SERVICE BULLETIN

PUBLICATION GROUP, AFTER SALES SERVICE DEP.
MITSUBISHI MOTOR SALES EUROPE BV

SERVICE BULLETIN	**No.:** ESB-97E22-502e	
	Date: 1999-07-15	**<Model>** (EC, EXP) CARISMA **<M/Y>** 96-10
Subject: CORRECTION TO TRANSMISSION GEAR RATIOS AND TO TIGHTENING TORQUES		
Group: MANUAL TRANSAXLE		
CORRECTION	O. Kai - E.V.P. & G.M. After Sales Service Dept.	

1. Description:

This Service Bulletin informs you of correction to the transmission gear ratios and to tightening torques of the drain plug and the filler / level plug.

2. Applicable Manuals:

Manual	Pub. No.	Language	Page(s)
TRANSMISSION Workshop Manual	PWEE9508	(English)	22A-1-1,
	PWES9509	(Spanish)	22A-3-1,
	PWEF9510	(French)	22A-3-2a
	PWEG9511	(German)	
	PWED9512	(Dutch)	
	PWEW9513	(Swedish)	
	PWEI9508-b	(Italian)	

3. Details:

1. SPECIFICATIONS

GENERAL SPECIFICATIONS

Items		Specifications	
Model		F5MR1, F5MR2	F5MR3
Type		Manual, 5-speed, front wheel drive	Manual, 5-speed, front wheel drive
Gear ratio	1st	3.363 <Correct>	3.727
	2nd <Incorrect>	~~2.074~~ ← **2.047**	2.047
	3rd	1.321 <Correct>	1.321
	4th <Incorrect>	~~0.967~~ ← **0.966**	0.971
	5th	~~0.795~~ ← **0.794**	0.756 <Correct>
	Reverse	~~3.550~~ ← **3.545**	~~3.550~~ ← **3.545**
Final reduction ratio		~~4.067~~ ← **4.066**	~~3.294~~ ← **3.437**

<Incorrect>

TORQUE SPECIFICATIONS

Items	Specifications (Nm)
Bearing housing bolts	25
Input shaft lock nut	135
Output shaft bolt	80
Cover bolts	25
Locating pin	24
Back-up lamp switch	22 <Correct>
Drain plug	~~38~~ ← **22**
Filler/level plug <Incorrect>	~~22~~ ← **2.25**
Sealing plugs	25
Guide bushing bolts <F5MR3>	25
Differential nut <F5MR3>	130

3. TRANSMISSION

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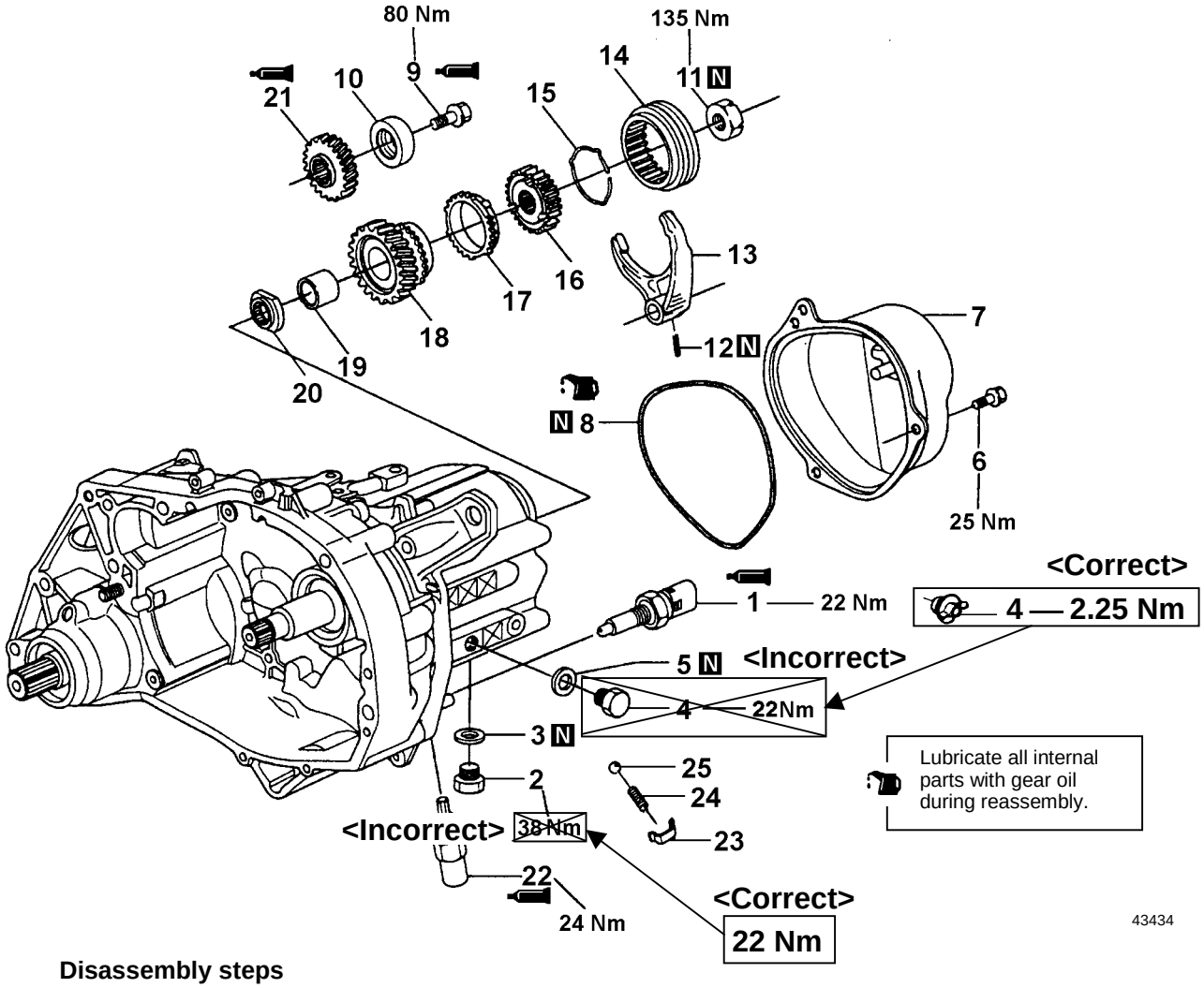
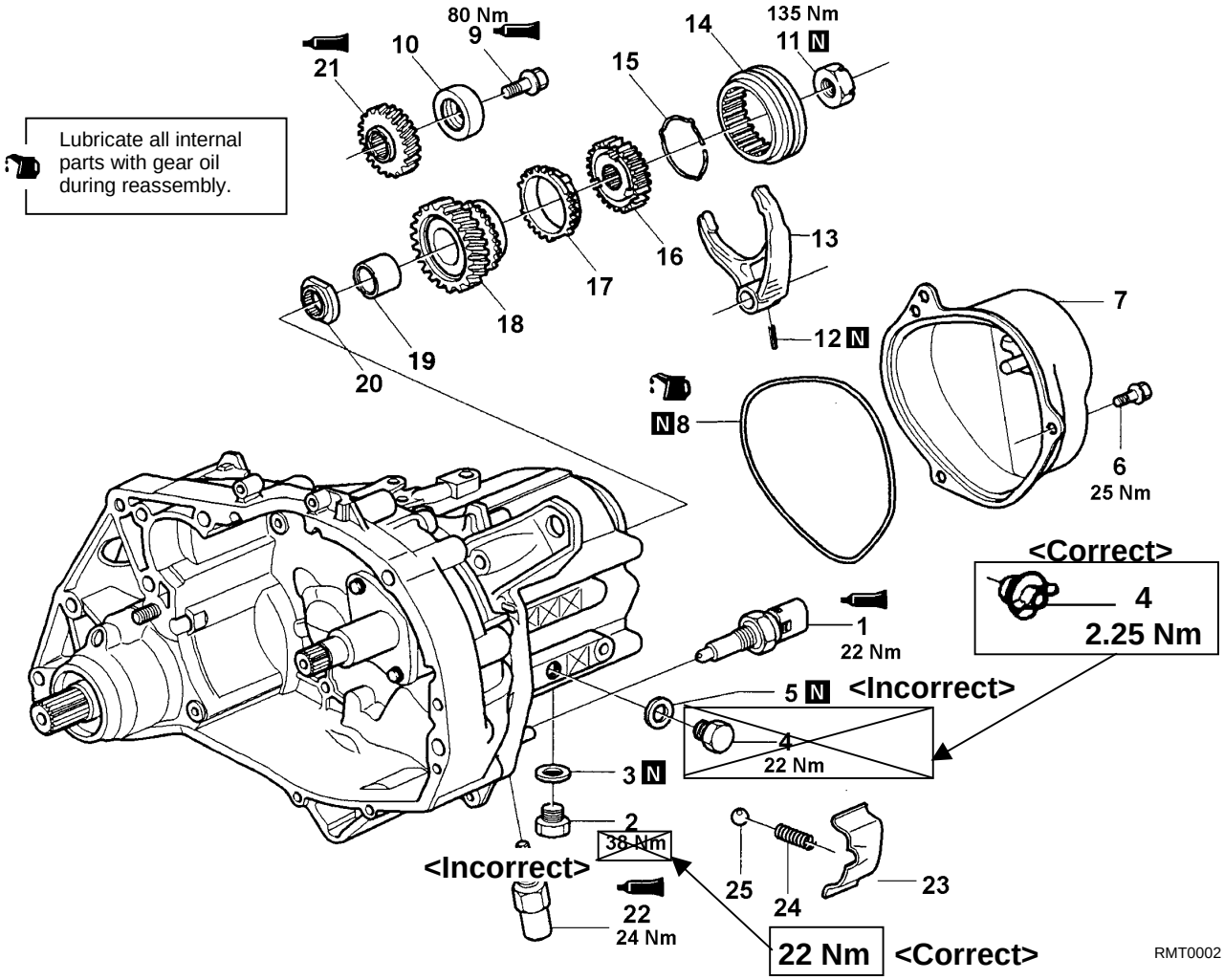
DISASSEMBLY AND REASSEMBLY <F5MR1, F5MR2>



Disassembly steps

	▶Z◀	1. Back-up lamp switch
		2. Drain plug
		3. Gasket
		4. Filler plug
		5. Gasket
◀A▶	▶Y◀	6. Bolt
◀A▶	▶Y◀	7. Rear cover
◀A▶	▶Y◀	8. O-ring
◀B▶	▶W◀	9. Bolt
◀B▶	▶W◀	10. Shim
◀B▶	▶W◀	11. Lock nut
◀C▶	▶X◀	12. Spring pin
◀C▶	▶V◀	13. 5th speed shift fork
◀C▶	▶V◀	14. Synchronizer sleeve
◀D▶	▶V◀	15. Synchronizer spring
◀D▶	▶V◀	16. Synchronizer hub
◀D▶	▶T◀	17. Synchronizer ring
◀D▶	▶T◀	18. 5th speed gear
◀D▶	▶T◀	19. Bearing sleeve
◀D▶	▶T◀	20. Retaining ring
◀E▶	▶U◀	21. 5th gear wheel
◀F▶	▶S◀	22. Locating pin
◀G▶	▶R◀	23. Cover plate
◀G▶	▶R◀	24. Poppet spring
◀G▶	▶R◀	25. Poppet ball

DISASSEMBLY AND REASSEMBLY <F5MR3>



Disassembly steps

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◀A▶	▶Y◀	7. Rear cover
◀A▶	▶Y◀	8. O-ring
◀B▶	▶W◀	9. Bolt
◀B▶	▶W◀	10. Shim
◀B▶	▶W◀	11. Lock nut
◀C▶	▶X◀	12. Spring pin
◀C▶	▶V◀	13. 5th speed shift fork
◀C▶	▶V◀	14. Synchronizer sleeve
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◀D▶	▶T◀	17. Synchronizer ring
◀D▶	▶T◀	18. 5th speed gear
◀D▶	▶T◀	19. Bearing sleeve
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