

## FOREWORD

*This REPAIR MANUAL covers Disassembly, Inspection and Assembly procedures for the following Automatic Transmission:*

Automotic Transmission	Engine Type	REF No.
81-40LE DAEWOO: 96 484 421 AW: 30510-81C008	FAN I 1.5L SOHC	DW-01M-MRM002

*All information contained in this manual is the most up-to-date at the time of publication. However, specifications and procedures are subject to change without notice.*

QUALITY ASSURANCE DEPT.  
**AISIN AW CO., LTD.**

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## ABBREVIATIONS

ASSY .....	Assembly
A/T .....	Automatic Transmission
ATF .....	Automatic Transmission Fluid
B1 .....	O/D & 2nd Coast Brake
B2 .....	2nd Brake
B3 .....	1st & Reverse Brake
C1 .....	Forward Clutch
C2 .....	Direct Clutch
C3 .....	Reverse Clutch
F1.....	1 Way Clutch No.1
F2.....	1 Way Clutch No.2
O/D .....	Over Drive
V/B.....	Valve Body
FIPG .....	Formed In Place Gasket
SST.....	Service Special Tool
TT .....	Tightening Torque
T/M.....	Transmission
T/C.....	Torque Converter
FR .....	Front
RR.....	Rear
MID .....	Middle
DIA.....	Diameter
B/G.....	Bearing

# ABBREVIATIONS

<i>SLT</i> .....	<i>Throttle Pressure Control Solenoid</i>
<i>S1,S2</i> .....	<i>Shift Solenoid No.1,No.2</i>
<i>ST</i> .....	<i>Timing Solenoid</i>
<i>SL</i> .....	<i>Lock-Up Solenoid</i>
<i>Th</i> .....	<i>Thickness</i>
<i>L</i> .....	<i>Length</i>
<i>V</i> .....	<i>Valve</i>
<i>Acum.</i> .....	<i>Accumulator</i>
<i>Cont.</i> .....	<i>Control</i>
<i>Reg.</i> .....	<i>Regulator</i>
<i>Press.</i> .....	<i>Pressure</i>
<i>Mod.</i> .....	<i>Modulator</i>
<i>Pla.</i> .....	<i>Planetary</i>
<i>STD.</i> .....	<i>Standard</i>
<i>LUB.</i> .....	<i>Lube</i>
<i>HSG</i> .....	<i>Housing</i>
<i>Diff</i> .....	<i>Differential</i>

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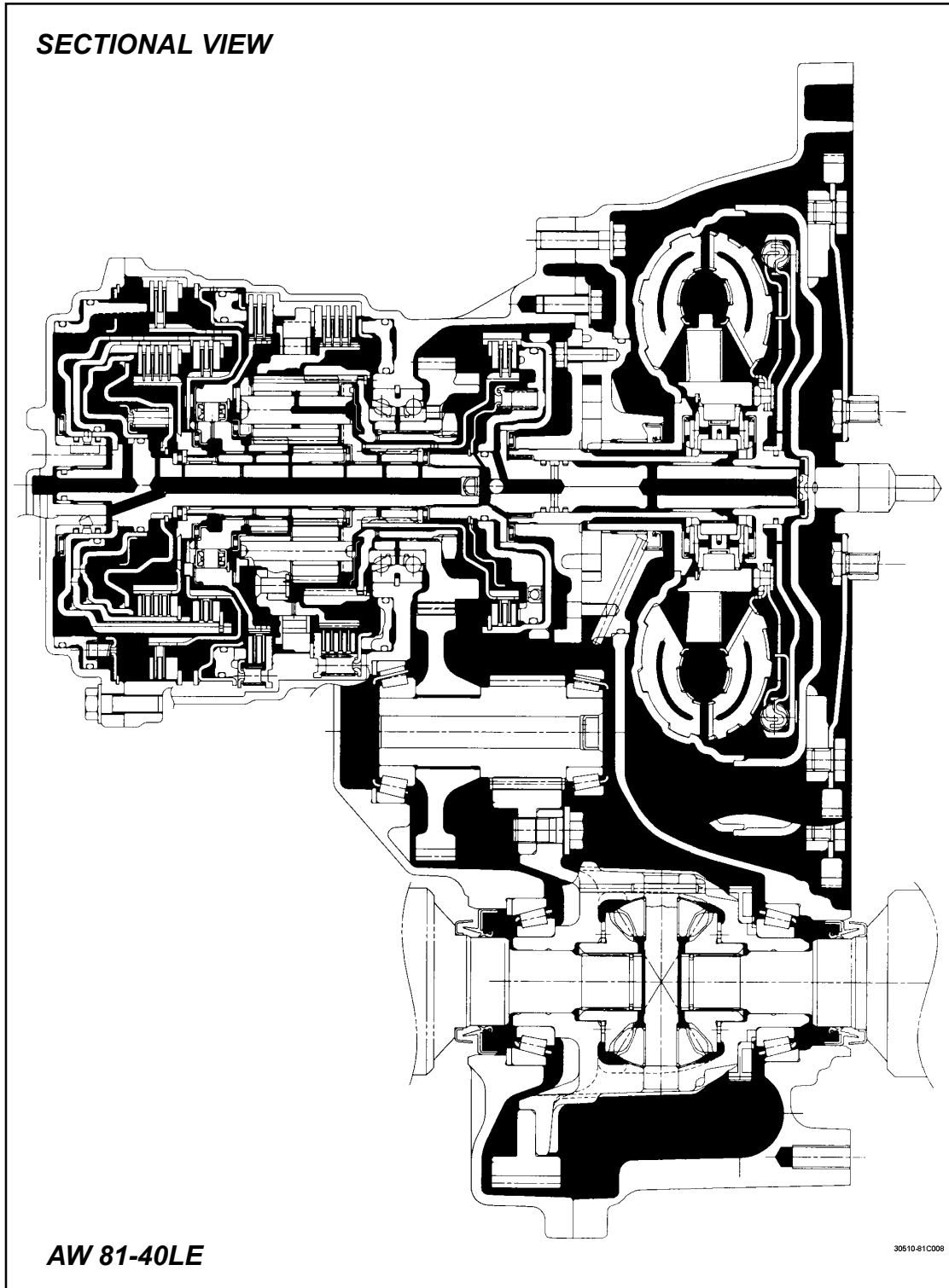
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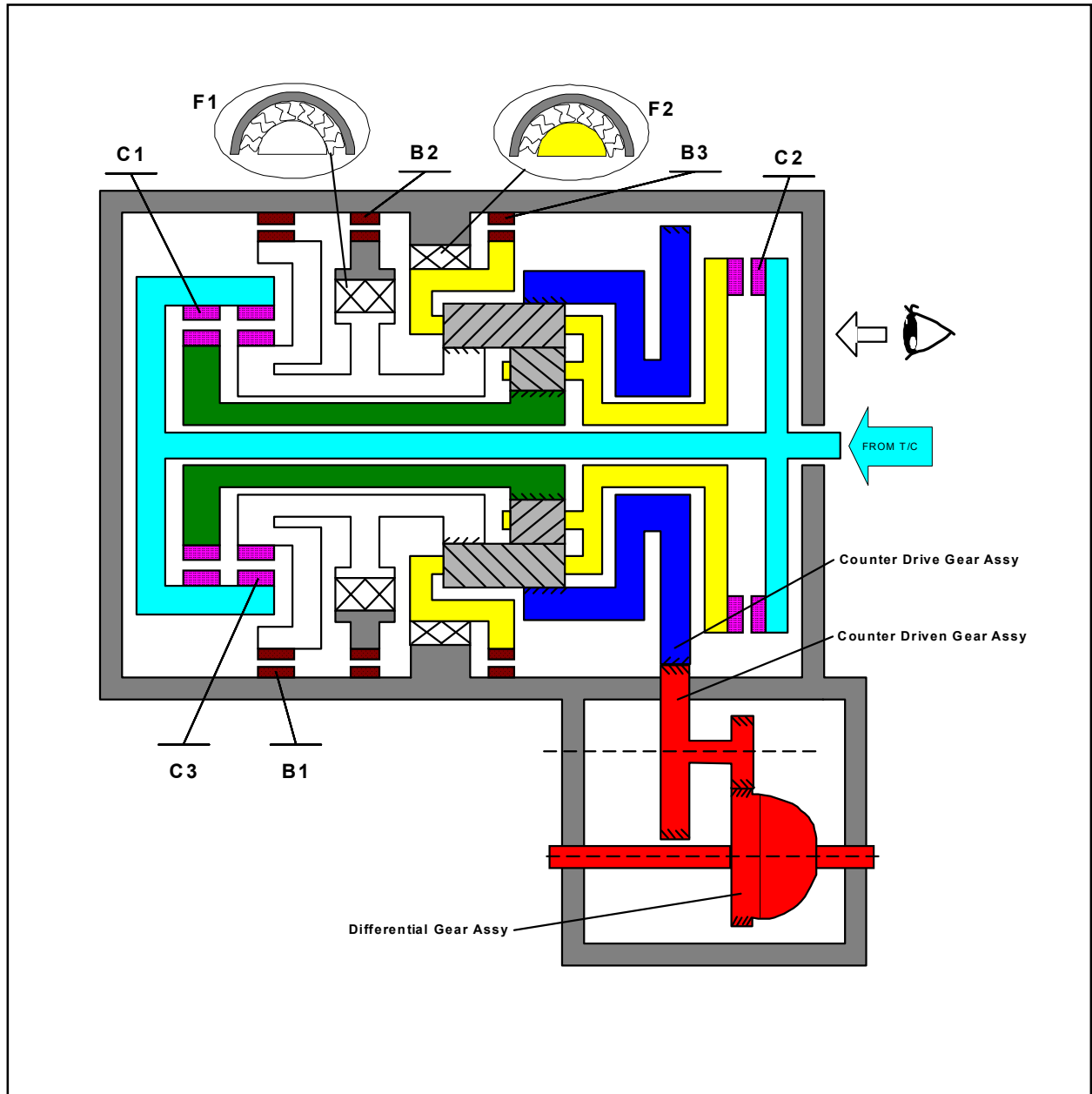
## DESCRIPTION

*The new automatic transmission AW 81-40LE is an electronically controlled 4-speed automatic transmission with Lock-up mechanism.*

*The transmission is mainly composed of the torque converter with lock up clutch, newly developed 4-speed planetary gear unit, the hydraulic control system and the electric control system.*



# OPERATION



# OPERATION

POSITION	Solenoid			Clutch			Brake			1 Way Clutch		
	S1	S2	ST	C1	C2	C3	B1	B2	B3	F1	F2	
P	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
R	V<9	ON	ON	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF
	V>=11	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
N	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
D	1st	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON
	2nd	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	ON	OFF
	3rd	OFF	OFF	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	OFF
	3<=>4	OFF	ON	ON	ON<=>OFF	ON	OFF	OFF<=>ON	ON	OFF	OFF	OFF
	4th	OFF	ON	OFF	OFF	ON	OFF	ON	ON	OFF	OFF	OFF
2	1st	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON
	2nd	ON	OFF	OFF	ON	OFF	OFF	ON	ON	OFF	ON	OFF
	3rd	OFF	OFF	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	OFF
L	1st	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	ON
	2nd	ON	OFF	OFF	ON	OFF	OFF	ON	ON	OFF	ON	OFF



## **REPAIR PROCEDURES**

1. *Most repair operations begin with an overview illustration.*
2. *It identifies the components and shows how the parts fit together.*
3. *The procedures are presented in a step-by-step format:*
  - (1) *The illustration shows what to do and where to do it.*
  - (2) *The task heading tells what to do.*
  - (3) *The detailed text tells how to perform the task and gives other information such as specifications and warnings.*

*You never have to leave the procedure to look up your specs.*

## **GENERAL REPAIR INSTRUCTIONS**

1. *During disassembly, keep parts in order to facilitate reassembly.*
2. (1) *Always replace gaskets, O-rings and oil seals etc. with new ones.*  
(2) *Parts which cannot be reused are indicated by the symbol "□".*
3. *When necessary, use a sealer on gaskets to prevent leaks.*
4. *Carefully observe all specification for bolt tightening torque.*  
*Always use a torque wrench.*
5. *Use of SST may be required, depending on the nature of the repair.*  
*Be sure to use SST where specified and follow the proper work procedure.*