5		
92-58	VON 76 Cracked Stepwell Reinforcment Proc. 2				1		
92-59	Von 79 Minotour Cable Guide Inspector					0.1	
92-60	Von 79 Minotour Cable Guide Installator					0.1	
92-61	VON 78 AG2 ent door 3 position switch replace inspection				0.2		
92-62	VON 78 AG2 ent door 3 position switch replacement				0.5		
A	For "actual " time requirec						
B	Body repairs performed with no flat rate operation available - Actual time						
M	Mechanical (Chassis) repairs performed with no flat rate operation available - actual time.						



STANDARD REPAIR TIMES

Group 99 - PDI Inspections		MODELS					
OPT. NO.	Operation Name	HD/ HDX	ER	Conv.	C2	Mino.	EF
99-01	PDI Inspection - Minotour					2	
99-02	PDI Inspection - Saf-T-Liner C2				5		
99-03	PDI Inspection - Saf-T-Liner EF						5
99-04	PDI Inspection - Saf-T-Liner HDX	5					