SERVICE BULLETIN

MITSUBISHI MOTORS

GLOBAL AFTER SALES OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : INFORMATION	ISSUE NO. : MSB-13EXML11-002B	DATE : 2013-04-12
SUBJECT : ABOLITION OF TIMING CHAIN UPPER GUIDE		<Destination/Model> (AS PER ATTACHED) <M/Y> 10-13
GROUP : ENGINE		CY0A/CX0A/CZ4A/CW0W

1. Description :

See the attached document for the information about the change of mention in the applicable service manual.

2. Applicable service manual :

See the attached document

3. Details :

See the attached document

※Time for enforcement : From Oct, 2009

MMNA

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2010 Lancer Service manual	MSCD-106B-2010	Gr11A:TIMING CHAIN REMOVALAND INSTALLATION (M112-00-721-31600-01)	Attached sheet4(1/5)
		Gr11A:CAMSHAFT REMOVALAND INSTALLATION (M112-00-781-02800-01)	Attached sheet4(2/5)
		Gr11C:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-32700-01)	Attached sheet4(1/5)
		Gr11C:CAMSHAFT REMOVALAND INSTALLATION (M112-00-781-03900-01)	Attached sheet4(2/5)
		Gr11E:TIMING CHAIN REMOVALAND INSTALLATION (M112-00-721-33800-01)	Attached sheet4(1/5)
		Gr11E:CAMSHAFT REMOVALAND INSTALLATION (M112-00-781-04000-01)	Attached sheet4(2/5)
2010 Lancer Sport back Service manual	MSCD-014B-2010	Gr11A:TIMING CHAIN REMOVALAND INSTALLATION (M112-00-721-27500-01)	Attached sheet4(1/5)
		Gr11A:CAMSHAFT REMOVALAND INSTALLATION (M112-00-780-89800-01)	Attached sheet4(2/5)
		Gr11C:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-28600-01)	Attached sheet4(1/5)
		Gr11C:CAMSHAFT REMOVALAND INSTALLATION (M112-00-780-90600-01)	Attached sheet4(2/5)
2010 Lancer Evolution Service manual	MSCD-206B-2010	Gr11A:TIMING CHAIN REMOVALAND INSTALLATION (M112-00-721-37200-01)	Attached sheet4(1/5)
		Gr11A:CAMSHAFT REMOVALAND INSTALLATION (M112-00-781-08400-01)	Attached sheet4(2/5)
2010 Outlander Service manual	MSCD-007B-2010	Gr11A:TIMING CHAIN REMOVALAND INSTALLATION (M112-00-721-25300-01)	Attached sheet4(1/5)
		Gr11A:CAMSHAFT REMOVALAND INSTALLATION (M112-00-781-01700-01)	Attached sheet4(2/5)

EU

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2010 LANCER (CY0A) Work shop manual	CG1E10E1-CD (English) CG1S10E1-CD (Spanish) CG1F10E1-CD (French) CG1G10E1-CD (German) CG1I10E1-CD (Italian)	Gr11C:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-17800-01)	Attached sheet4 (3/5)
		Gr11C:CAMSHAFT REMOVAL AND INSTALLATION (M112-02-310-49100-01)	Attached sheet4 (4/5)
		Gr11D:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-660-91500-01)	Attached sheet4 (5/5)
		Gr11E:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-18900-01)	Attached sheet4 (3/5)
		Gr11E:CAMSHAFT REMOVAL AND INSTALLATION (M112-02-310-50900-01)	Attached sheet4 (4/5)
		Gr11F:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-660-92600-01)	Attached sheet4 (5/5)
		Gr11I:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-19000-01)	Attached sheet4 (3/5)
		Gr11I:CAMSHAFT REMOVAL AND INSTALLATION (M112-00-780-98400-01)	Attached sheet4 (4/5)
		Gr11J:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-660-89600-01)	Attached sheet4 (5/5)
2010 LANCER SPORTBACK (CX0A) Work shop manual	CG4E10E1-CD (English) CG4S10E1-CD (Spanish) CG4F10E1-CD (French) CG4G10E1-CD (German) CG4I10E1-CD (Italian)	Gr11C:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-13400-01)	Attached sheet4 (3/5)
		Gr11C:CAMSHAFT REMOVAL AND INSTALLATION (M112-02-310-48000-01)	Attached sheet4 (4/5)
		Gr11D:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-660-91500-01)	Attached sheet4 (5/5)
		Gr11E: TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-14500-01)	Attached sheet4 (3/5)
		Gr11E:CAMSHAFT REMOVAL AND INSTALLATION (M112-00-780-95100-01)	Attached sheet4 (4/5)
		Gr11F:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-660-89600-01)	Attached sheet4 (5/5)
2010 OUTLANDER Work shop manual	CGXE10E1-CD (English) CGXS10E1-CD (Spanish) CGXF10E1-CD (French) CGXG10E1-CD (German) CGXI10E1-CD (Italian)	Gr11E:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-26400-01)	Attached sheet4 (3/5)
		Gr11E:CAMSHAFT REMOVAL AND INSTALLATION (M112-02-310-55400-01)	Attached sheet4 (4/5)
		Gr11F:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-660-93700-01)	Attached sheet4 (5/5)
		Gr11I:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-51000-01)	Attached sheet4 (3/5)
		Gr11I:CAMSHAFT REMOVAL AND INSTALLATION (M112-02-310-62800-01)	Attached sheet4 (4/5)
		Gr11J:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-661-01500-01)	Attached sheet4 (5/5)

EXP/GCC/HONG KONG/SOUTH AFRICA/ARGENTINE

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2010 LANCER/LANCER EX Work shop manual	PWME0901R（English） PWMS0902R（Spanish） HONG KONG:DRAFT SOUTH AFRICA:DRAFT ARGENTINA:DRAFT	Gr11C:TIMING CHAIN REMOVAL AND INSTALLATION(M112-00-721-23100-01)	Attached sheet4 (3/5)
		Gr11C:CAMSHAFT REMOVAL AND INSTALLATION(M112-02-310-62800-01)	Attached sheet4 (4/5)
		Gr11D:TIMING CHAIN REMOVAL AND INSTALLATION(M113-02-660-92600-01)	Attached sheet4 (5/5)

MMAL/NZ

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2010 LANCER (CY0A) Work shop manual	MR936920 (NZ：DRAFT)	Gr11A:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-43500-01)	Attached sheet4 (3/5)
		Gr11A:CAMSHAFT REMOVAL AND INSTALLATION (M112-02-310-57600-01)	Attached sheet4 (4/5)
		Gr11B:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-661-02600-01)	Attached sheet4 (5/5)
		Gr11C:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-44600-01)	Attached sheet4 (3/5)
		Gr11C:CAMSHAFT REMOVAL AND INSTALLATION (M112-00-781-14700-01)	Attached sheet4 (4/5)
		Gr11D:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-660-99300-01)	Attached sheet4 (5/5)
		Gr11E:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-45700-01)	Attached sheet4 (3/5)
		Gr11E:CAMSHAFT REMOVAL AND INSTALLATION (M112-02-310-58700-01)	Attached sheet4 (4/5)
		Gr11F:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-661-00400-01)	Attached sheet4 (5/5)
2010 LANCER SPORTBACK(CX0A) Work shop manual	MR936922 (NZ：DRAFT)	Gr11A:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-46800-01)	Attached sheet4 (3/5)
		Gr11A:CAMSHAFT REMOVAL AND INSTALLATION (M112-02-310-59800-01)	Attached sheet4 (4/5)
		Gr11B:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-660-50600-01)	Attached sheet4 (5/5)
		Gr11C:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-48000-01)	Attached sheet4 (3/5)
		Gr11C:CAMSHAFT REMOVAL AND INSTALLATION (M112-00-781-16900-01)	Attached sheet4 (4/5)
		Gr11D:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-660-69200-01)	Attached sheet4 (5/5)
		Gr11E:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-49100-01)	Attached sheet4 (3/5)
		Gr11E:CAMSHAFT REMOVAL AND INSTALLATION (M112-02-310-60600-01)	Attached sheet4 (4/5)
		Gr11F:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-660-70000-01)	Attached sheet4 (5/5)

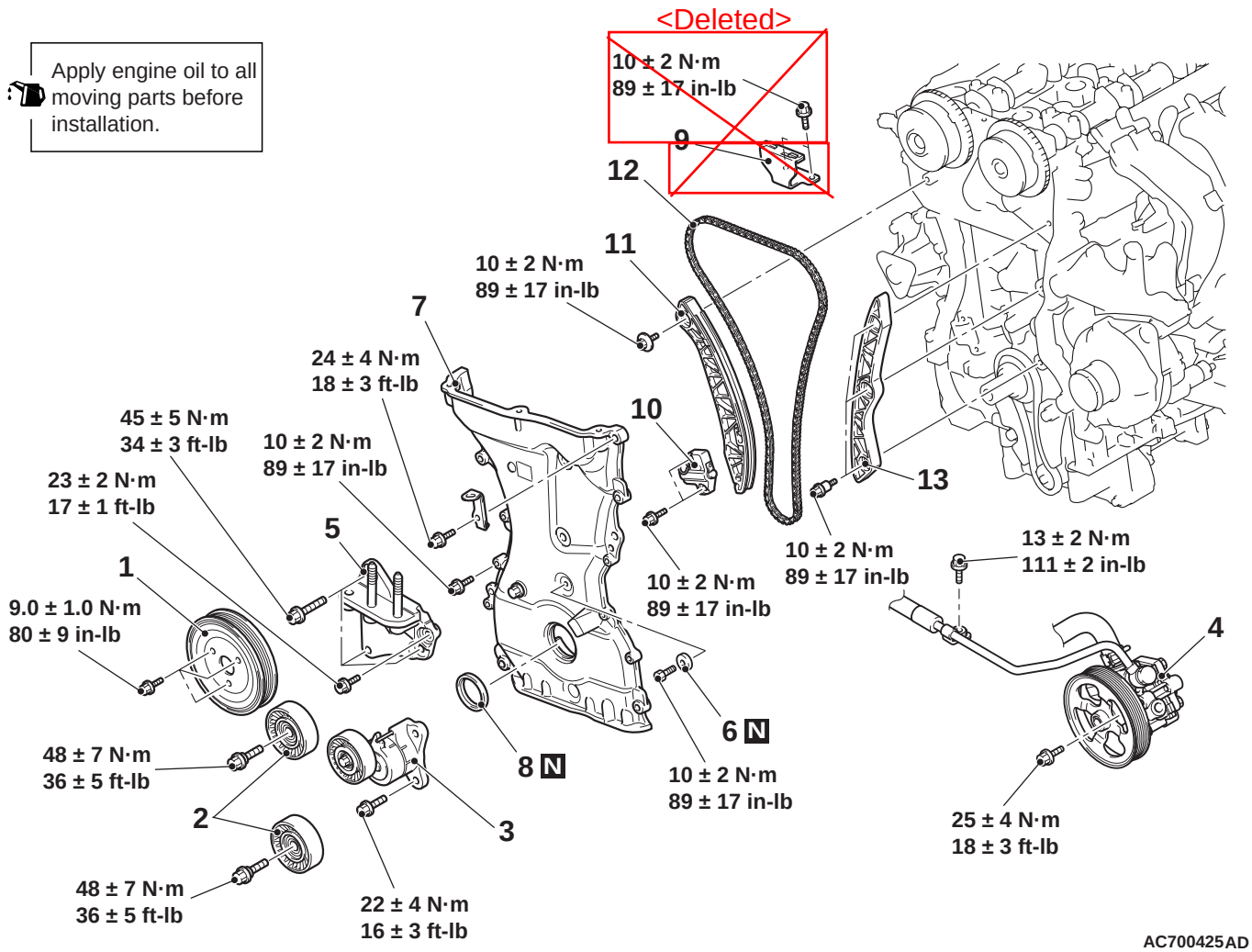
RS MODEL / EU/RUSSIA / ENGLAND / ISRAEL / HONG KONG / TAIWAN

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2010 LANCER EVOLUTION Work shop manual	CGEE10E1-CD (English) CGES10E1-CD (Spanish) CGEF10E1-CD (French) CGEG10E1-CD (German) CGEI10E1-CD (Italian) RUSSIA:N/A HONG KONG:DRAFT TAIWAN:DRAFT	Gr11A:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-21900-01)	Attached sheet4 (3/5)
		Gr11A:CAMSHAFT REMOVAL AND INSTALLATION (M112-00-780-99500-01)	Attached sheet4 (4/5)
		Gr11B:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-660-65800-01)	Attached sheet4 (5/5)
2011 LANCER EVOLUTION Work shop manual	CGEE11E1-CD (English) CGES11E1-CD (Spanish) CGEF11E1-CD (French) CGEG11E1-CD (German) CGEI11E1-CD (Italian) RUSSIA:N/A HONG KONG:DRAFT TAIWAN:DRAFT	Gr11A:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-21900-01)	Attached sheet4 (3/5)
		Gr11A:CAMSHAFT REMOVAL AND INSTALLATION (M112-00-780-99500-01)	Attached sheet4 (4/5)
2012 LANCER EVOLUTION Work shop manual	CGEE12E1-CD (English) CGES12E1-CD (Spanish) CGEF12E1-CD (French) CGEG12E1-CD (German) CGEI12E1-CD (Italian) RUSSIA:N/A HONG KONG:DRAFT TAIWAN:DRAFT	Gr11A:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-21900-01)	Attached sheet4 (3/5)
		Gr11A:CAMSHAFT REMOVAL AND INSTALLATION (M112-00-780-99500-01)	Attached sheet4 (4/5)
2013 LANCER EVOLUTION Work shop manual	CGEE13E1-CD (English) CGES13E1-CD (Spanish) CGEF13E1-CD (French) CGEG13E1-CD (German) CGEI13E1-CD (Italian) RUSSIA:N/A HONG KONG:DRAFT TAIWAN:DRAFT	Gr11A:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-21900-01)	Attached sheet4 (3/5)
		Gr11A:CAMSHAFT REMOVAL AND INSTALLATION (M112-00-780-99500-01)	Attached sheet4 (4/5)

RS MODEL /GCC / MMAL / NZ / CHINA / BRUNEI / SINGAPORE / MALAYSIA / INDIA

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2010 LANCER EVOLUTION Work shop manual <RS MODEL/GCC/CHINA/ AUSTRALIA/NEW ZEALAND /BRUNEI/SINGAPORE/ MALAYSIA>	PWSE0905R （NZ,CHINA：DRAFT）	Gr11A:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-21900-01)	Attached sheet4 (3/5)
		Gr11A:CAMSHAFT REMOVAL AND INSTALLATION (M112-00-780-99500-01)	Attached sheet4 (4/5)
		Gr11B:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-660-65800-01)	Attached sheet4 (5/5)
2011 LANCER EVOLUTION Work shop manual <RS MODEL/GCC/INDIA/ AUSTRALIA/NEW ZEALAND /BRUNEI/SINGAPORE/ MALAYSIA>	PWSE1008R （NZ,CHINA：DRAFT）	Gr11A:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-21900-01)	Attached sheet4 (3/5)
		Gr11A:CAMSHAFT REMOVAL AND INSTALLATION (M112-00-780-99500-01)	Attached sheet4 (4/5)
		Gr11B:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-660-65800-01)	Attached sheet4 (5/5)
2012 LANCER EVOLUTION Work shop manual <RS MODEL/GCC/CHINA/ AUSTRALIA/NEW ZEALAND /BRUNEI/SINGAPORE/ MALAYSIA>	PWSE1113R （NZ,CHINA：DRAFT）	Gr11A:TIMING CHAIN REMOVAL AND INSTALLATION (M112-00-721-21900-01)	Attached sheet4 (3/5)
		Gr11A:CAMSHAFT REMOVAL AND INSTALLATION (M112-00-780-99500-01)	Attached sheet4 (4/5)
		Gr11B:TIMING CHAIN REMOVAL AND INSTALLATION (M113-02-660-65800-01)	Attached sheet4 (5/5)

REMOVAL AND INSTALLATION



AC700425AD

Removal steps

<<A>>
- Crankshaft pulley (Refer to)

>>E<<
1. Water pump pulley
2. Idler pulley
3. Auto-tensioner

<<B>>
4. Power steering oil pump assembly

<<C>>
- Engine and transaxle assembly holding
- Engine mounting insulator (Refer to GROUP 32, Engine Mounting)

Removal steps

5. Cylinder block engine front mounting bracket
6. Gasket

<<D>> >>D<<
7. Timing chain case assembly

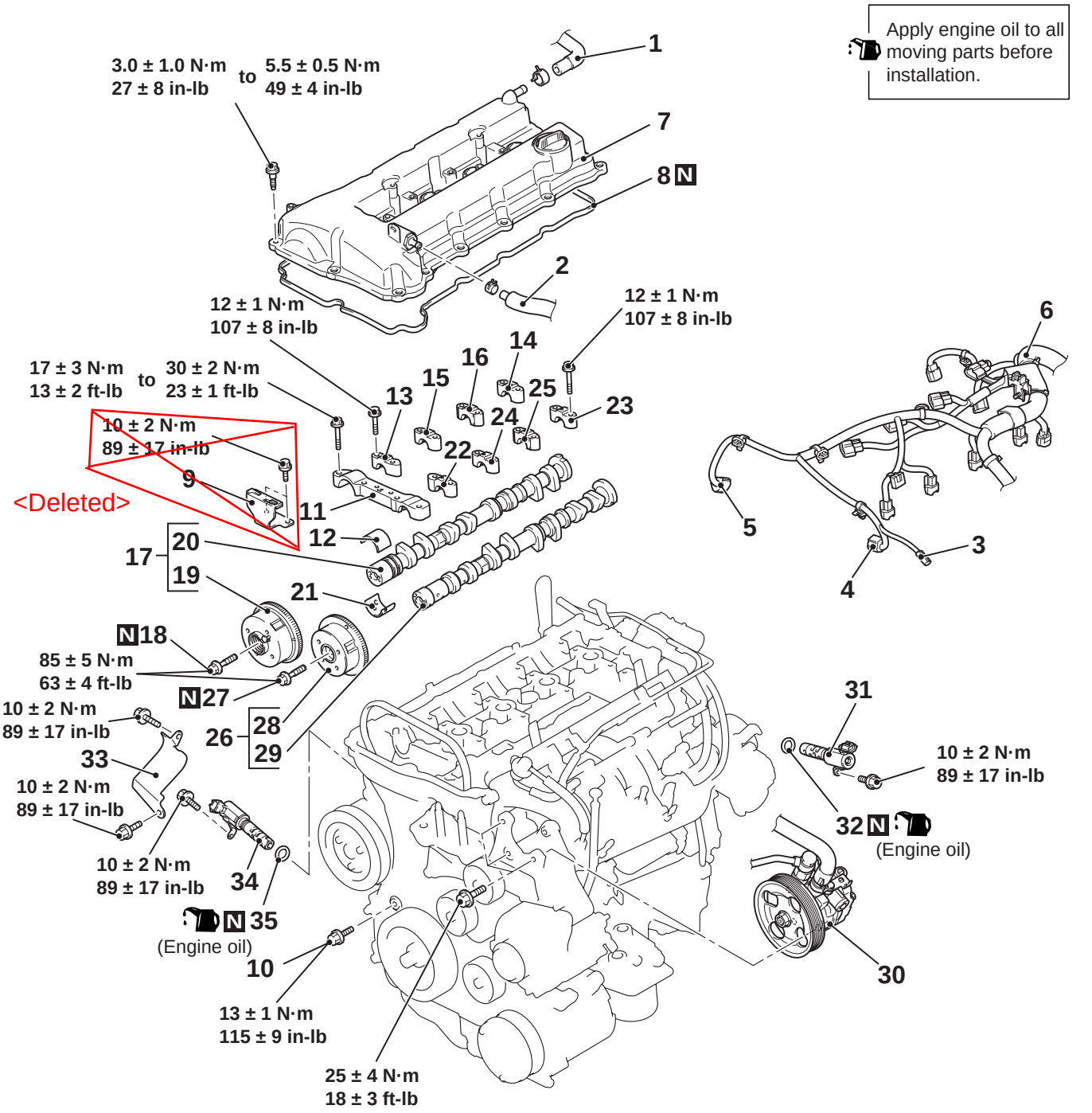
>>C<<
8. Crankshaft front oil seal

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~~9. Timing chain upper guide~~

<<E>> >>B<<
10. Timing chain tensioner
11. Timing chain tension side guide

>>A<<
12. Timing chain
13. Timing chain loose side guide

REMOVAL AND INSTALLATION



AC902500 AC

Camshaft removal steps

1. Breather hose connection
2. PCV hose connection
3. Power steering fluid pressure switch connector connection
4. Intake oil feeder control valve connector connection
5. Exhaust oil feeder control valve connector connection
6. Control harness connection

<<A>> >>G<<

<<B>>

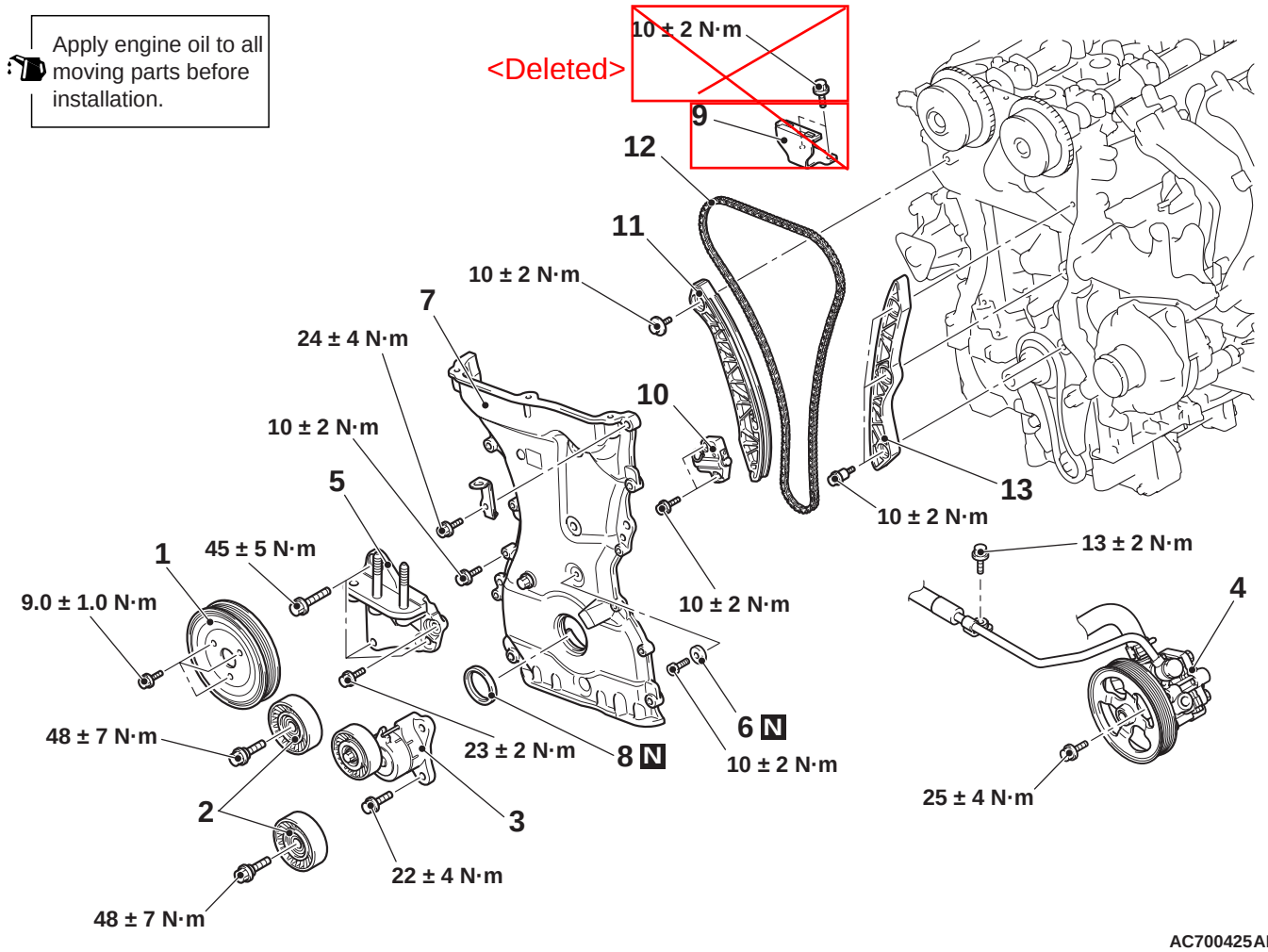
Camshaft removal steps

7. Rocker cover assembly
8. Rocker cover gasket
- Cylinder No. 1 compression top dead center setting (only at removal)
- Valve clearance adjustment (Refer to). (only at installation)

9. ~~Timing chain upper guide~~ <Deleted>

Attached sheet 4~~(2/3)~~
B (3/5)

REMOVAL AND INSTALLATION



Removal steps

<<A>> • Crankshaft pulley (Refer to)

>>E<< 1. Water pump pulley
2. Idler pulley
3. Alternator drive belt auto-tensioner

<<B>> 4. Power steering oil pump assembly

<<C>> • Engine and transmission assembly holding
• Engine mounting insulator (Refer to GROUP 32 – Engine Mounting)

Removal steps

5. Cylinder block engine front mounting bracket
6. Gasket

<<D>> >>D<< 7. Timing chain case assembly

>>C<< 8. Crankshaft front oil seal

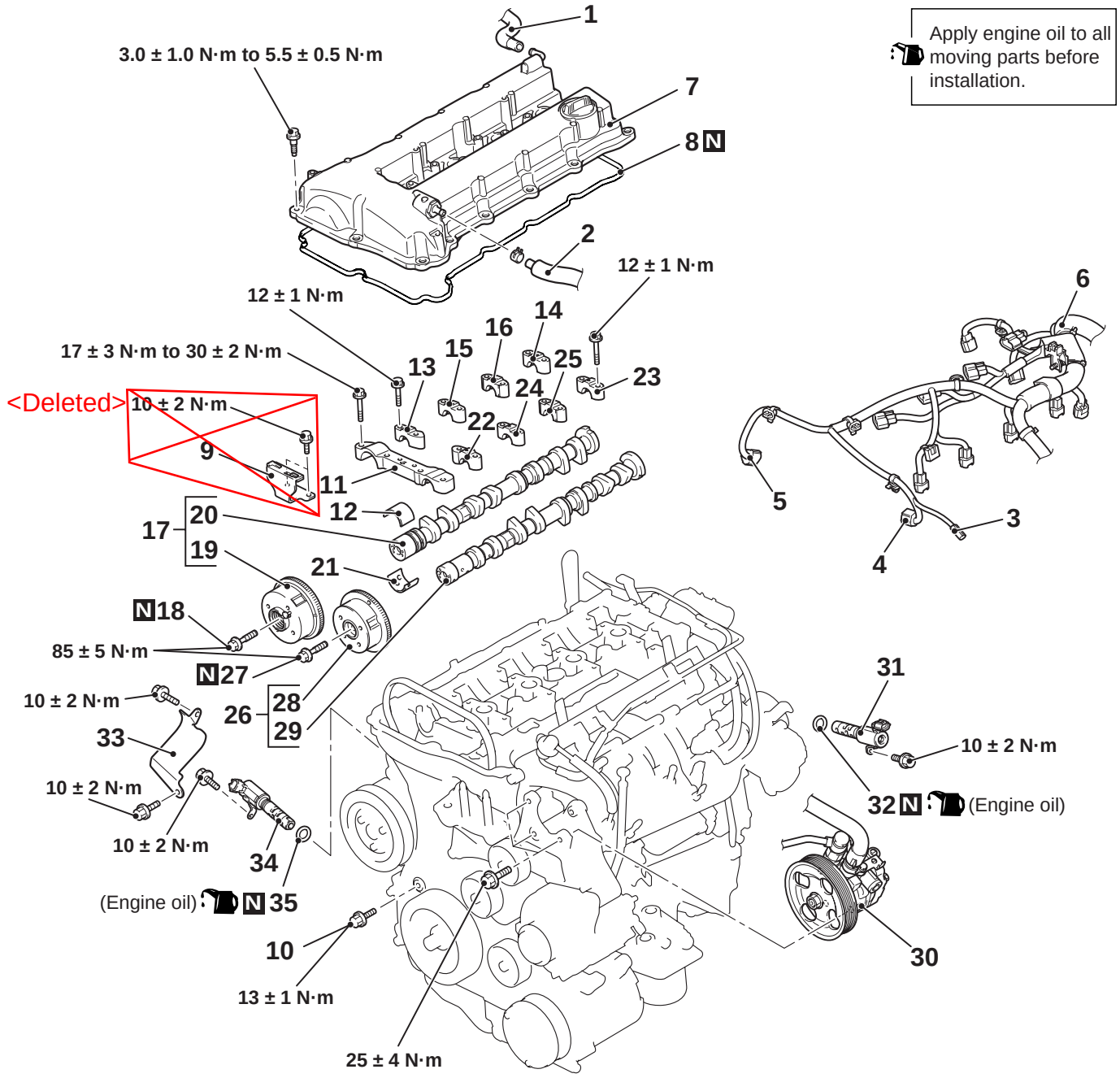
<Deleted> ~~9. Timing chain upper guide~~

<<E>> >>B<< 10. Timing chain tensioner
11. Timing chain tension side guide

>>A<< 12. Valve timing chain
13. Timing chain loose side guide

B

REMOVAL AND INSTALLATION



AC708206AD

Camshaft removal steps

1. Breather hose connection
2. PCV hose connection
3. Power steering fluid pressure switch connector connection
4. Inlet oil feeder control valve connector connection
5. Exhaust oil feeder control valve connector connection
6. Control harness connection

<<A>> >>G<<

7. Rocker cover assembly
8. Rocker cover gasket

<<B>>

Camshaft removal steps

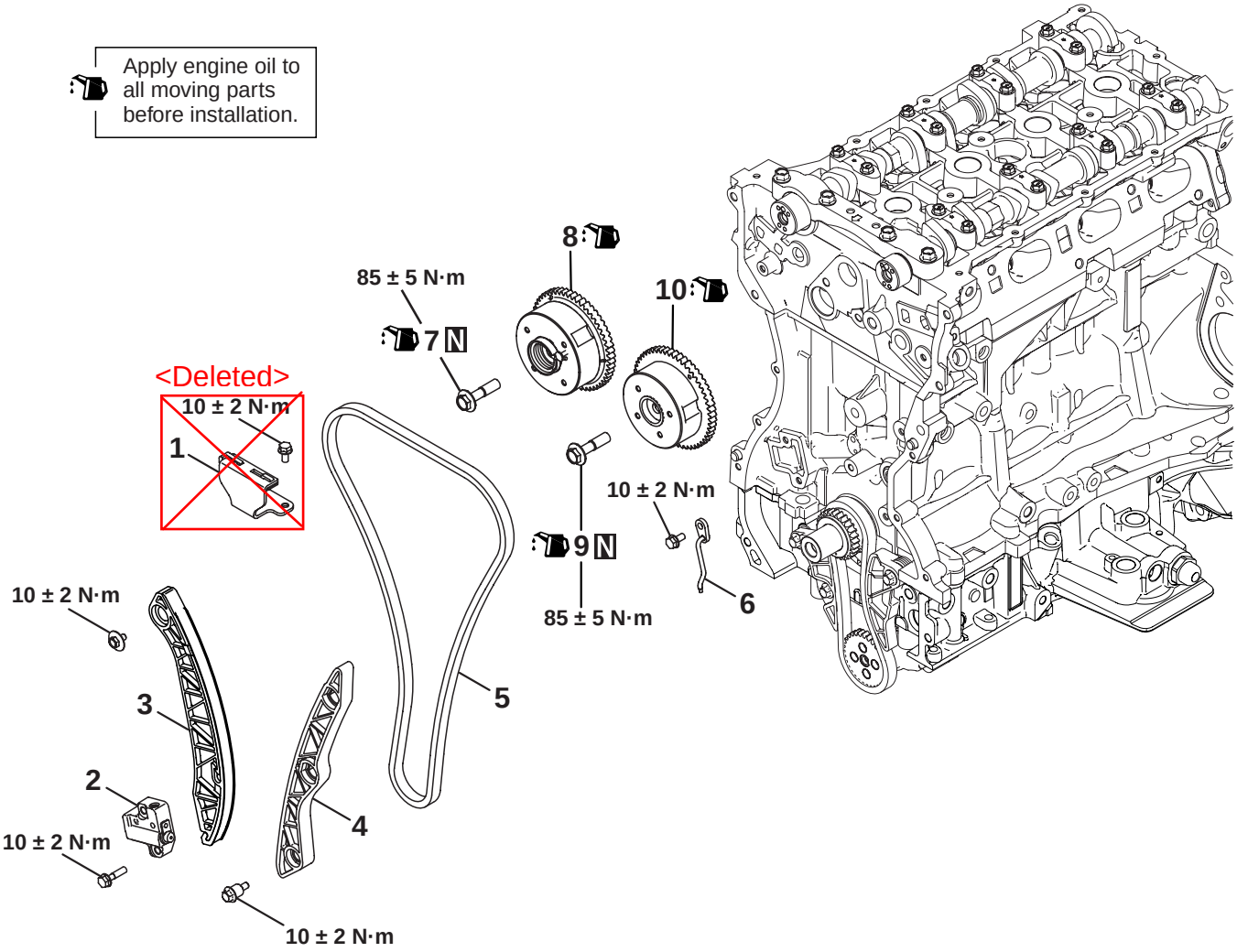
- Cylinder No. 1 compression top dead centre setting (only at removal)
- Valve clearance adjustment (Refer to). (only at installation)

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~~9. Timing chain upper guide~~

10. Service hole bolt

REMOVAL AND INSTALLATION



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Removal sequence

<Deleted> 1. ~~Chain upper guide~~
<<A>> >>D<< 2. Timing chain tensioner
3. Tensioner lever
4. Timing chain guide
>>C<< 5. Timing chain

Removal sequence

6. Oil jet
<<B>> >>B<< 7. Exhaust V.V.T. sprocket bolt
8. Exhaust V.V.T. sprocket assembly
<<C>> >>A<< 9. Inlet V.V.T. sprocket bolt
10. Inlet V.V.T. sprocket assembly