

# Labor Operation Time Schedule

## HOW TO USE THIS MANUAL

### START SCREEN (TOP PAGE)

The screenshot shows a web browser window titled "Labor Operation Time Schedule - Microsoft Internet Explorer". The page content includes a navigation menu with links: "GROUP INDEX", "ILLUSTRATION INDEX", "TEXT INDEX", "POSITION CODE INDEX", "APPLICABLE MODELS", and "INSTRUCTIONS". A "MODEL SELECTION" dropdown menu is set to "(Selected Model)". A red arrow labeled (1) points to the navigation menu. Another red arrow labeled (2) points to the "MODEL SELECTION" dropdown. A red arrow labeled (3) points to the ">> TOP" link. A red arrow labeled (4) points to the "VERSION INFORMATION" link. The main content area features a "FOREWORD" section with text explaining the manual's purpose and a disclaimer: "NOT FOR USE ON RAIDER TRUCK". The Mitsubishi Motors logo and name are displayed below the disclaimer. At the bottom right, the text "©2007 Mitsubishi Motors Corporation" is visible.

- (1) MENU BAR
- (2) PULL-DOWN MENU FOR MODEL SELECT
- (3) SEARCH ROUTE TEXT
- (4) VERSION INFORMATION LINK TEXT

## VERSION INFORMATION

A SEPARATE VERSION INFORMATION WINDOW WILL BE OPENED. UPDATE VERSION OF THE DATA CAN BE SHOWN.

UPDATE VERSION	UPDATE DATE	REMARK
1	May, 2007	INITIAL RELEASE

## PULL-DOWN MENU FOR MODEL SELECT

IN ORDER TO SEARCH THE LABOR OPERATION TIME, IT IS NECESSARY TO SELECT A MODEL.

NOTE:  
THE LABOR OPERATION TIME TABLE AND ILLUSTRATION FOR 42A BODY AND PAINT CAN BE CHANGED AT ANY TIME BY SELECTING THE MODEL.

MODEL SELECTION:	(Selected Model)
<b>APPLICABLE MODEL</b>	(Selected Model)
	MIRAGE From '89 Up to '92
	MIRAGE From '93 Up to '96
	MIRAGE From '97 Up to '02
	LANCER From '02 Up to '06
	LANCER From '07
	LANCER Wagon/Sportback From '04
	LANCER Evolution From '04
HAT PERSONNEL	GALANT From '89 Up to '93
PAIR COSTS AND	GALANT From '94 Up to '98
	GALANT From '99 Up to '03
	GALANT From '04
	DIAMANTE From '92 Up to '96
	DIAMANTE From '97 Up to '04
	EXPO LRV From '92 Up to '96
	EXPO 4DR From '92 Up to '96
	ECLIPSE From '90 Up to '94
	ECLIPSE & SPYDER From '95 Up to '99
	ECLIPSE & SPYDER From '00 Up to '05
	ECLIPSE & SPYDER From '06
	3000GT & SPYDER From '91 Up to '99
	MONTERO From '92 Up to '00
	MONTERO From '01 Up to '06
	MONTERO SPORT From '92 Up to '04
	OUTLANDER From '03 Up to '06
	OUTLANDER From '07
	ENDEAVOR From '04

## SEARCH ROUTE TEXT

SEARCH ROUTE FROM START SCREEN (TOP PAGE) IS DISPLAYED.

>> TOP >> Illust Index >> 42 - BODY >> 4220 - PANEL, LOOSE, GENERAL >> Time Schedule (GALANT From '04)

## GROUP INDEX SCREEN

**Labor Operation Time Schedule**      MODEL SELECTION: GALANT From '04

**GROUP INDEX**      ILLUSTRATION INDEX      TEXT INDEX      POSITION CODE INDEX      APPLICABLE MODELS      INSTRUCTIONS

>> TOP >> Group Index

00. ADJUSTMENT  
11. ENGINE  
12. LUBRICATION  
13. FUEL  
14. COOLING  
15. INTAKE AND EXHAUST  
16. ENGINE ELECTRICAL  
17. ENGINE AND EMISSION CONTROL  
21. CLUTCH  
22. MANUAL TRANSMISSION  
23. AUTOMATIC TRANSMISSION  
25. PROPELLER SHAFT  
26. FRONT AXLE  
27. REAR AXLE  
31. WHEEL AND TIRE  
32. POWER PLANT MOUNT  
33. FRONT SUSPENSION  
34. REAR SUSPENSION  
35. SERVICE BRAKES  
36. PARKING BRAKES  
37. STEERING  
42. BODY  
51. EXTERIOR  
52. INTERIOR  
54. CHASSIS ELECTRICAL  
55. HEATER, AIR CONDITIONING AND VENTILATION  
85. OTHERS

42A. BODY AND PAINT  
66. ACCESSORIES  
ORIGINAL EQUIPMENT BATTERY REPLACEMENT  
PRO-RATA CHART FOR RETAIL OR WARRANTY REPLACEMENT BATTERIES  
MITSUBISHI SPECIAL LABOR OPERATION CHART  
GENERIC PART NAME LISTING

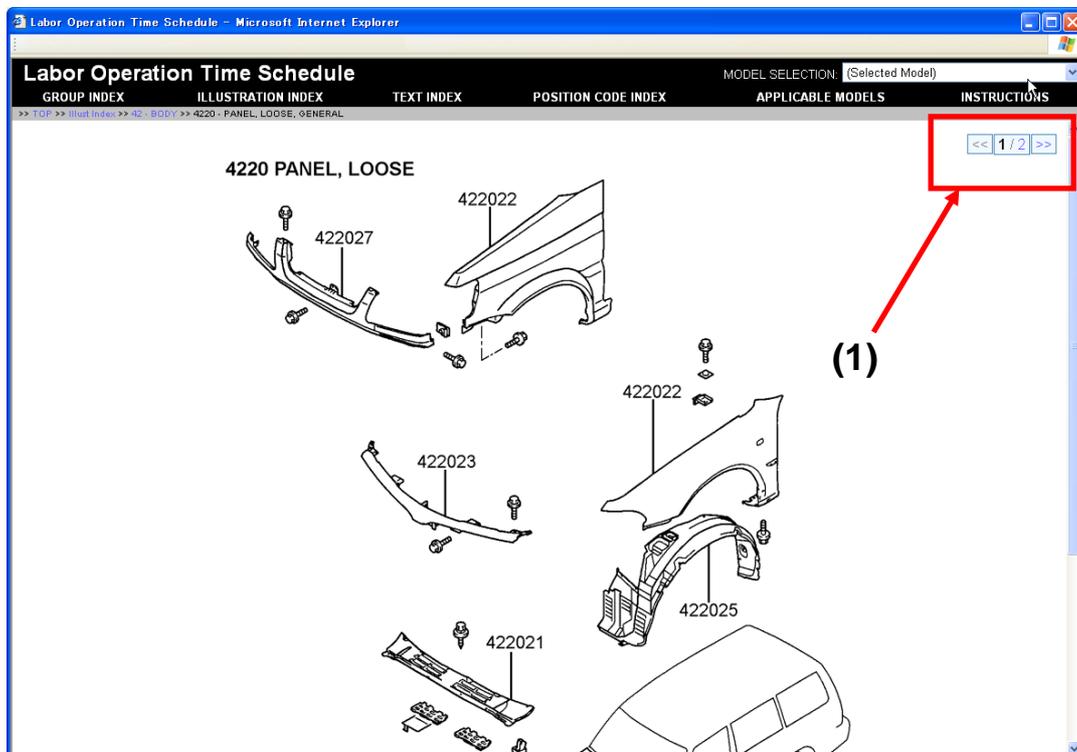
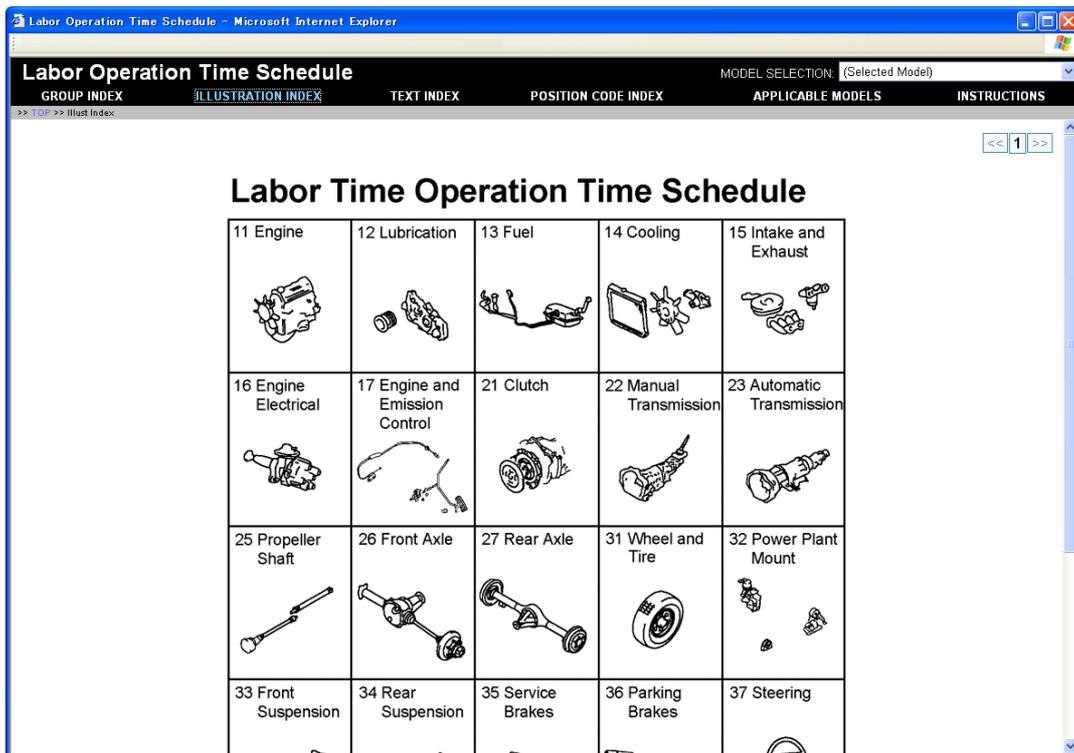
(1)      (2)

(1) CLICKING EACH GROUP TITLE WILL OPEN THE LABOR OPERATION TIME TABLE AND THE FIRST LABOR OPERATION CODE OF THE GROUP IS DISPLAYED.

(2) THESE CONTENTS AND THE CONTENTS OF "00 ADJUSTMENT" AND "85 OTHERS" CAN BE DISPLAYED FROM THIS "GROUP INDEX" (CAN NOT BE DISPLAYED FROM "ILLUSTRATION INDEX", "TEXT INDEX" AND "POSITION CODE INDEX").

## ILLUSTRATION INDEX SCREEN

ILLUSTRATION INDEX CAN BE USED TO LOCATE THE LABOR OPERATION CODE.



(1) ILLUSTRATION SELECTION

## TEXT INDEX SCREEN

TEXT INDEX CAN BE CHANGED BY SELECTING "ALPHABETICAL INDEX" OR "NUMERICAL INDEX". IF A MODEL IS SELECTED, THE INDEX FOR THE SELECTED MODEL IS DISPLAYED.

NOTE: IF NO MODEL IS SELECTED, THE INDEX IS FOR ALL MODELS.

The screenshot displays the 'Labor Operation Time Schedule' web application. The top navigation bar includes tabs for 'GROUP INDEX', 'ILLUSTRATION INDEX', 'TEXT INDEX', 'POSITION CODE INDEX', 'APPLICABLE MODELS', and 'INSTRUCTIONS'. The 'TEXT INDEX' tab is active. On the left, a navigation menu shows 'ALPHABETICAL INDEX' selected, with 'NUMERICAL INDEX' as an option. Below this, a list of categories is shown, with 'ALL INDEX' highlighted. The main content area is a table with two columns: 'DESCRIPTION' and 'LABOR OP.NO.'. The table lists various mechanical components and their replacement labor operation numbers.

DESCRIPTION	LABOR OP.NO.
ABSORBER, FRONT SEAT SUSPENSION ... REPLACEMENT	521164 10
ABSORBER, FRONT SEAT SUSPENSION ... REPLACEMENT	521264 10
ABSORBER, REAR SEAT ... REPLACEMENT	521561 10
ACCUMULATOR ASSEMBLY, HYDRAULIC BRAKE BOOSTER ... REPLACEMENT	351314 10
ACCUMULATOR ASSEMBLY, T/M ... REPLACEMENT	233870 10
ACTUATOR ASSEMBLY, AUTO CRUISE, (EXCEPT ELECTRICAL) ... REPLACEMENT	171410 10
ACTUATOR, ACTIVE EXHAUST ... REPLACEMENT	158110 10
ACTUATOR, AUTO-CRUISE (SPEED CONTROL) (ELECTRIC) ... REPLACEMENT	178101 10
ACTUATOR, CAMSHAFT POSITION ... REPLACEMENT	118601 10
ACTUATOR, CAMSHAFT POSITION ... REPLACEMENT	118601 10
ACTUATOR, CAMSHAFT POSITION (EXHAUST SIDE) ... REPLACEMENT	118603 10
ACTUATOR, CAMSHAFT POSITION (INTAKE SIDE) ... REPLACEMENT	118602 10
ACTUATOR, CAMSHAFT POSITION (LEFT BANK) (V6 ENGINE) .....REPLACEMENT	118601 86
ACTUATOR, CAMSHAFT POSITION (LEFT BANK) (V6 ENGINE) .....REPLACEMENT	118601 86
ACTUATOR, CAMSHAFT POSITION (RIGHT BANK) (V6 ENGINE) .....REPLACEMENT	118601 84
ACTUATOR, CAMSHAFT POSITION (RIGHT BANK) (V6 ENGINE) .....REPLACEMENT	118601 84
ACTUATOR, CONVERTIBLE TOP ROTARY ... REPLACEMENT	428109 10
ACTUATOR, CONVERTIBLE TOP TONNEAU COVER LATCH ... REPLACEMENT	428136 10
ACTUATOR, CONVERTIBLE TOP TONNEAU COVER PANEL ... REPLACEMENT	428135 10
ACTUATOR, DIFFERENTIAL LOCK ... REPLACEMENT	278101 10
ACTUATOR, DOOR LOCK, (FRONT DOOR) ... REPLACEMENT	428111 10
ACTUATOR, DOOR LOCK, (HATCH/BACK DOOR) ... REPLACEMENT	428113 10
ACTUATOR, DOOR LOCK, (REAR DOOR) ... REPLACEMENT	428112 10
ACTUATOR, FREE-WHEEL CLUTCH ... REPLACEMENT	268101 10
ACTUATOR, No.5 ROOF BOW ... REPLACEMENT	428138 10
ACTUATOR, No.5 ROOF BOW LOCK ... REPLACEMENT	428137 10
ACTUATOR, SHOCK ABSORBER, (FRONT) ... REPLACEMENT	338111 10
ACTUATOR, SHOCK ABSORBER, (REAR) ... REPLACEMENT	348111 10

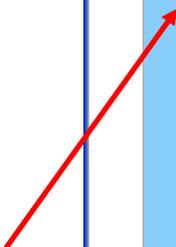
## POSITION CODE INDEX SCREEN

POSITION CODE INDEX IS FOR ALL MODELS.

CODE	DESCRIPTION
<b>11. ENGINE</b>	
110010	ENGINE ASSEMBLY
110011	SHORT ENGINE ASSEMBLY
<b>11 - 11</b>	<b>CYLINDER BLOCK, ENGINE, GENERAL</b>
111110	CYLINDER BLOCK ASSEMBLY
<b>11 - 12</b>	<b>CYLINDER HEAD, ENGINE, GENERAL</b>
111210	HEAD ASSEMBLY, CYLINDER
111221	GASKET, CYLINDER HEAD
<b>11 - 13</b>	<b>CASE &amp; COVER, ENGINE, GENERAL</b>
111310	ROCKER COVER ASSEMBLY
111311	GASKET, ROCKER COVER
111320	OIL PAN ASSEMBLY
111321	GASKET, OIL PAN (LIQUID GASKET)
111324	OIL PAN, UPPER
111325	GASKET, UPPER OIL PAN
111326	OIL PAN, LOWER
111327	GASKET, LOWER OIL PAN
111330	FRONT CASE ASSEMBLY
111331	GASKET, FRONT CASE
111336	CASE, TIMING CHAIN (GEAR)
111337	GASKET, TIMING CHAIN (GEAR) CASE
111351	COVER, TIMING BELT FRONT UPPER
111352	COVER, TIMING BELT FRONT LOWER
111358	COVER, TIMING BELT FRONT CENTER
111359	COVER, TIMING BELT FRONT
<b>11 - 21</b>	<b>PISTON, ENGINE, GENERAL</b>
112110	PISTON
112120	PISTON RING
<b>11 - 22</b>	<b>CONNECTING ROD, ENGINE, GENERAL</b>

## LABOR OPERATION TIME TABLE SCREEN

(1) THE COLUMN (ROW) WILL BE TURNED BLUE BY CLICKING IT.

(1) 

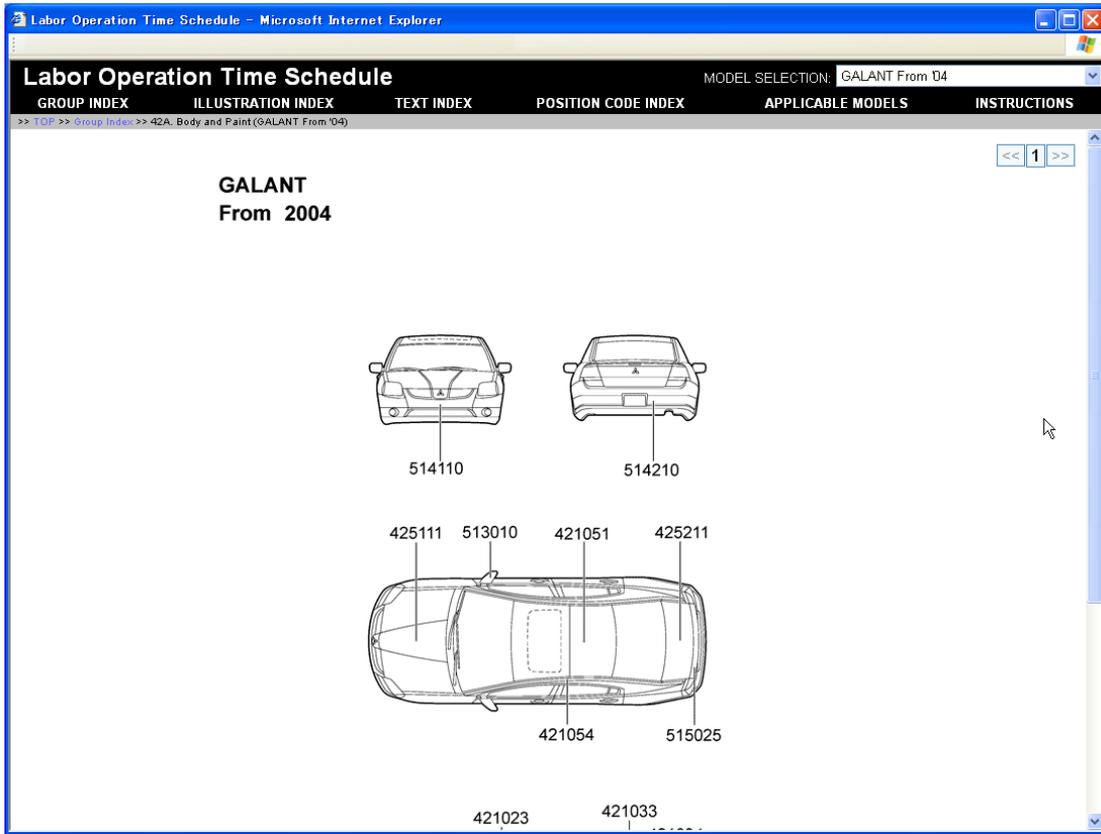
CODE	W/G	DESCRIPTION	HOUR
111110 10	P1	CYLINDER BLOCK ASSEMBLY ... REPLACEMENT [Incl.] Engine assembly - R&I Engine - adjustment Belt, timing - R&I Oil pan assembly - R&I Pump assembly, oil - R&I Front case (cover) (oil pump case) - R&I Gasket - replace <b>IF THE CYLINDER HEAD IS OVERHAULED IN CONJUNCTION WITH THE INSTALLATION OF AN ENGINE BLOCK, USE THE 'ADD ON' LABOR OPERATION (EXAMPLE 111110A1) INSTEAD OF THE REGULAR LABOR OPERATION FOR A HEAD OVERHAUL (EXAMPLE 11121020).</b> [Additional time allowance] C7 ... 6G7 (3.0L, 3.5L, 3.8L V6) 3.1 G1 ... 6G7 (3.0L, 3.5L, 3.8L V6), MIVEC engine 0.3 [Related operation] A1 ... Head assembly, cylinder ... overhaul 5.5 A2 ... Head assembly, cylinder (for V6 engine) ... overhaul 6.2 B3 ... Head assembly, cylinder (for V6, MIVEC engine) ... overhaul 7.5 B5 ... Theft prevention engine control module cover - R&I 0.3	16.0
111210 10	P1	HEAD ASSEMBLY, CYLINDER ... REPLACEMENT [Incl.] Gasket, cylinder head - replace Related parts, valve timing - R&I Engine - adjustment Valve - lapping and correction Belt, timing - R&I (some vehicles) <b>IF THE CYLINDER HEAD IS OVERHAULED IN CONJUNCTION WITH THE INSTALLATION OF A SHORT ENGINE, USE THE 'ADD ON' LABOR OPERATION (EXAMPLE 110011A1) INSTEAD OF THE REGULAR LABOR OPERATION FOR A HEAD OVERHAUL (EXAMPLE 11121020).</b> [Related operation] A5 ... Theft prevention engine control module cover - R&I 0.3	7.9

NOTE: IF NO MODEL IS SELECTED, THE FOLLOWING SCREEN WILL BE DISPLAYED.

CODE	W/G	DESCRIPTION	HOUR
MODEL IS NOT SELECTED. PLEASE SELECT THE MODEL.			

## 42A BODY AND PAINT

LABOR OPERATION CODE CAN BE LOCATED BY USING ILLUSTRATION.



CODE	DESCRIPTION	HOUR
424211 3P	PANEL, REAR (SLIDE) DOOR ... PARTIAL PAINT (RIGHT SIDE)	2.1
424211 3Q	PANEL, REAR (SLIDE) DOOR ... AREA ALL PAINT (RIGHT SIDE)	4.2
424244 2P	HANDLE, REAR (SLIDE) DOOR OUTSIDE ... PARTIAL PAINT (LEFT SIDE)	0.7
424244 2Q	HANDLE, REAR (SLIDE) DOOR OUTSIDE ... AREA ALL PAINT (LEFT SIDE)	1.4
424244 3P	HANDLE, REAR (SLIDE) DOOR OUTSIDE ... PARTIAL PAINT (RIGHT SIDE)	0.7
424244 3Q	HANDLE, REAR (SLIDE) DOOR OUTSIDE ... AREA ALL PAINT (RIGHT SIDE)	1.4
425111 1P	PANEL, HOOD ... PARTIAL PAINT	3.4
425111 1Q	PANEL, HOOD ... AREA ALL PAINT	6.7
425211 1P	PANEL, DECK LID ... PARTIAL PAINT	1.8
425211 1Q	PANEL, DECK LID ... AREA ALL PAINT	3.6
425311 1Q	LID, FUEL FILLER ... AREA ALL PAINT	1.6
513010 2P	MIRROR ASSEMBLY, REAR VIEW ... PARTIAL PAINT (LEFT SIDE)	0.8
513010 2Q	MIRROR ASSEMBLY, REAR VIEW ... AREA ALL PAINT (LEFT SIDE)	1.6
513010 3P	MIRROR ASSEMBLY, REAR VIEW ... PARTIAL PAINT (RIGHT SIDE)	0.8
513010 3Q	MIRROR ASSEMBLY, REAR VIEW ... AREA ALL PAINT (RIGHT SIDE)	1.6
514110 1P	BUMPER ASSEMBLY, FRONT ... PARTIAL PAINT	3.8
514110 1Q	BUMPER ASSEMBLY, FRONT ... AREA ALL PAINT	7.7
514210 1P	BUMPER ASSEMBLY, REAR ... PARTIAL PAINT	3.4
514210 1Q	BUMPER ASSEMBLY, REAR ... AREA ALL PAINT	6.9
515025 1P	SPOILER, REAR AIR ... PARTIAL PAINT	0.9
515025 1Q	SPOILER, REAR AIR ... AREA ALL PAINT	1.8

## APPLICABLE MODELS

APPLICABLE MODELS WILL BE DISPLAYED IN SEPARATE WINDOW.

http://www.ryom-okazaki.com - Labor Operation Time Schedule - Microsoft Internet Explorer

**APPLICABLE MODELS**

MIRAGE -- From '89 Up to '92  
MIRAGE -- From '93 Up to '96  
MIRAGE -- From '97 Up to '02  
LANCER -- From '02 Up to '06  
LANCER -- From '07  
LANCER WAGON -- From '04  
LANCER Evolution -- From '04  
GALANT -- From '89 Up to '93  
GALANT -- From '94 Up to '98  
GALANT -- From '99 Up to '03  
GALANT -- From '04  
DIAMANTE -- From '92 Up to '96  
DIAMANTE -- From '97 Up to '04  
EXPO LRV -- From '92 Up to '96  
EXPO -- From '92 Up to '96  
ECLIPSE -- From '90 Up to '94  
ECLIPSE & SPYDER -- From '95 Up to '99  
ECLIPSE & SPYDER -- From '00 Up to '05  
ECLIPSE & SPYDER -- From '06  
3000GT & SPYDER -- From '91 Up to '99  
MONTERO -- From '92 Up to '00  
MONTERO -- From '01 Up to '06  
MONTERO SPORT -- From '92 Up to '04  
OUTLANDER -- From '03 Up to '06  
OUTLANDER -- From '07  
ENDEAVOR -- From '04

**MIRAGE -- From '89 Up to '92**

Model code		Engine model	Transmission model			
Vehicle model	Model series		New	Old		
C52A	MFSEXL2M	4G15 (1.5L-4cyl.) (MPI)	F4M2	KM20		
	MFSEXL7M					
	MFSEL2M					
	MFSEL7M		F3A2	KM17		
	MKDEL2M					
	MKDEL7M					
	MiMEL2M					
	MiMEL7M					
	MKSEL2M					
	MESEL7M		F5M2	KM20		
	MNDEL2M					
	MNDEL7M					
	MNMEL2M					
MNMEL7M	C53A	4G61 (1.6L-4cyl.) (DOHC MPI)	F5M3	KM21		
MNPTL2M						
MNPTL7M			C62A	4G15 (1.5L-4cyl.) (MPI)	F3A2	KM17
SKDEL2M						
SKDEL7M						
SKDES2M						
SKDES7M	SKDEL2M	SKDEL7M				
SKJEL2M						
SKJEL7M						
SKMEL2M						
SKMEL7M						

## INSTRUCTIONS

INSTRUCTIONS WILL BE DISPLAYED IN SEPARATE WINDOW.

http://www.ryom-okazaki.com - Labor Operation Time Schedule - Microsoft Internet Explorer

**INSTRUCTIONS FOR USING THIS MANUAL**

- EXPLANATION OF OPERATION CODES
- SELECTING THE PROPER OPERATION CODES
- CLAIMING FOR ADDITIONAL TIME ALLOWANCES
- EXPLANATION OF CAUSAL CODES
- LABOR TIME ALLOWANCES
- HOW TO READ THIS LABOR OPERATION TIME SCHEDULE
- ADDITIONAL LABOR OPERATION CODING
- GRAPHIC ILLUSTRATIONS
- ENGINE AND TRANSMISSION MODELS AND THEIR ABBREVIATION
- DEFINITION OF TERMS
- PRIOR WORK AUTHORIZATION (PWA)
- REQUESTS FOR OPERATION ADDITIONS OR LABOR TIME REVIEWS
- MITSUBISHI CAUSAL CODES - NATURE CODE
- MITSUBISHI CAUSAL CODES - CAUSE CODE
- HOW TO SELECT PAINT AND BODY OPERATIONS

**INSTRUCTIONS FOR USING THIS MANUAL**

Basic instructions for using this manual are outlined below. Please pay careful attention and review all instructions prior to actually using the manual.

**1. EXPLANATION OF OPERATION CODES**

Each labor operation is eight (8) characters long and is made up of four distinct parts. The first two characters indicate the major component, the second two characters indicate a specific component of the major group, the third two characters point to a part of the specific component, while the last two characters indicate what type of repair work was performed (repair, replace, adjust, etc.).

Operation = 42411110 Replace Front Door Panel

Body	Front Door	Panel	Replace
42	41	11	10

**2. SELECTING THE PROPER OPERATION CODES**

If no operation is found, then an "Actual Time" operation must be created by finding the closest possible operation and converting the last two digits to "00" (NUMERALS). Refer to the closest operation code listed and change the last two characters to "00". You must then verify that that operation applies to the model vehicle you are repairing. If that operation code does not apply to the model you are repairing, you must then select another operation code that does apply.

The time claimed must be the Actual Time. A PWA is required if the amount of Actual Time claimed exceeds one hour.

**EXAMPLE OF DETERMINING AN "ACTUAL TIME OPERATION"**

PROBLEM: LEAKING OIL COOLER ASSEMBLY - REPAIR FITTING  
CLOSEST POSITION CODE = 123010 (OIL COOLER)  
CLOSEST OPERATION CODE = 123010 10 (REPLACE OIL COOLER)  
CHANGE THE LAST TWO DIGITS TO "00" = 123010 00 (REPAIR FITTING)  
TIME LISTED TO REPLACE AN OIL COOLER: 7HRS.  
ACTUAL TIME TO REPAIR FITTING: .4HRS.

ENTER .4 HOURS ON THE CLAIM. IF REPAIR HAD TAKEN MORE THAN ONE HOUR, THEN A PWA WOULD BE NEEDED IN ORDER TO SUBMIT THE WARRANTY CLAIM.