



*1st Printing
November, 2011*

PASSAGE ID / AIR CHECK

INTRODUCTION

This manual covers passage identification for the purpose of air checking the bands and clutches of many domestic and foreign transmissions and transaxles. Not all passages are easily checked with out the assistance of a test plate but the passages are identified for informational purposes.

No part of any ATSG publication may be reproduced, stored in any retrieval system or transmitted in any form or by any means, including but not limited to electronic, mechanical, photocopying, recording or otherwise, without *written* permission of Automatic Transmission Service Group. This includes all text illustrations, tables and charts.

*The information contained in this booklet has
been carefully compiled from industry sources known for their
reliability, but ATSG does not guarantee its accuracy.*

Copyright © ATSG 2011

WAYNE COLONNA
TECHNICAL CONSULTANT

PETER LUBAN
TECHNICAL CONSULTANT

GERALD CAMPBELL
TECHNICAL CONSULTANT

JON GLATSTEIN
TECHNICAL CONSULTANT

GREG CATANZARO
TECHNICAL CONSULTANT

DALE ENGLAND
TECHNICAL CONSULTANT

JIM DIAL
TECHNICAL CONSULTANT

ED KRUSE
TECHNICAL CONSULTANT

GREGORY LIPNICK
TECHNICAL CONSULTANT

DAVID CHALKER
TECHNICAL CONSULTANT

AUTOMATIC TRANSMISSION SERVICE GROUP
18635 S.W. 107 AVENUE
CUTLER BAY, FLORIDA 33157
(305) 670-4161



AIR CHECK BOOK

INDEX

CHRYSLER

45RFE / 545RFE.....	5
42RE / 44RE / 46RE / 47RE / 48RE / A500 / A518 / A618.....	6
62TE.....	7
68RFE.....	8
404-413-470-670.....	9
727-904.....	10
AW4.....	11
JF011E.....	12

FORD

4F20E.....	13
4F27E/FNR5.....	14
4R-5R55E.....	15
4R100/E4OD.....	16
5R55N.....	17
5R55S/W.....	18
5R110W.....	19
6R60 / 6R80.....	20
6R140.....	21
A4LD.....	22
AF40-6/FORD 500.....	23
AOD.....	24
AODE/4R70W/4R75E.....	25
ATX.....	26
AX4N / 4F50N.....	27
AXOD.....	28
AXODE / AX4S.....	29
C3.....	30
C4/C5.....	31
C6.....	32
CD4E.....	33
F4EAT / F4AEL / F4EIII.....	34
GF4AEL / G4AEL / G4AHL / GF4EAT.....	35

AUTOMATIC TRANSMISSION SERVICE GROUP

18635 S.W. 107 AVENUE

CUTLER BAY, FLORIDA 33157

(305) 670-4161

Copyright © ATSG 2011



AIR CHECK BOOK

INDEX

GENERAL MOTORS

3L30 / 180.....	36
3L80 / 400.....	37
3T40 / 125C.....	38
4L30E.....	39
4L60/65/70E.....	40
4L80E.....	41
4T40E.....	42
4T60E.....	43
4T65E.....	44
4T80E.....	45
5L40E.....	46
6L80.....	47
200-4R.....	48
200C.....	49
325.....	50
325-4L.....	51
350C.....	52
440-T4 / 4T60.....	53
700-R4.....	54
AF33-5 / AW55-50.....	55
ALLISON 1000/2000.....	56
MX-17.....	57
SATURN 1st DESIGN TAAT.....	58
SATURN 2nd DESIGN TAAT.....	59

IMPORT

4HP18.....	60
4HP22 / 4HP24.....	61
5HP19.....	62
5HP19-FL.....	63
5HP24.....	64
5HP30.....	65
6HP26.....	66
722.6.....	67
722.8.....	68
722.9.....	69
AW450-43LE.....	70
AW81-40LE.....	71
HONDA HYBRID SZCA.....	72
HONDA M4VA.....	73

AUTOMATIC TRANSMISSION SERVICE GROUP

18635 S.W. 107 AVENUE

CUTLER BAY, FLORIDA 33157

(305) 670-4161

Copyright © ATSG 2011



AIR CHECK BOOK

INDEX

<i>HYUNDAI A5HF1/F5A5A.....</i>	<i>74</i>
<i>JF506E.....</i>	<i>75</i>
<i>JR710E.....</i>	<i>76</i>
<i>KF100 / F3A.....</i>	<i>77</i>
<i>KIA A4CF2.....</i>	<i>78</i>
<i>MAZDA RC4A-EL.....</i>	<i>79</i>
<i>MITSUBISHI AS68RC.....</i>	<i>80</i>
<i>MITSUBISHI F4A20 / F4A30 / KM170 / KM171 / KM175 / KM176 / KM177.....</i>	<i>81</i>
<i>MITSUBISHI JF011E / F1CJA.....</i>	<i>82</i>
<i>MITSUBISHI F4A51.....</i>	<i>83</i>
<i>MITSUBISHI R4A51 / R5A51.....</i>	<i>84</i>
<i>NISSAN L3N71B.....</i>	<i>85</i>
<i>NISSAN L4N71B.....</i>	<i>86</i>
<i>NISSAN N4AEL.....</i>	<i>87</i>
<i>NISSAN RE4FO2A.....</i>	<i>88</i>
<i>NISSAN RE5RO5A.....</i>	<i>89</i>
<i>NISSAN RL3FO1A.....</i>	<i>90</i>
<i>NISSAN RL4FO2A.....</i>	<i>91</i>
<i>NISSAN RL4FO3A/V.....</i>	<i>92</i>
<i>NISSAN RL4RO1A / RE4RO1A / JR403E / RE4RO3A / R4A-EL.....</i>	<i>93</i>
<i>SUBARU 3 SPEED.....</i>	<i>94</i>
<i>SUBARU 4 SPEED.....</i>	<i>95</i>
<i>SUBARU PHASE II.....</i>	<i>96</i>
<i>SUBARU PHASE II VERSION II.....</i>	<i>97</i>
<i>TOYOTA A40.....</i>	<i>98</i>
<i>TOYOTA A140.....</i>	<i>99</i>
<i>TOYOTA A340.....</i>	<i>100</i>
<i>TOYOTA A761E.....</i>	<i>101</i>
<i>TOYOTA U140/U240.....</i>	<i>102</i>
<i>TOYOTA U150/250.....</i>	<i>103</i>
<i>TOYOTA U660E.....</i>	<i>104</i>
<i>VOLVO 50-42LE.....</i>	<i>105</i>
<i>VW 010-003.....</i>	<i>106</i>
<i>VW 01M.....</i>	<i>107</i>
<i>VW 09D.....</i>	<i>108</i>
<i>VW 09G.....</i>	<i>110</i>
<i>VW 096.....</i>	<i>111</i>
<i>VW DSG-02E.....</i>	<i>112</i>

AUTOMATIC TRANSMISSION SERVICE GROUP

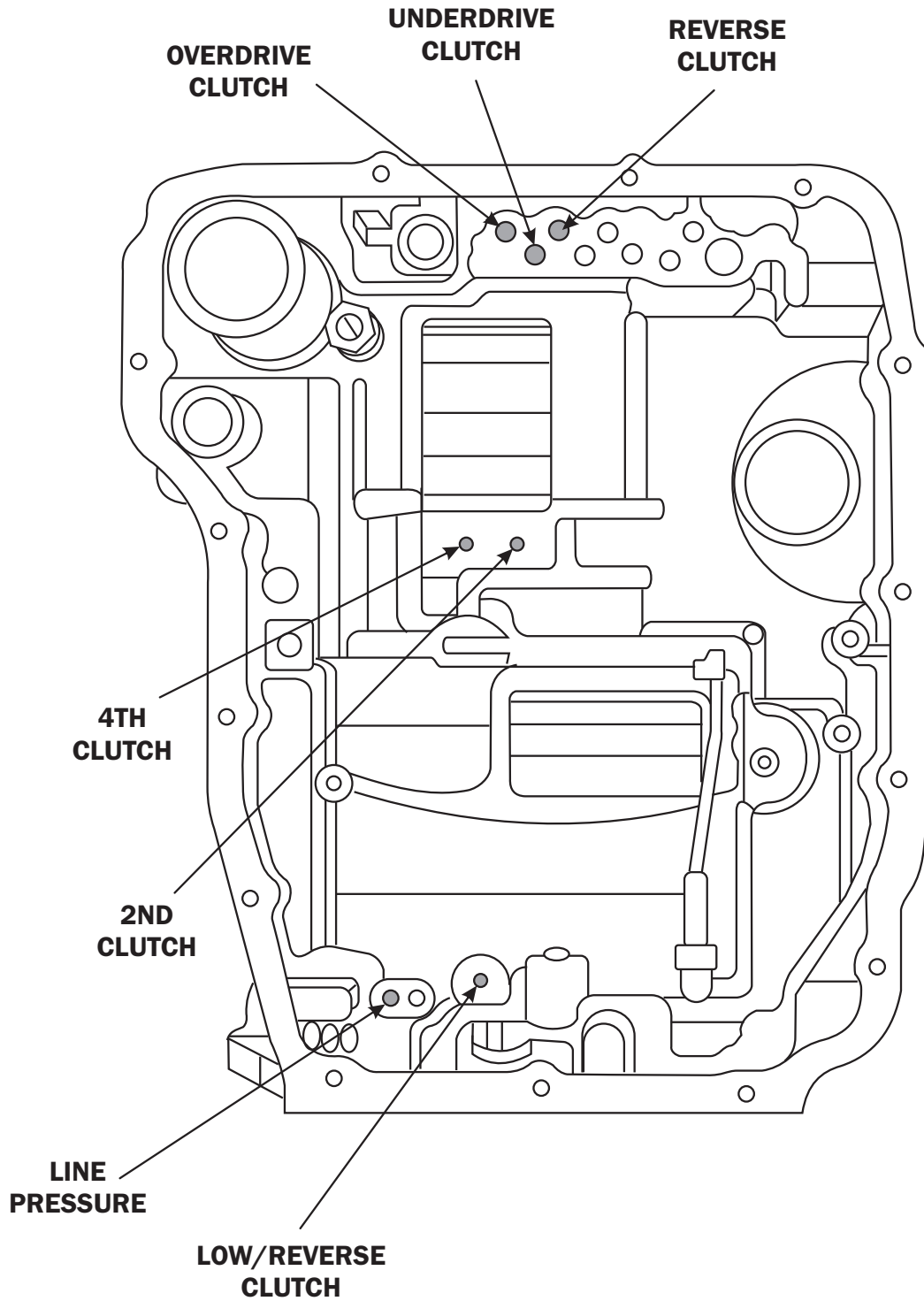
18635 S.W. 107 AVENUE

CUTLER BAY, FLORIDA 33157

(305) 670-4161

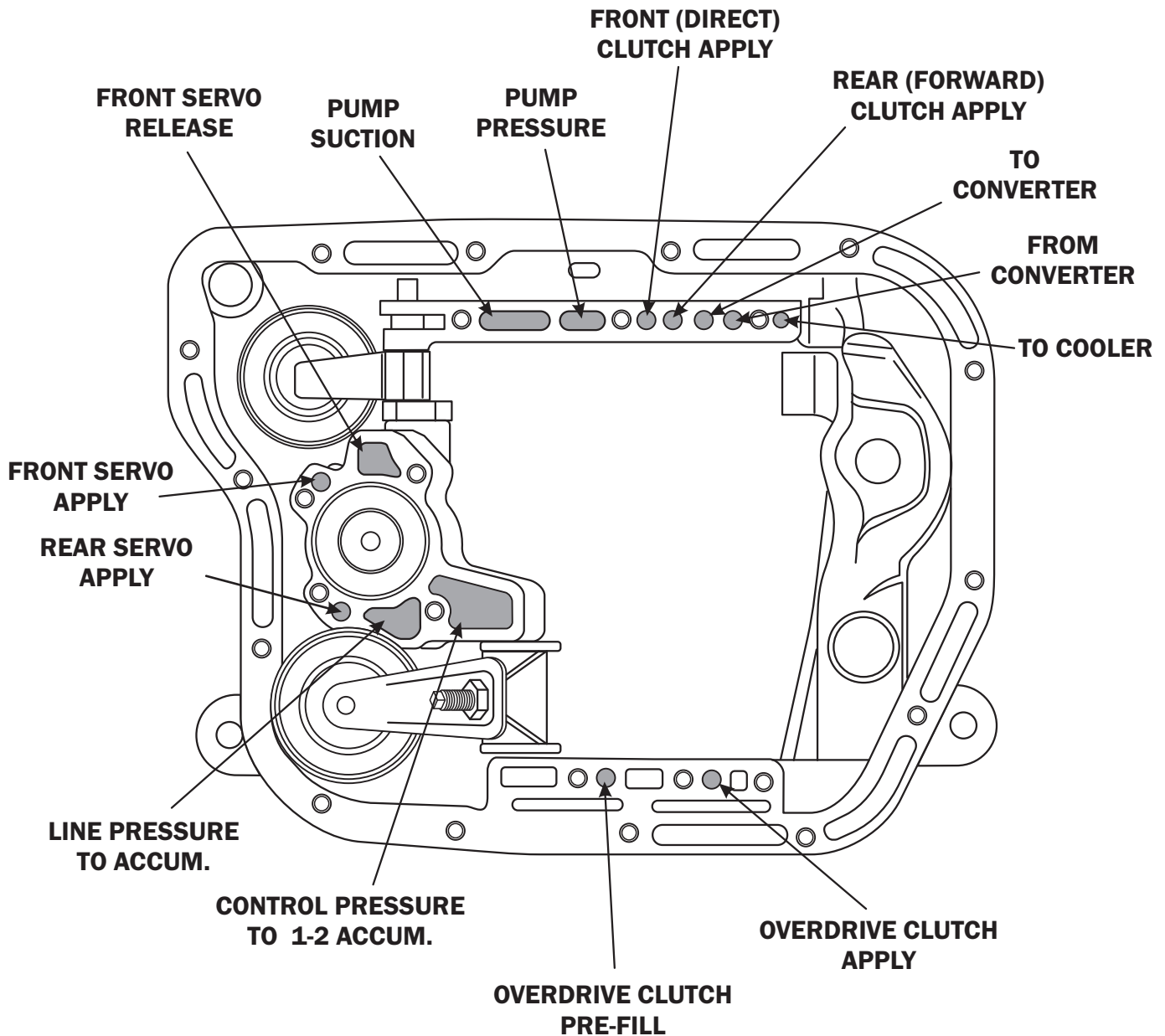
Copyright © ATSG 2011

CHRYSLER 45 / 545RFE



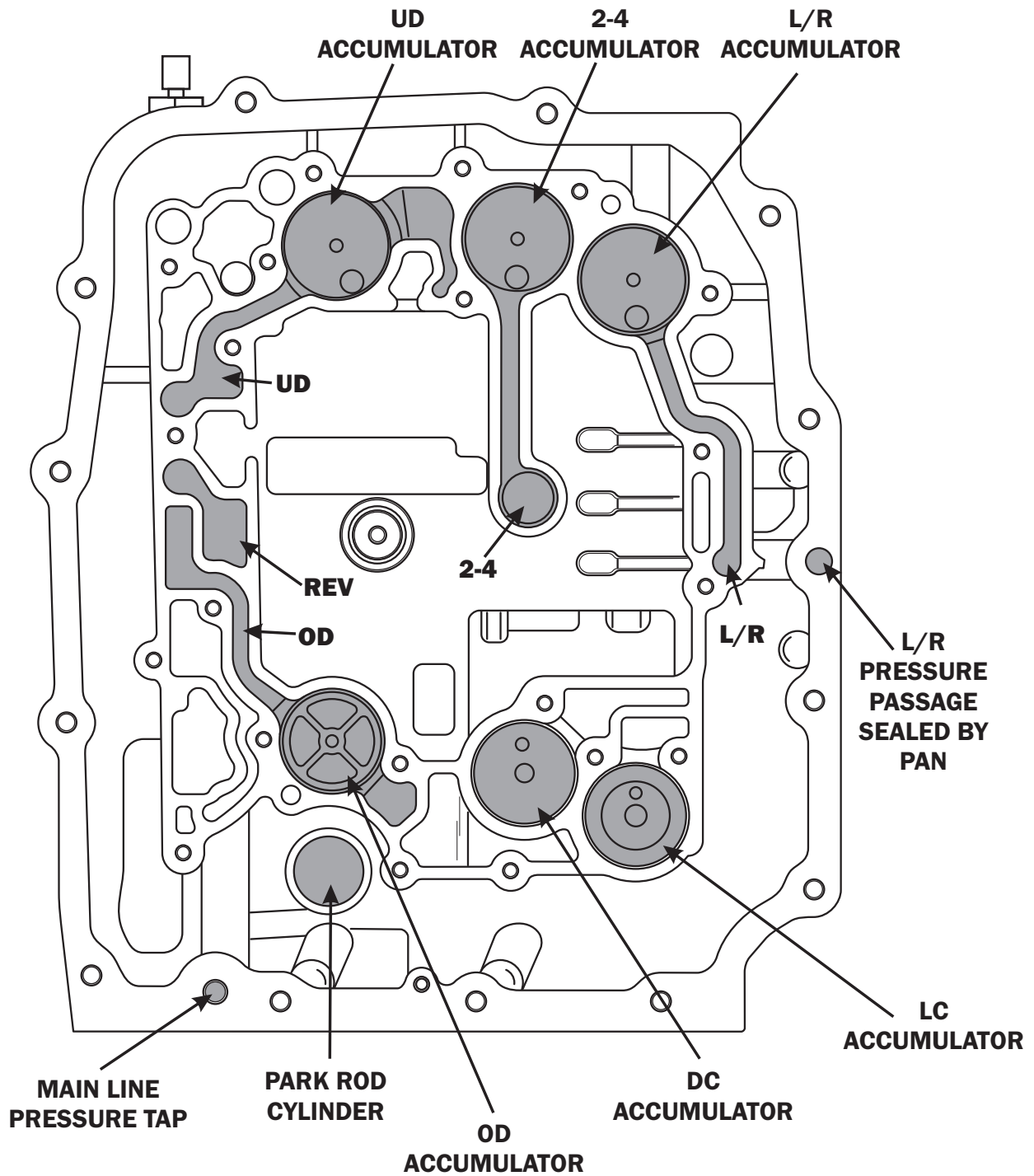
Copyright © 1999 ATSG

CHRYSLER 42 / 44 / 46 / 47 / 48RE / A500 / A518 / A618



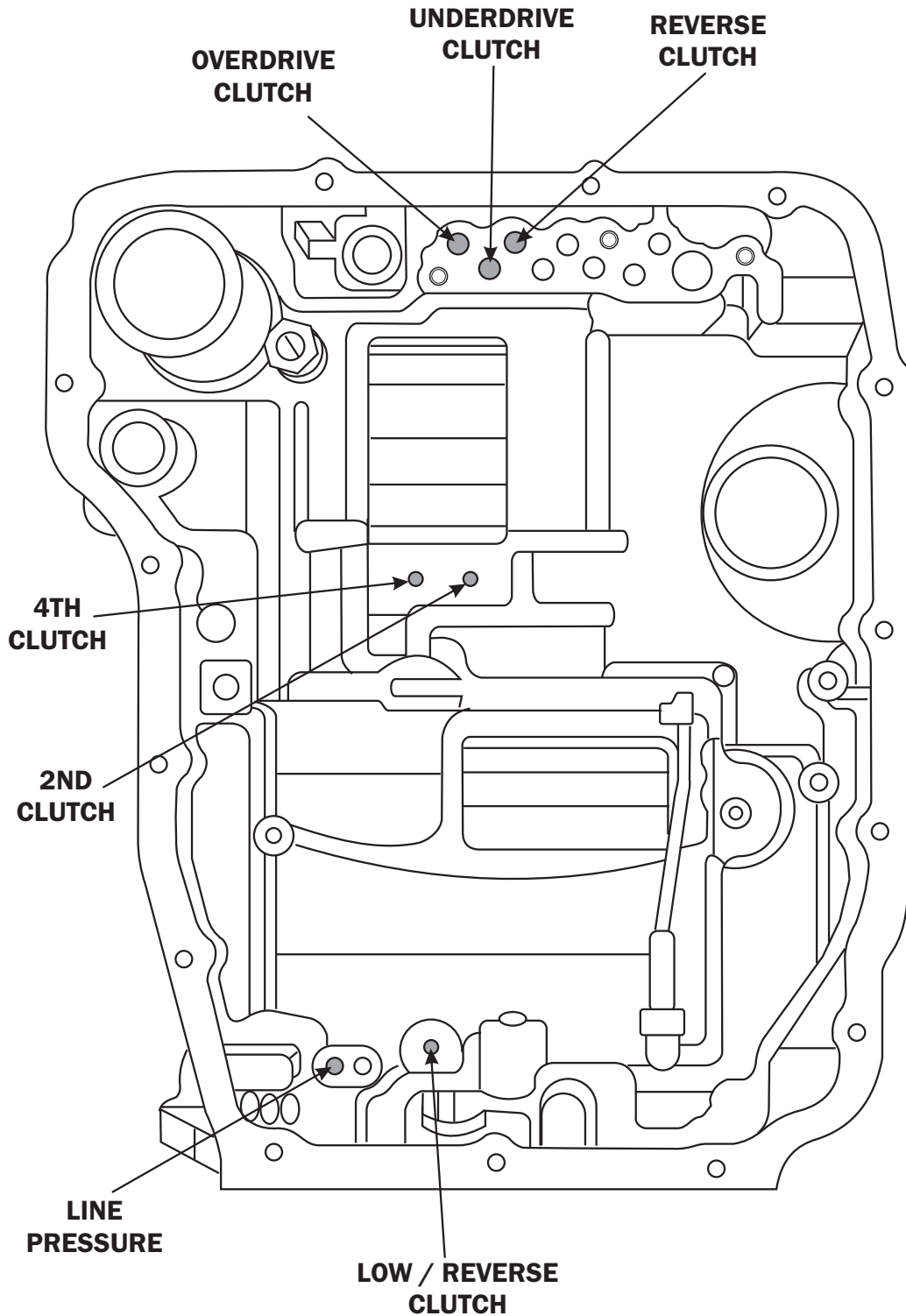
Copyright © 2011 ATSG

CHRYSLER 62TE



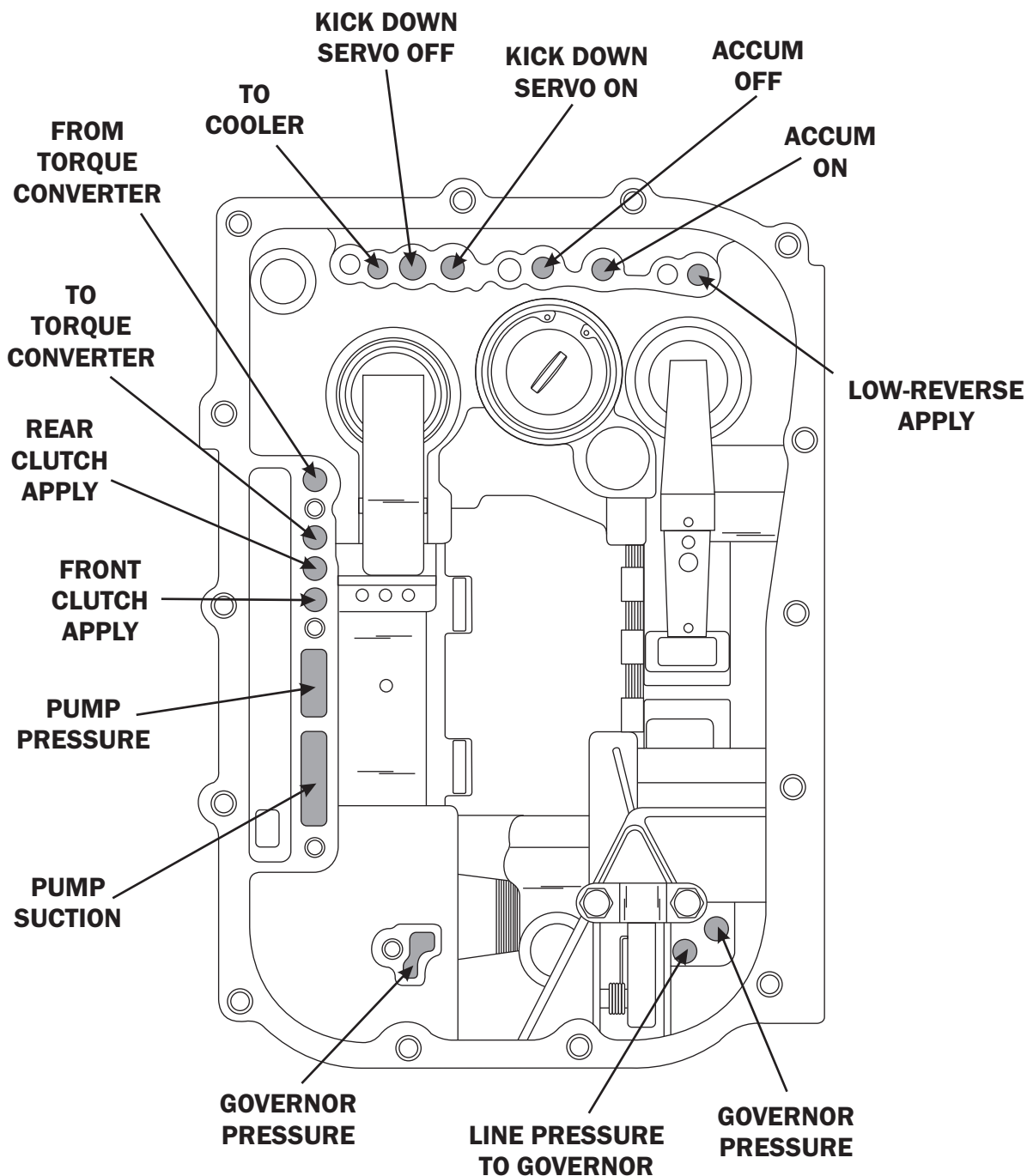
Copyright © 2011 ATSG

CHRYSLER 68RFE



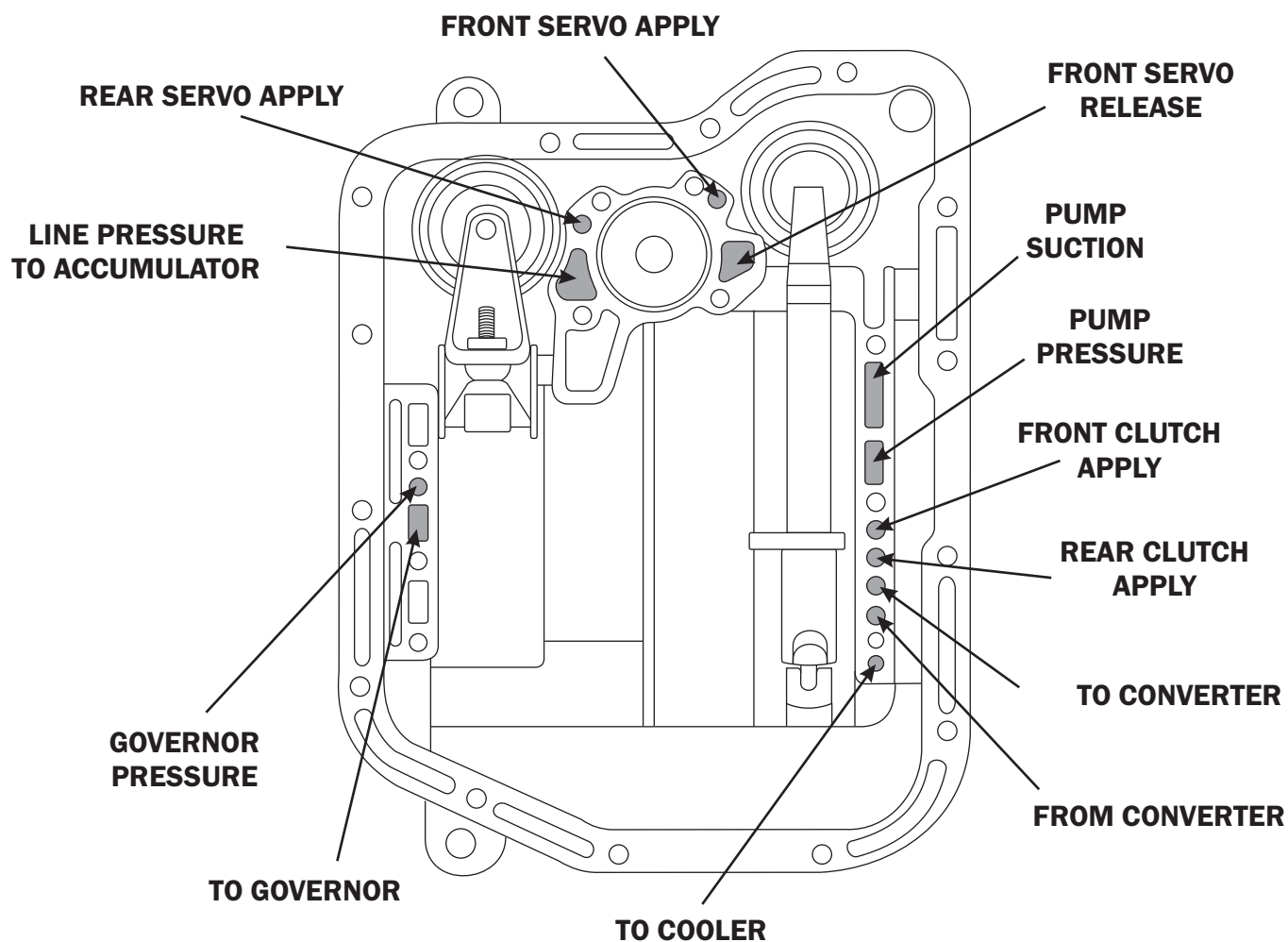
Copyright © 2011 ATSG

CHRYSLER 404 / 413/ 470 / 670



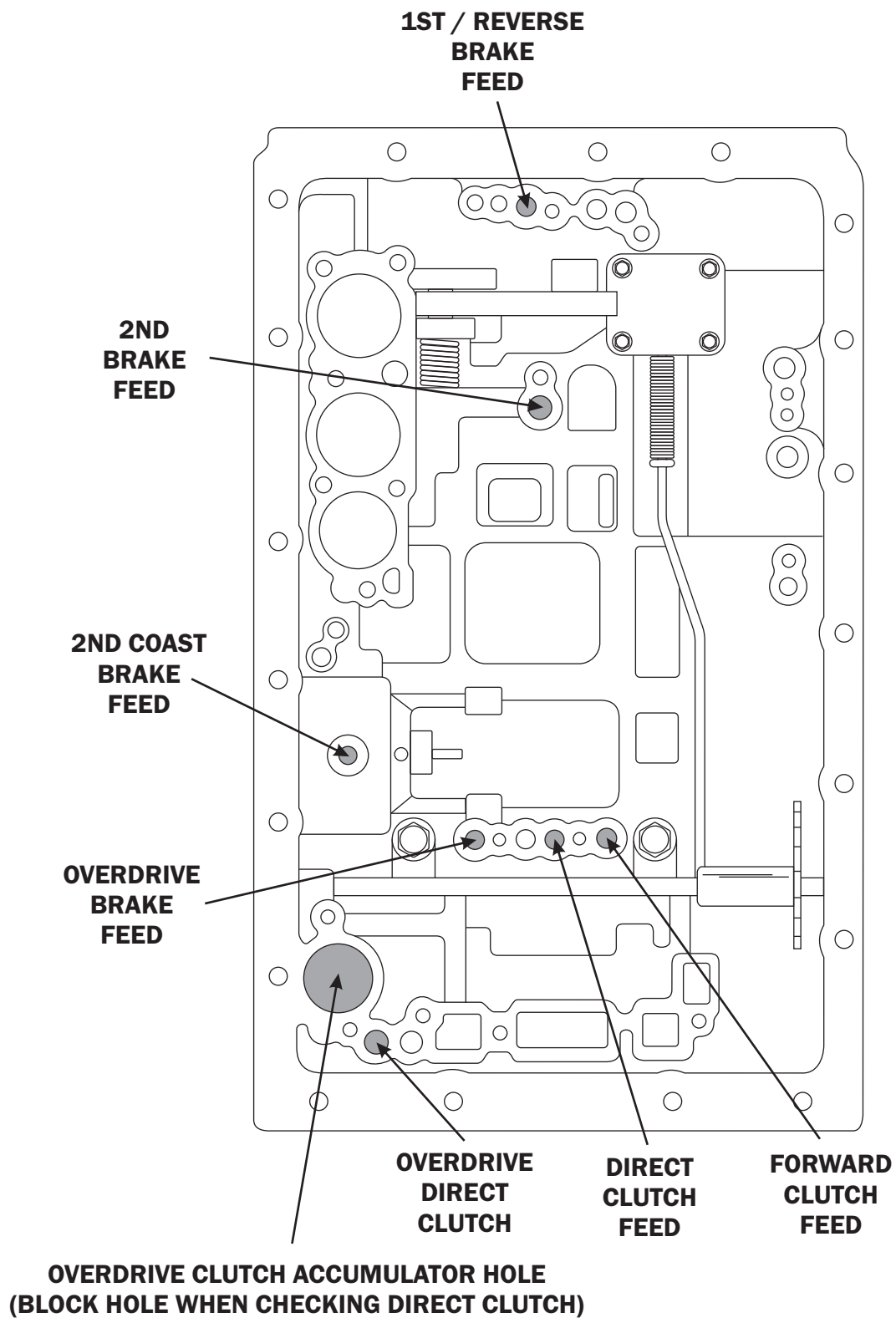
Copyright © 2011 ATSG

CHRYSLER 727 / 904



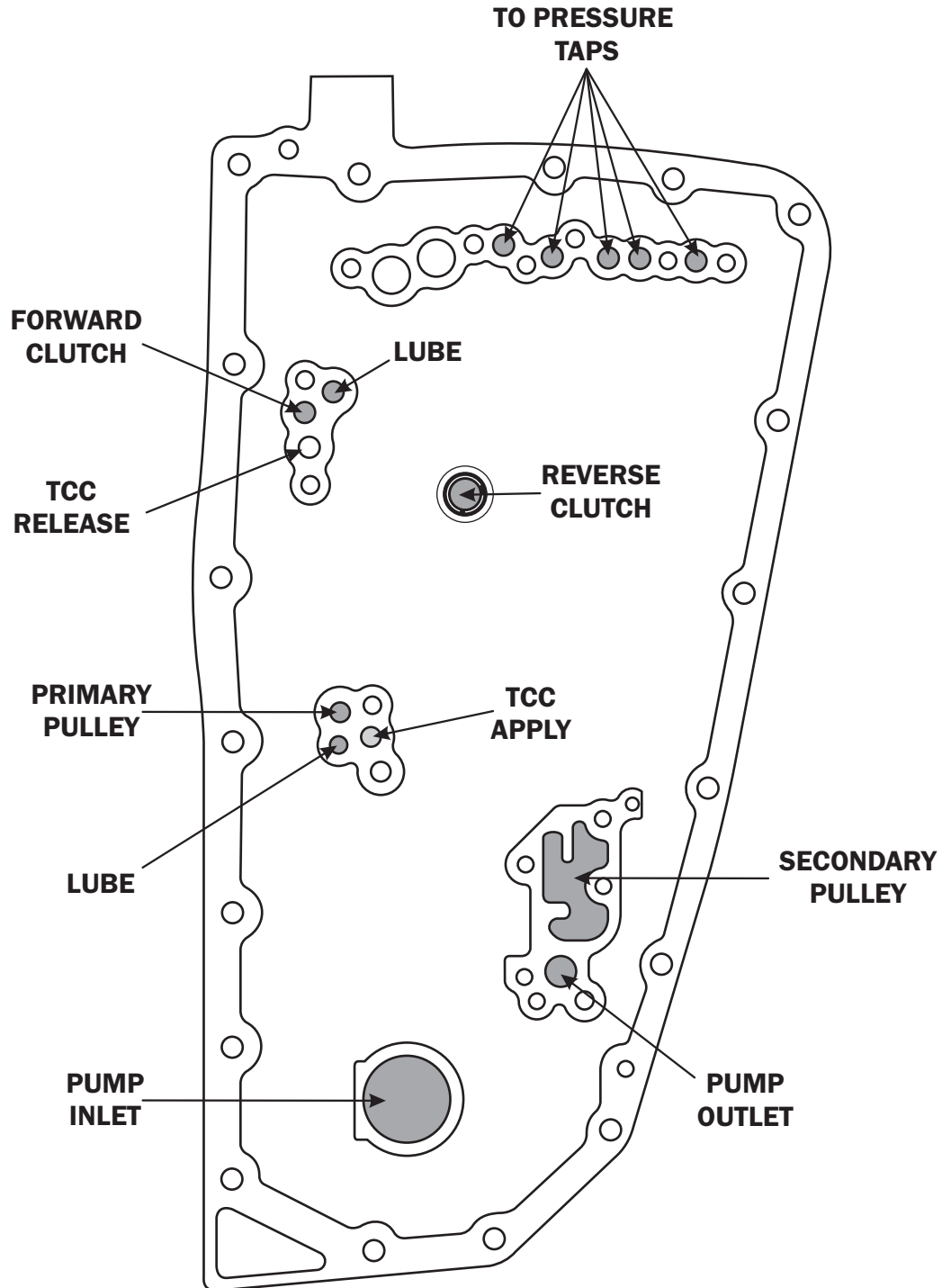
Copyright © 2011 ATSG

CHRYSLER JEEP AW4



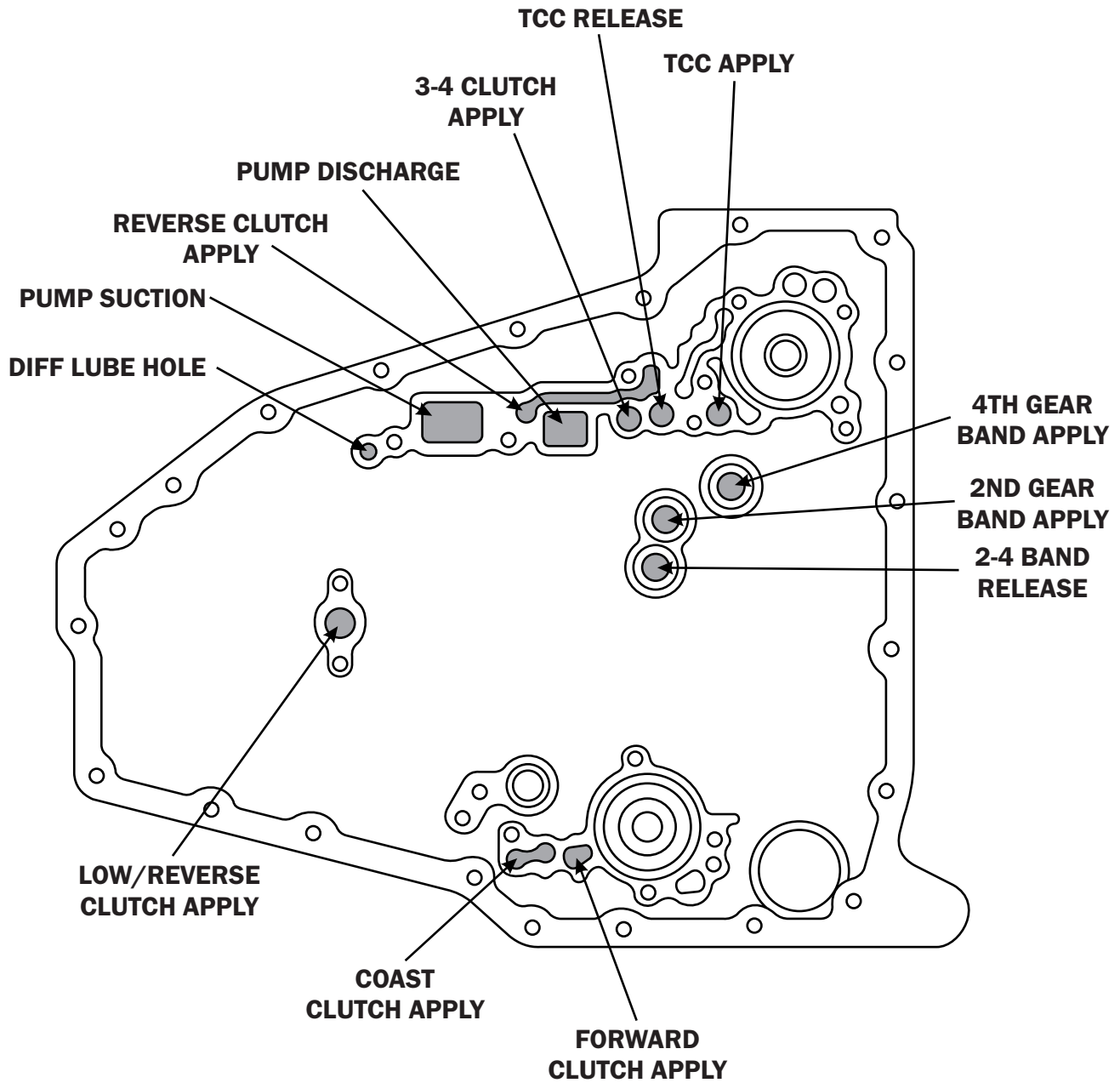
Copyright © 2011 ATSG

DODGE JF011E



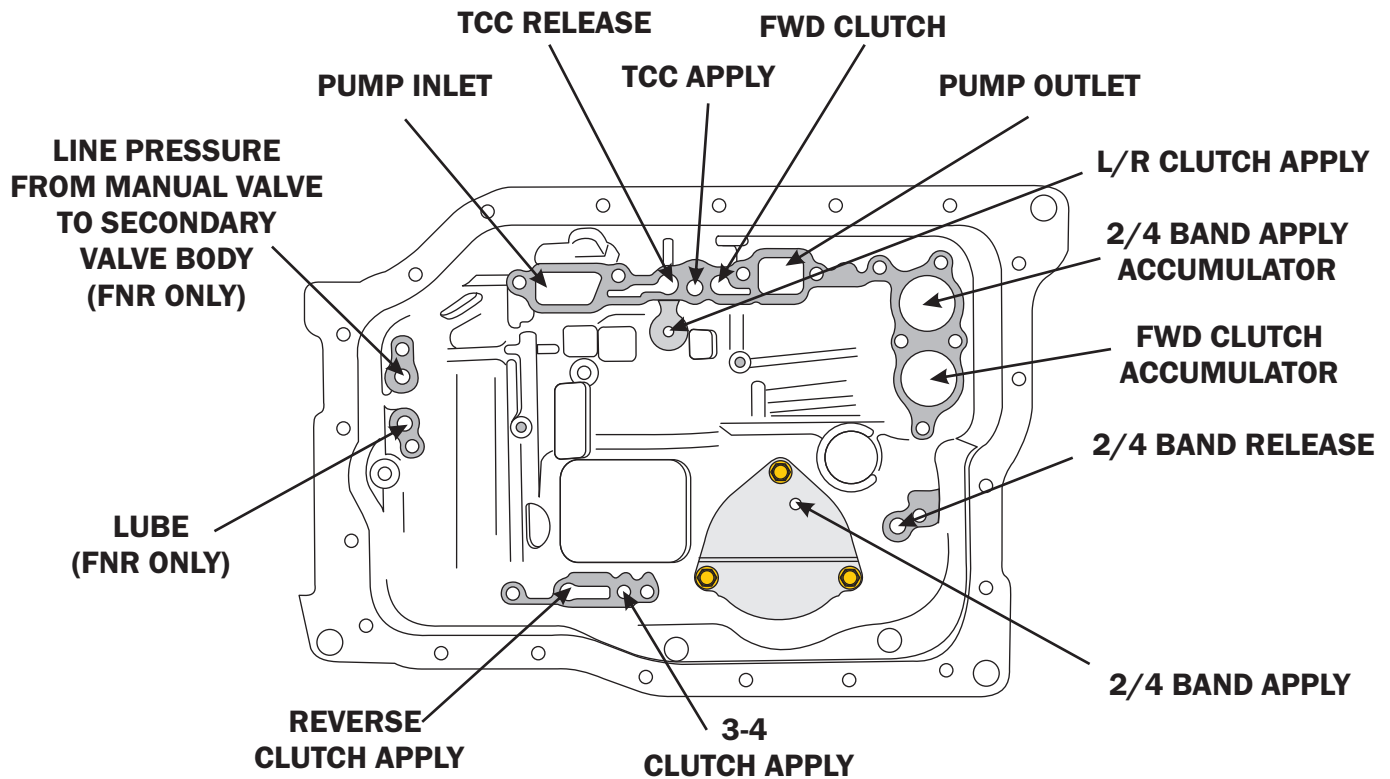
Copyright © 2011 ATSG

FORD 4F20E

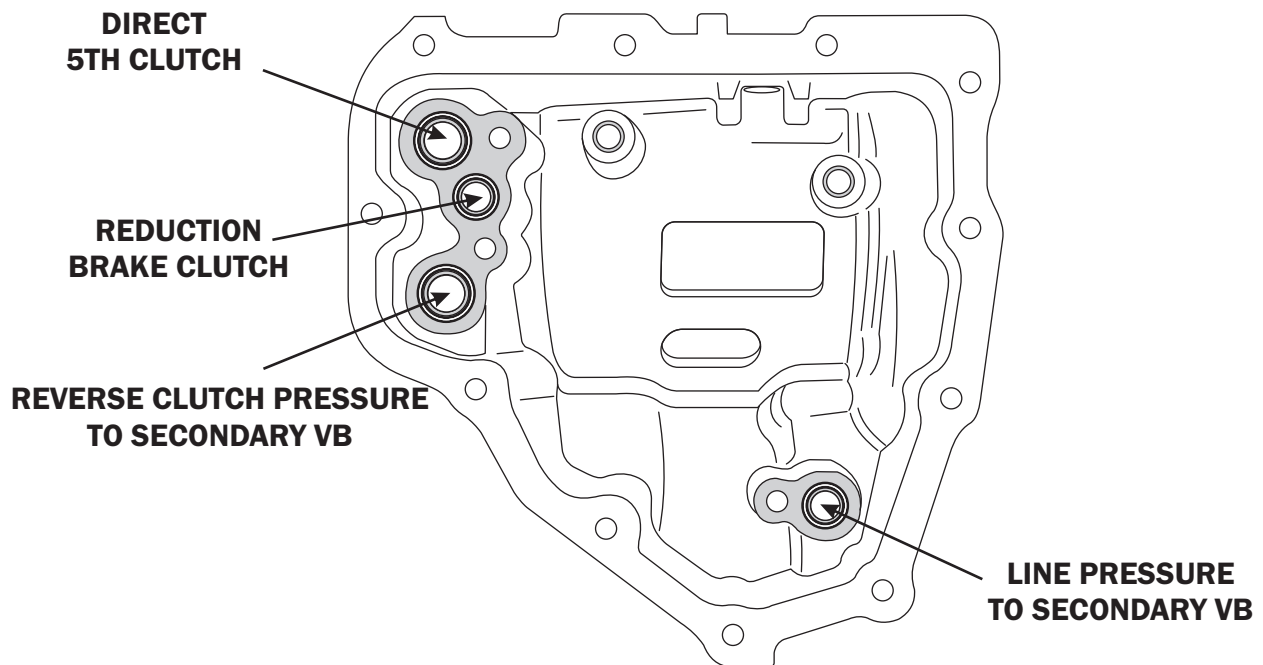


Copyright © 2011 ATSG

FORD 4F27E / FNR5

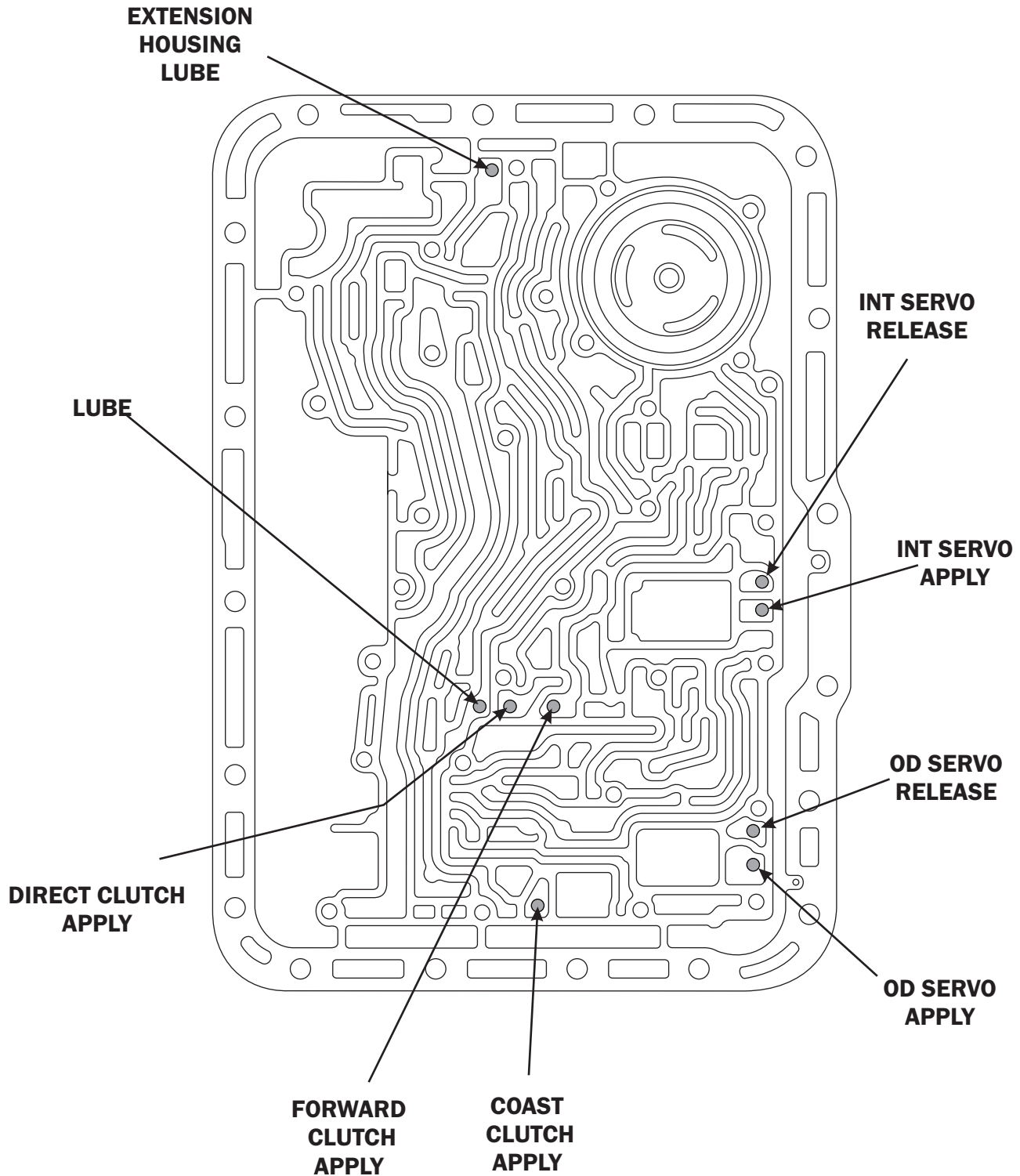


FNR5 ONLY



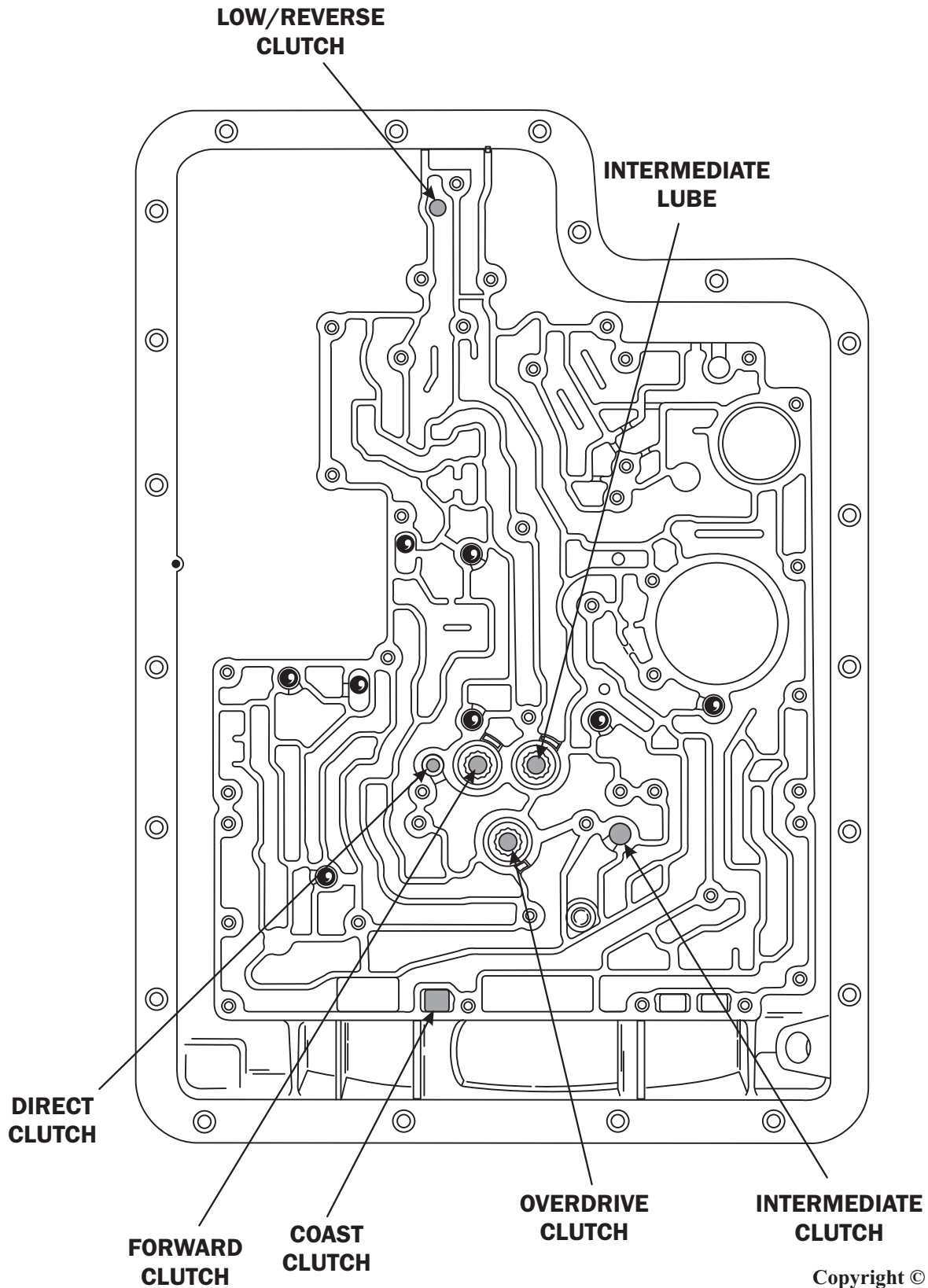
Copyright © 2011 ATSG

FORD 4R44E / 4R55E / 5R44E / 5R55E



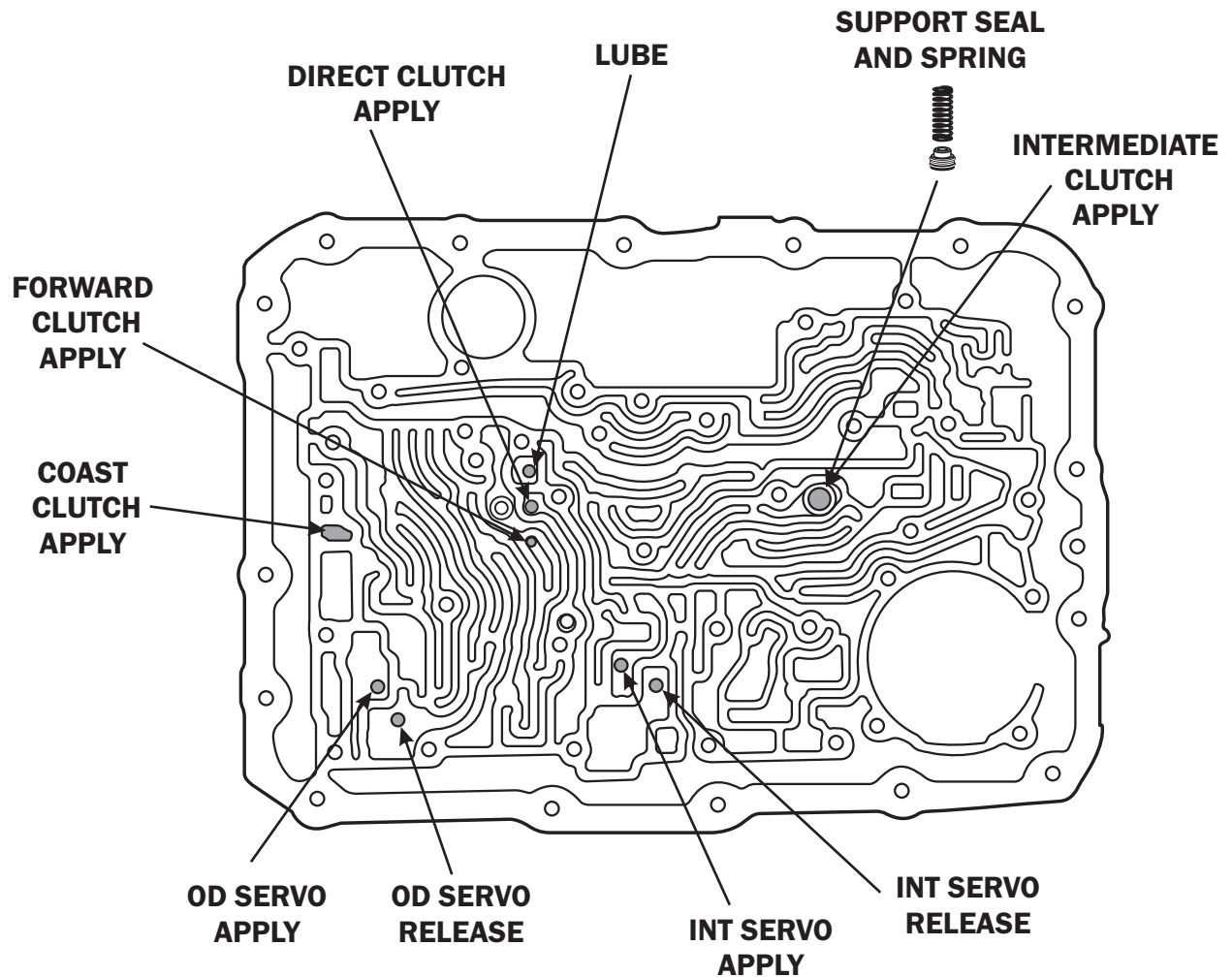
Copyright © 2011 ATSG

FORD 4R100 / E4OD

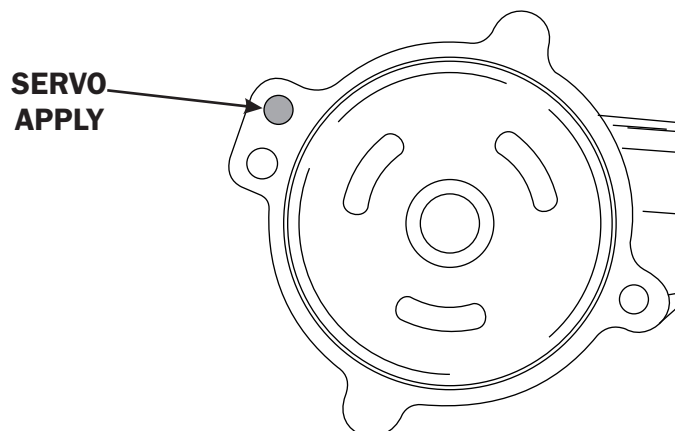


Copyright © 2011 ATSG

FORD 5R55N

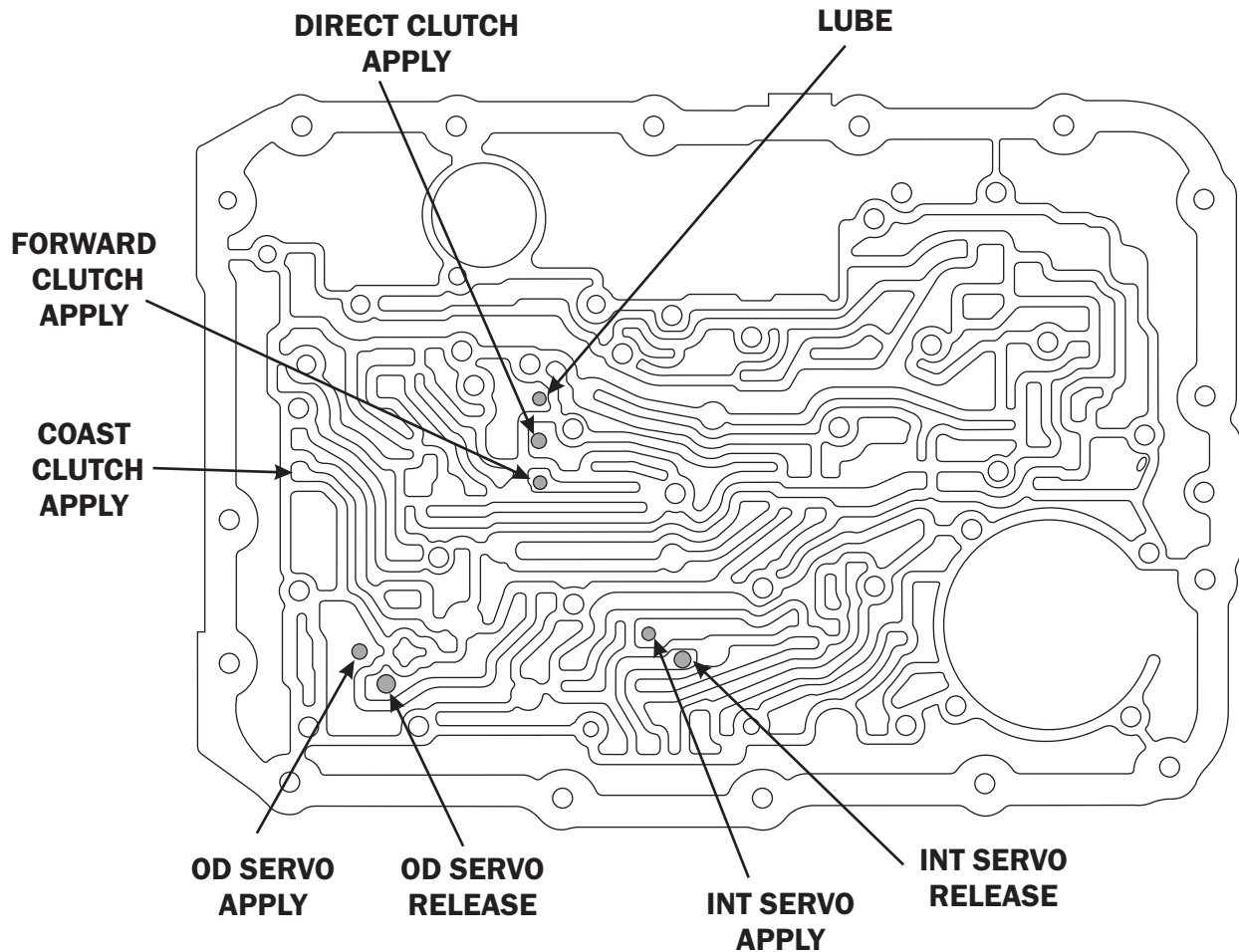


REVERSE SERVO HOUSING

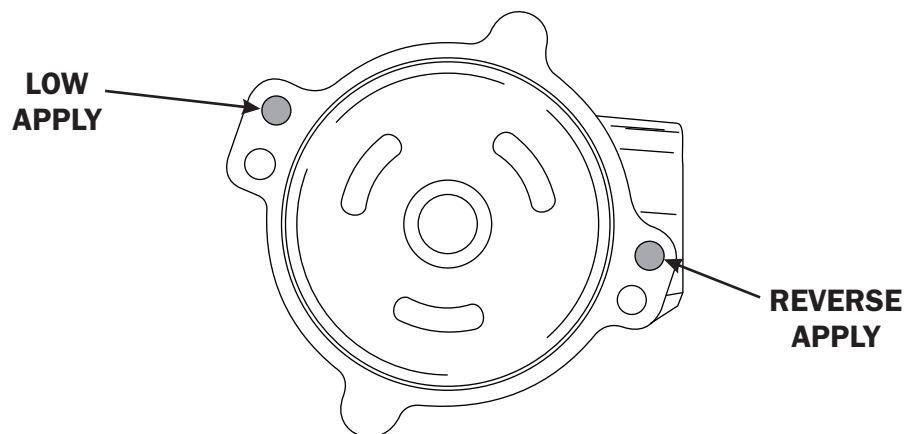


Copyright © 2011 ATSG

FORD 5R55S/W

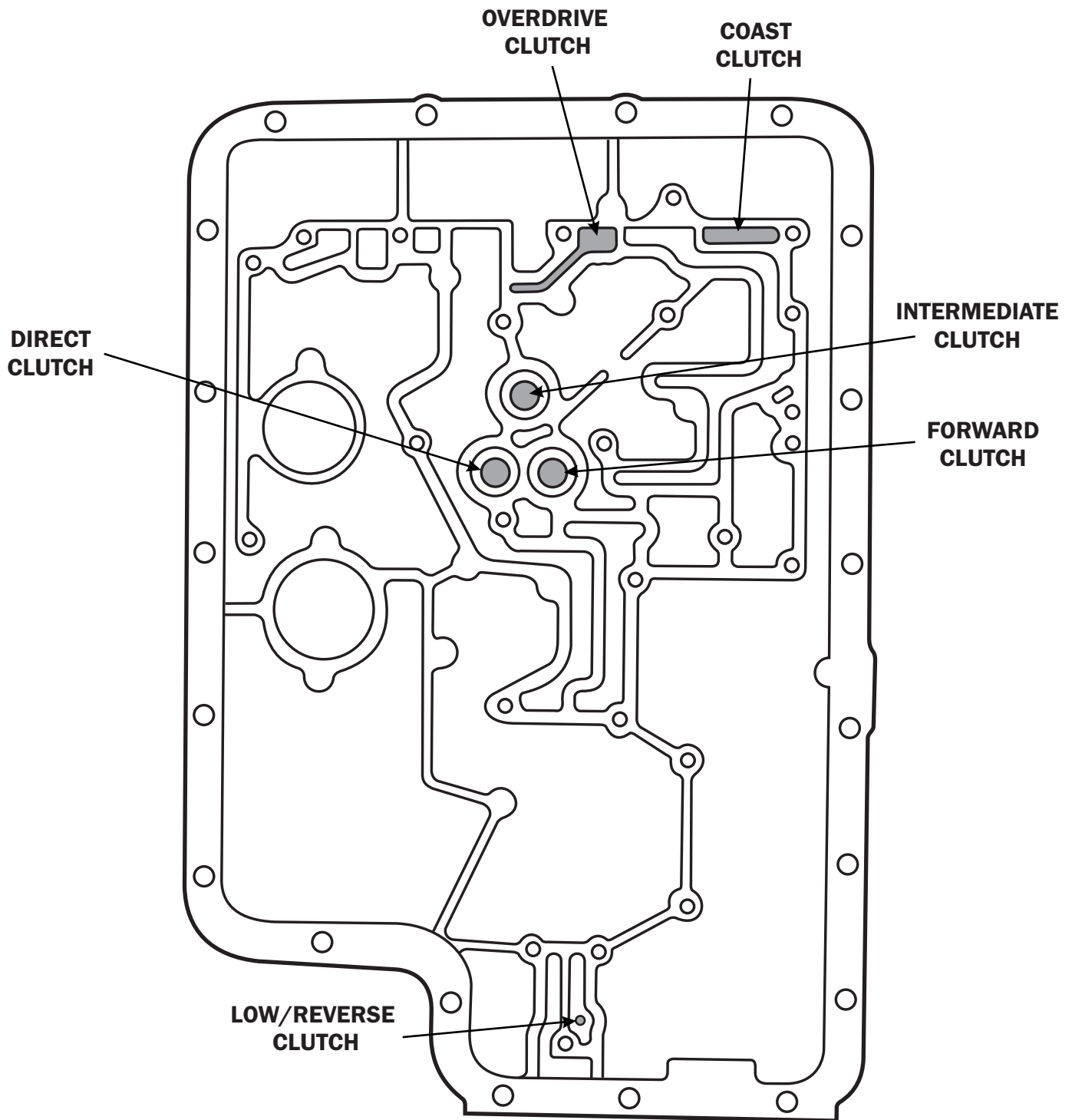


REVERSE SERVO HOUSING



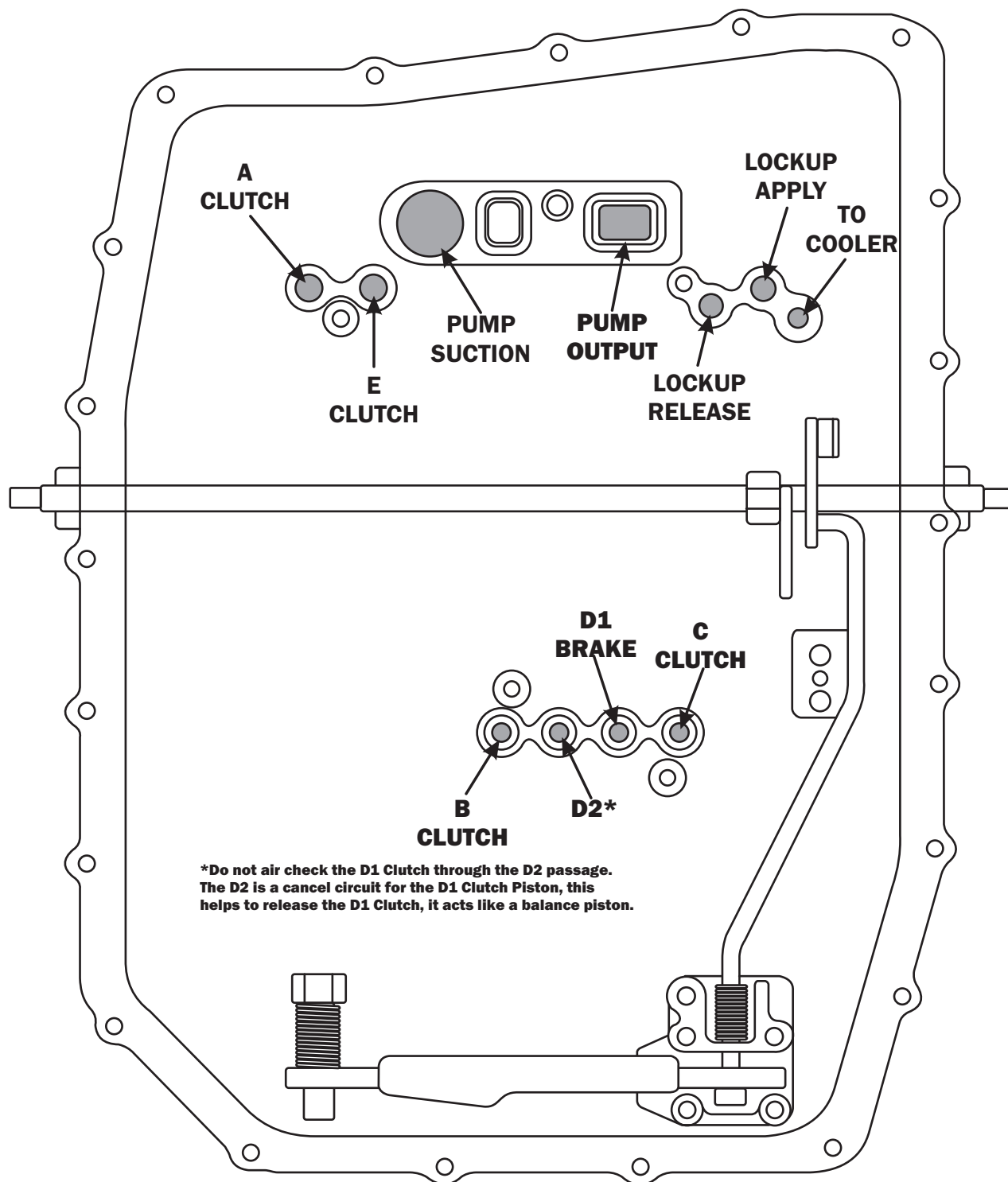
Copyright © 2011 ATSG

FORD 5R110W

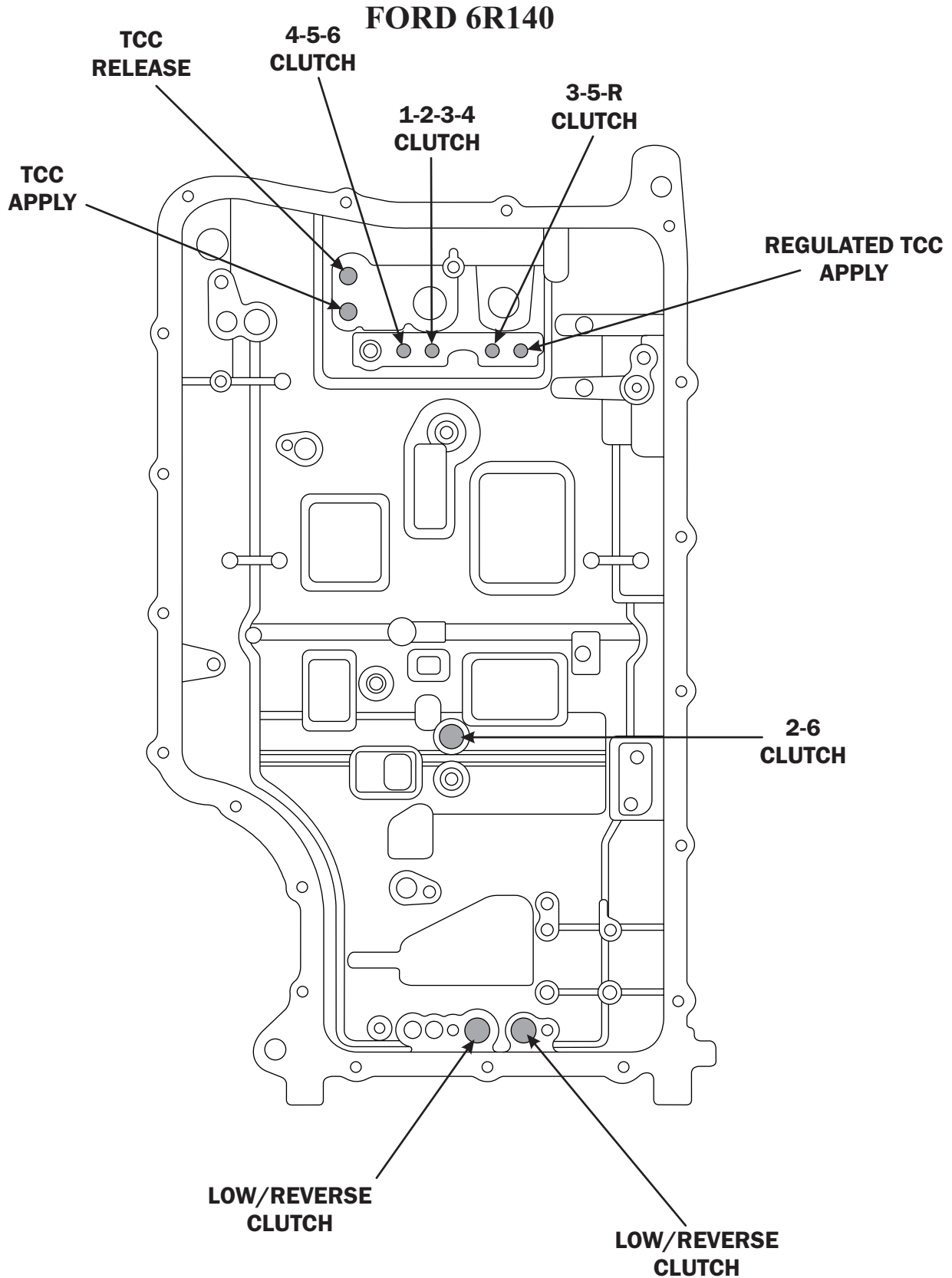


Copyright © 2011 ATSG

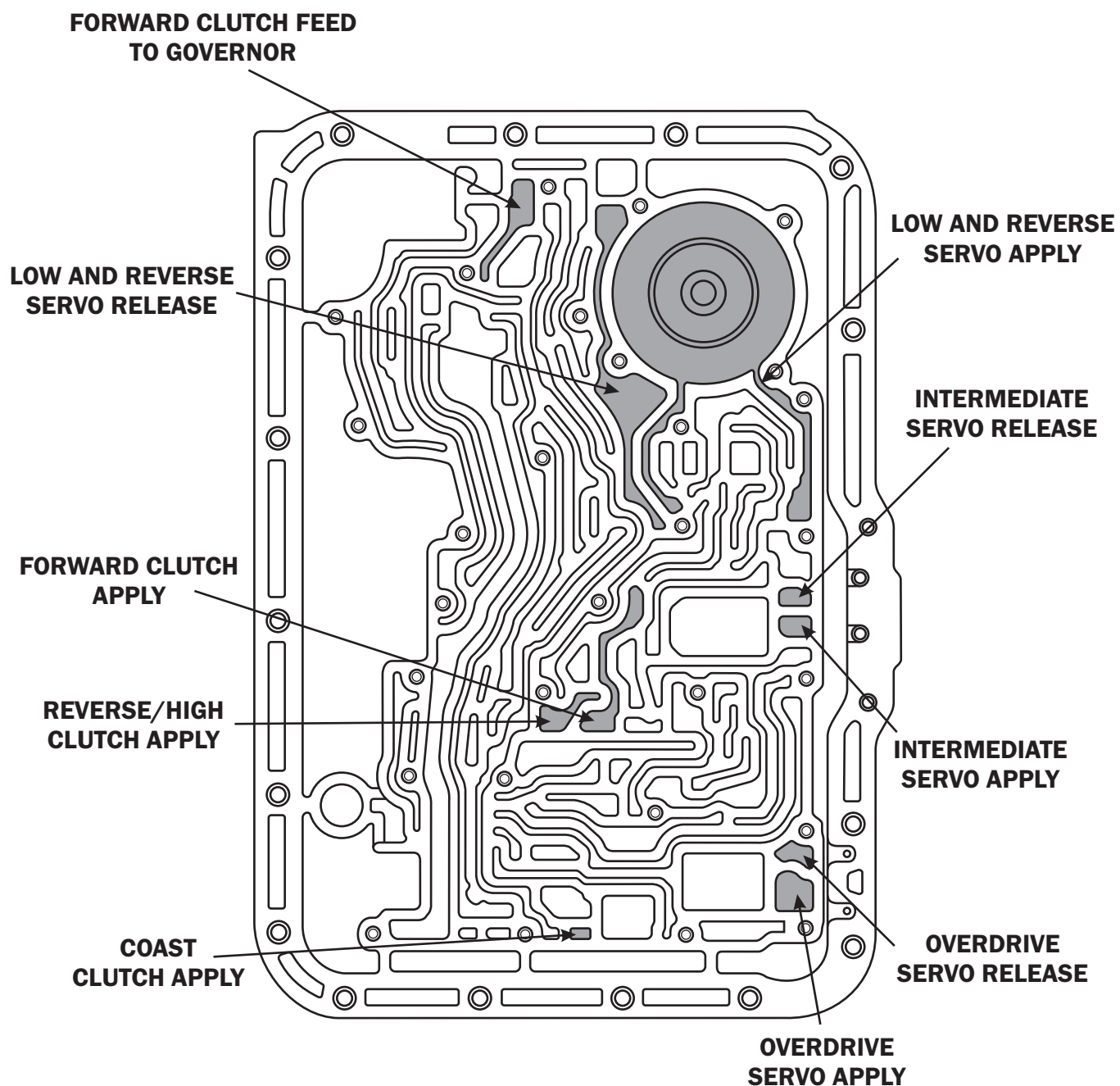
FORD 6R60 / 6R80



Copyright © 2011 ATSG

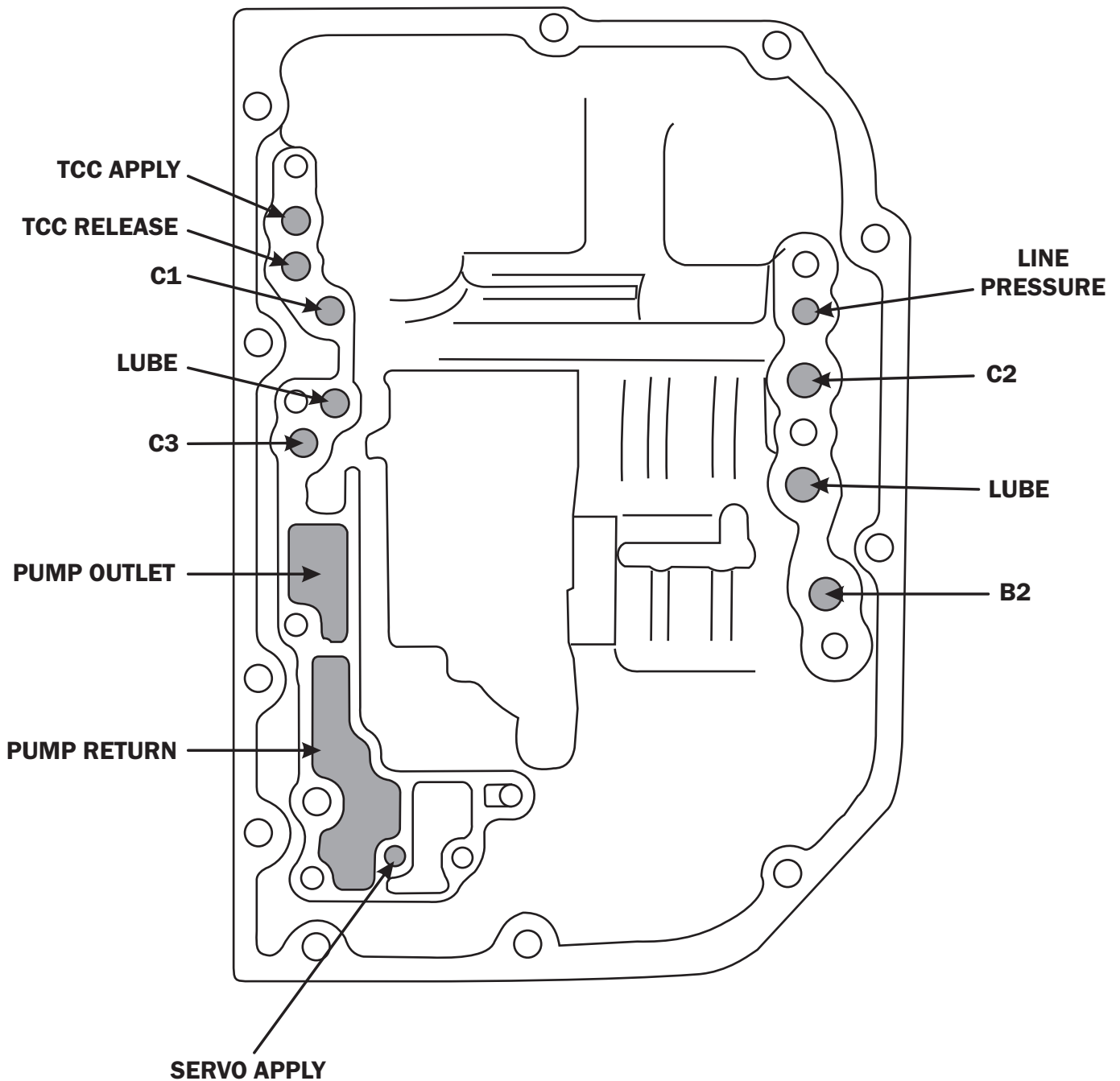


FORD A4LD



Copyright © 2011 ATSG

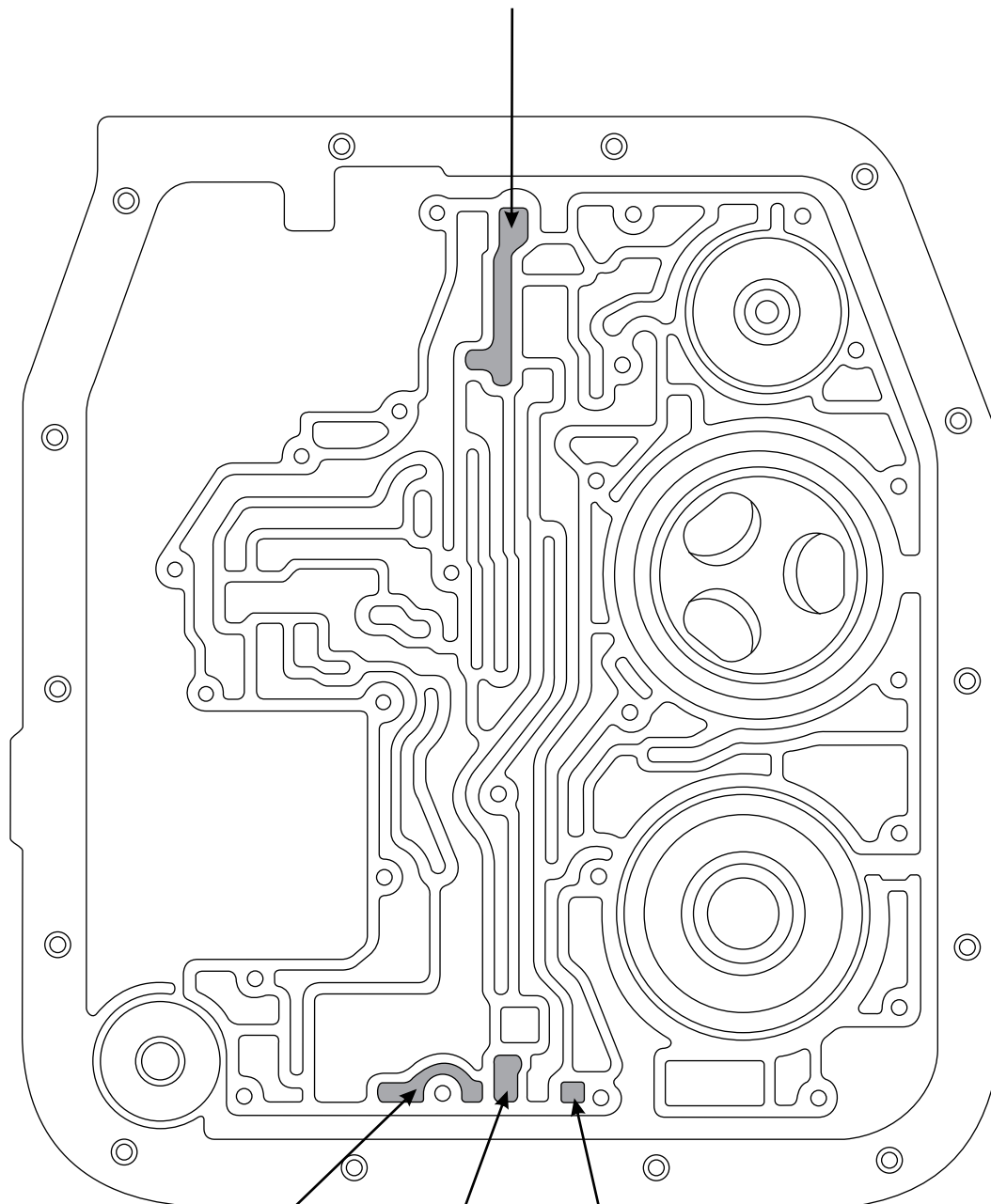
FORD 500 / AF40-6



Copyright © 2011 ATSG

FORD AOD

DIRECT CLUTCH



FORWARD CLUTCH

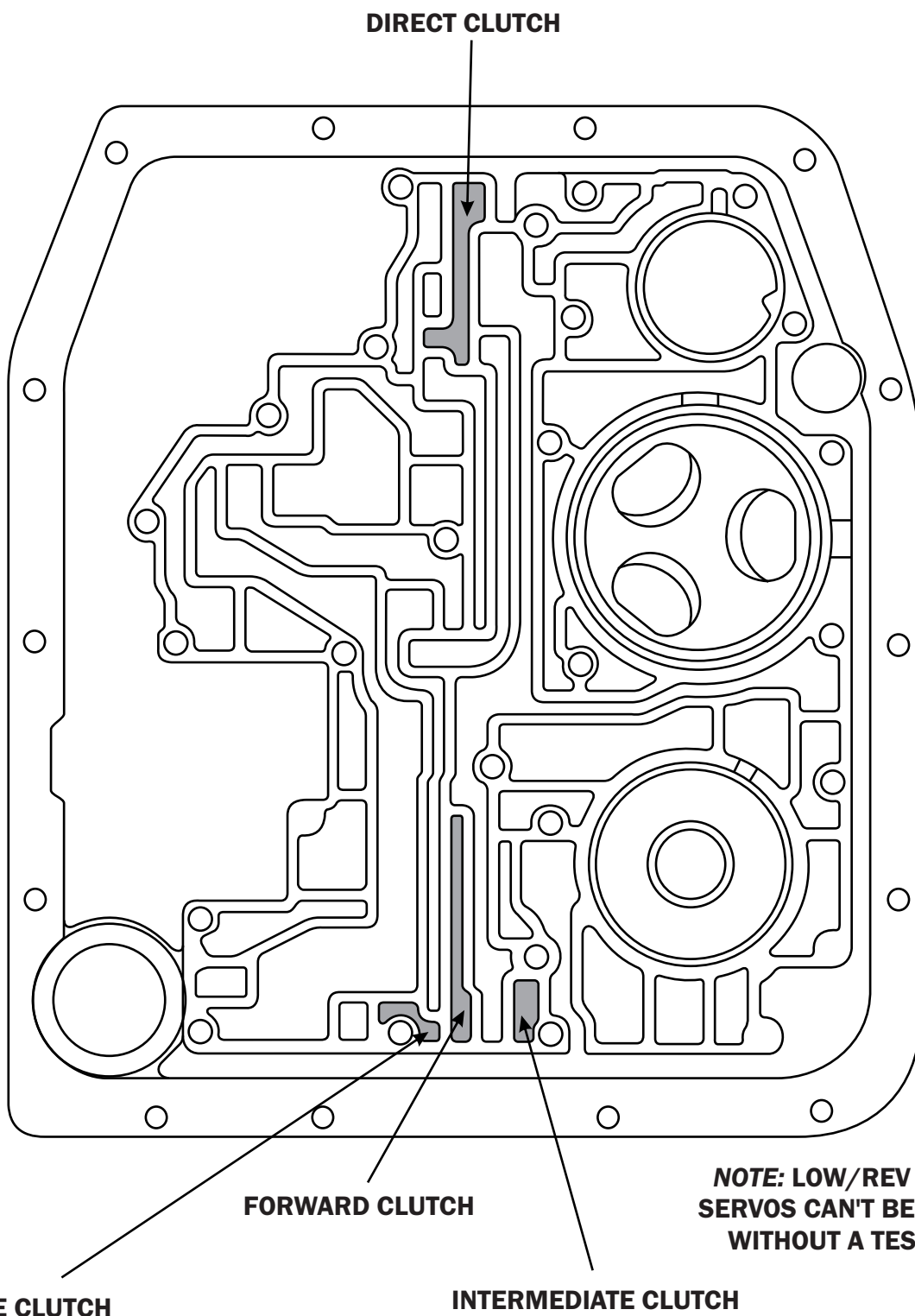
NOTE: LOW/REV AND O.D. SERVOS CAN'T BE CHECKED WITHOUT A TEST PLATE

REVERSE CLUTCH

INTERMEDIATE CLUTCH

Copyright © 2011 ATSG

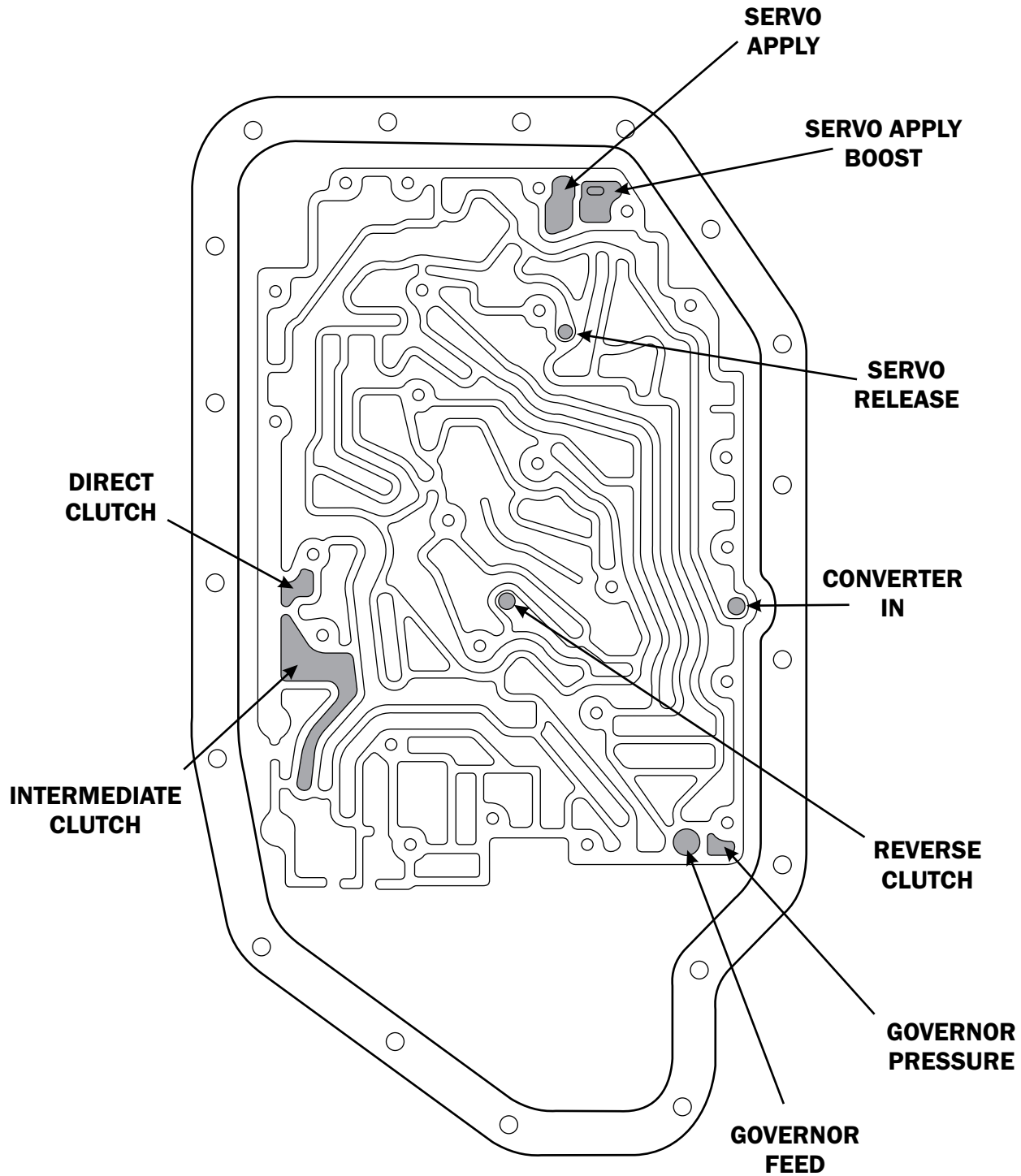
FORD AODE / 4R70W / 4R75E



NOTE: LOW/REV AND O.D. SERVOS CAN'T BE CHECKED WITHOUT A TEST PLATE

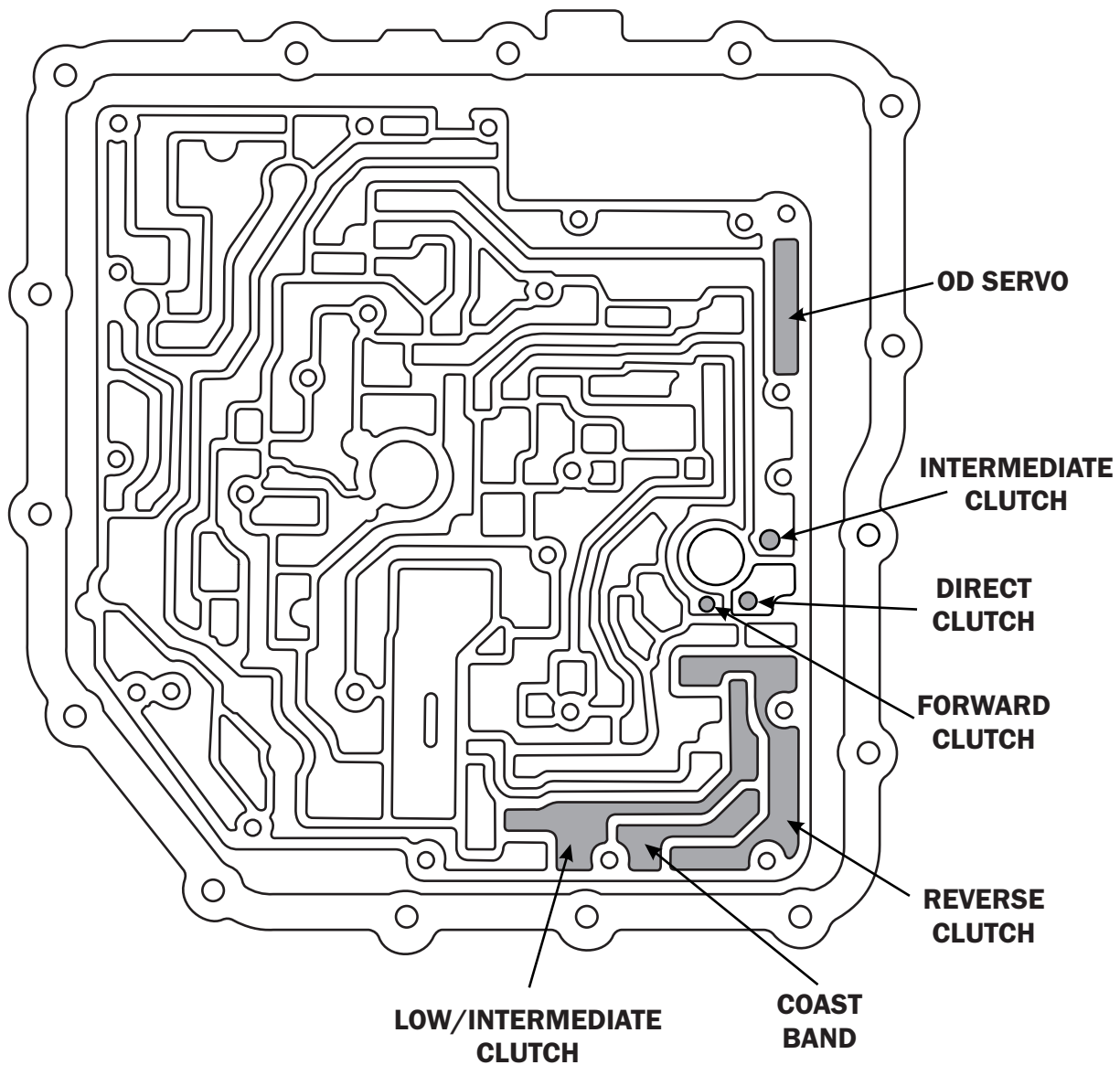
Copyright © 2011 ATSG

FORD ATX



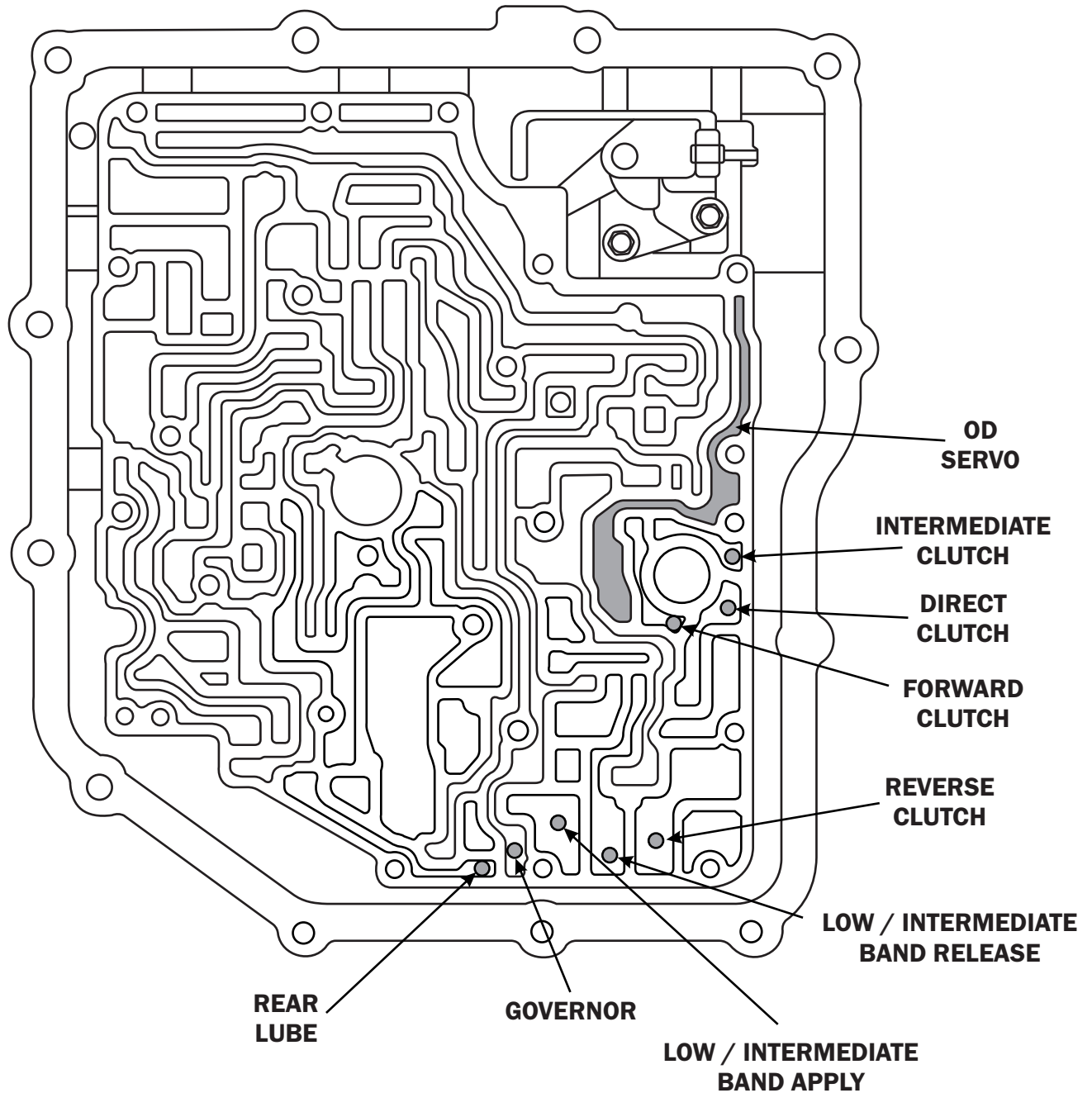
Copyright © 2011 ATSG

FORD AX4N / 4F50N



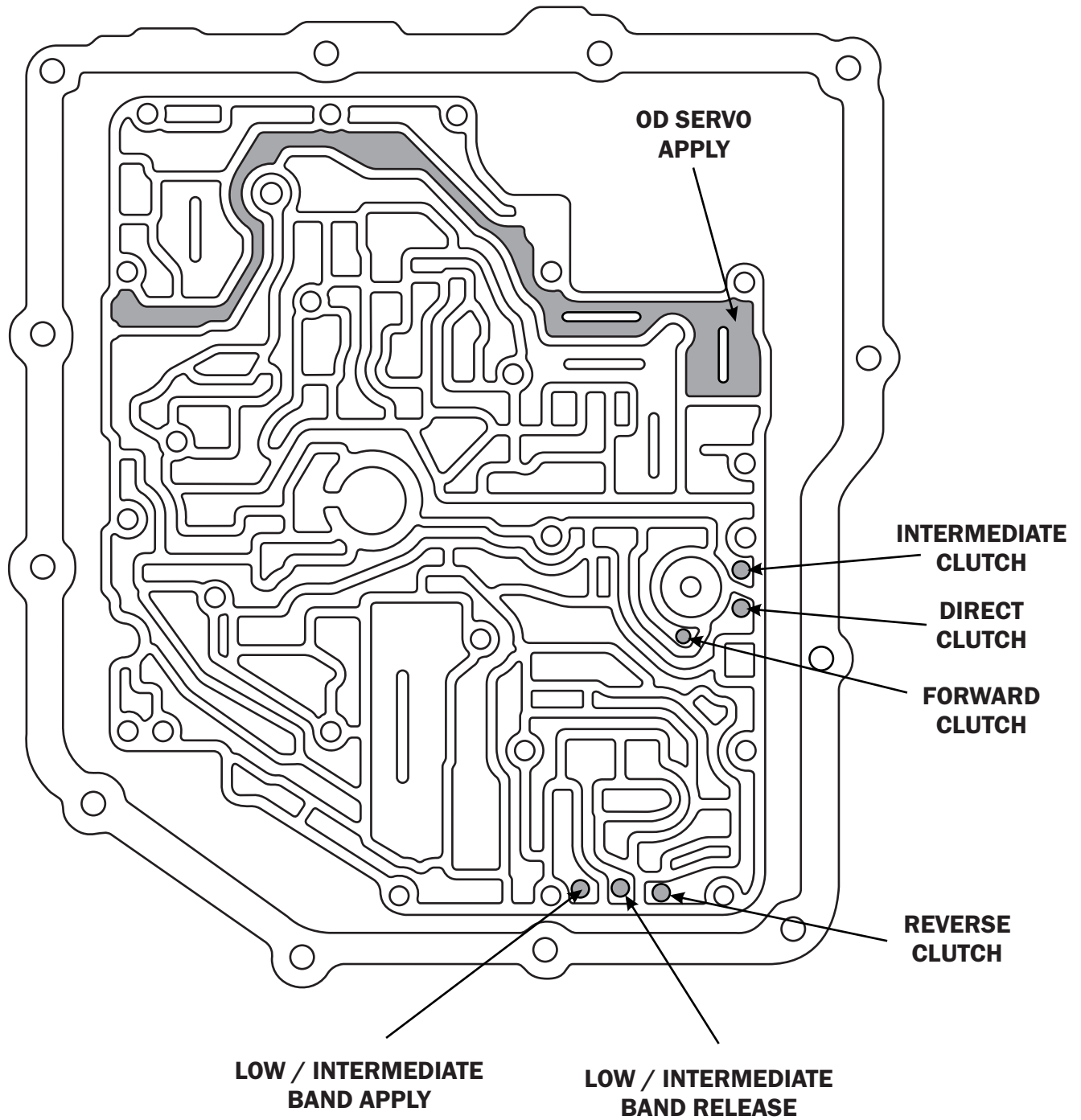
Copyright © 2011 ATSG

FORD AXOD



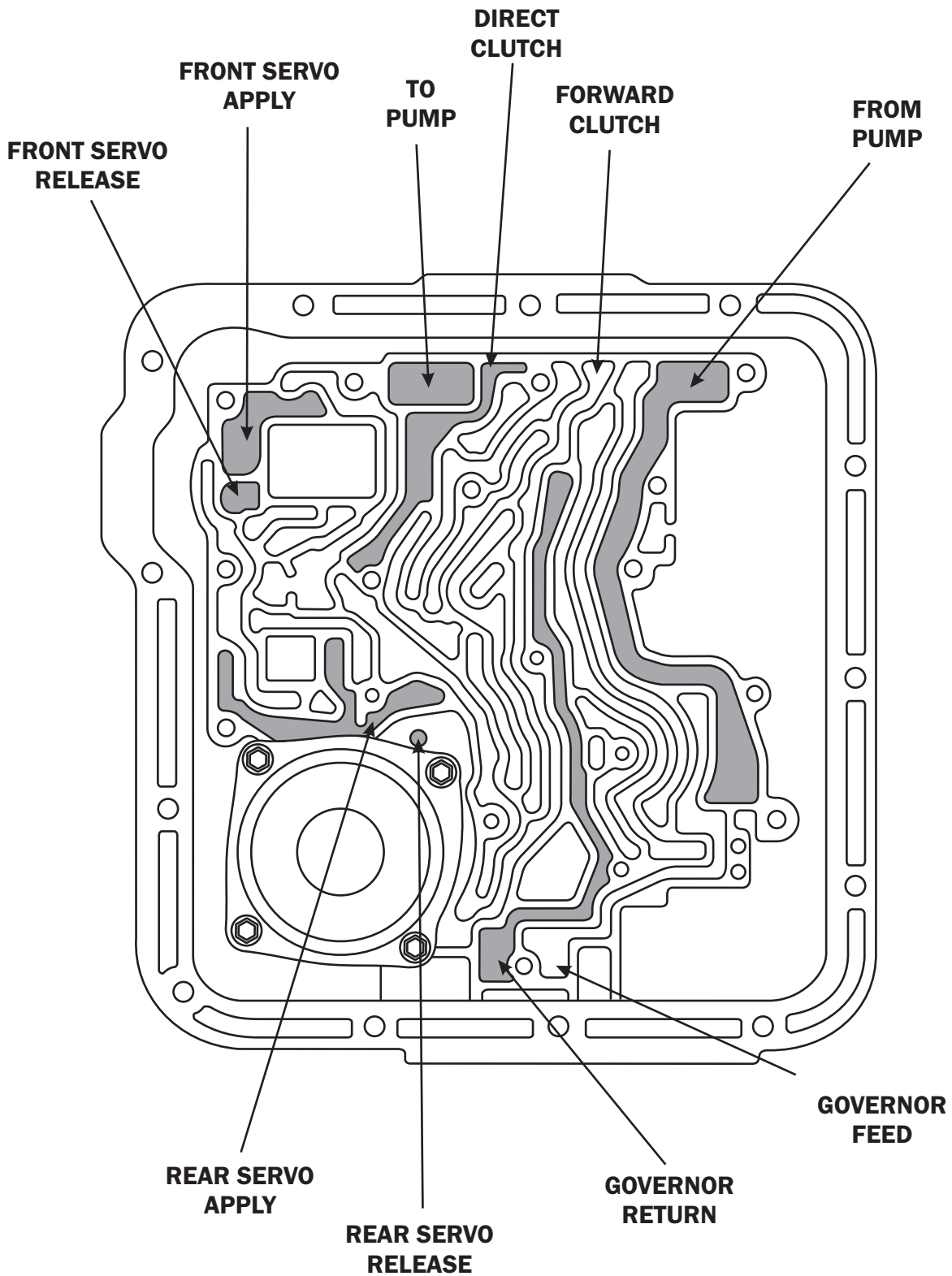
Copyright © 2011 ATSG

FORD AXODE / AX4S



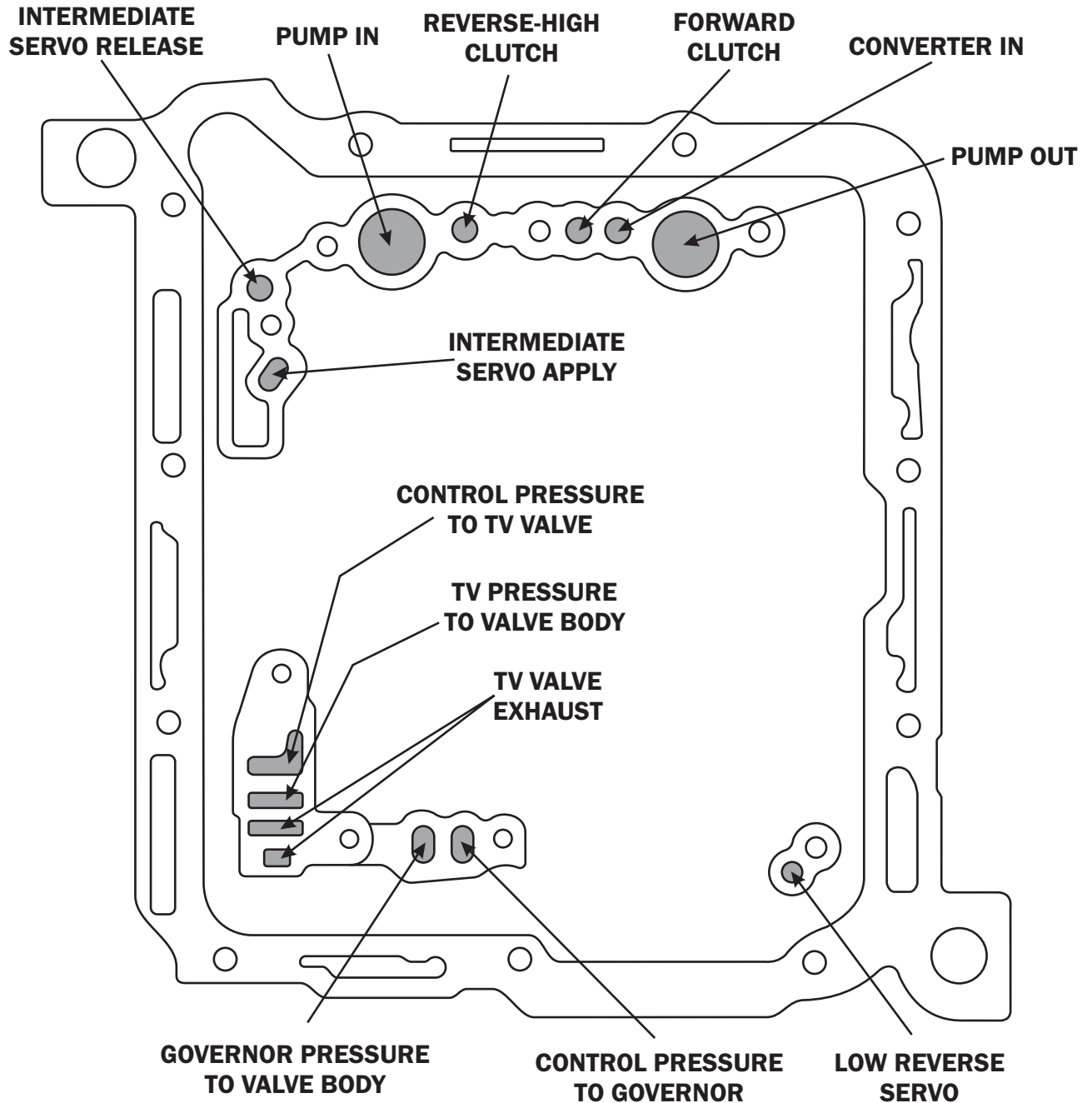
Copyright © 2011 ATSG

FORD C3



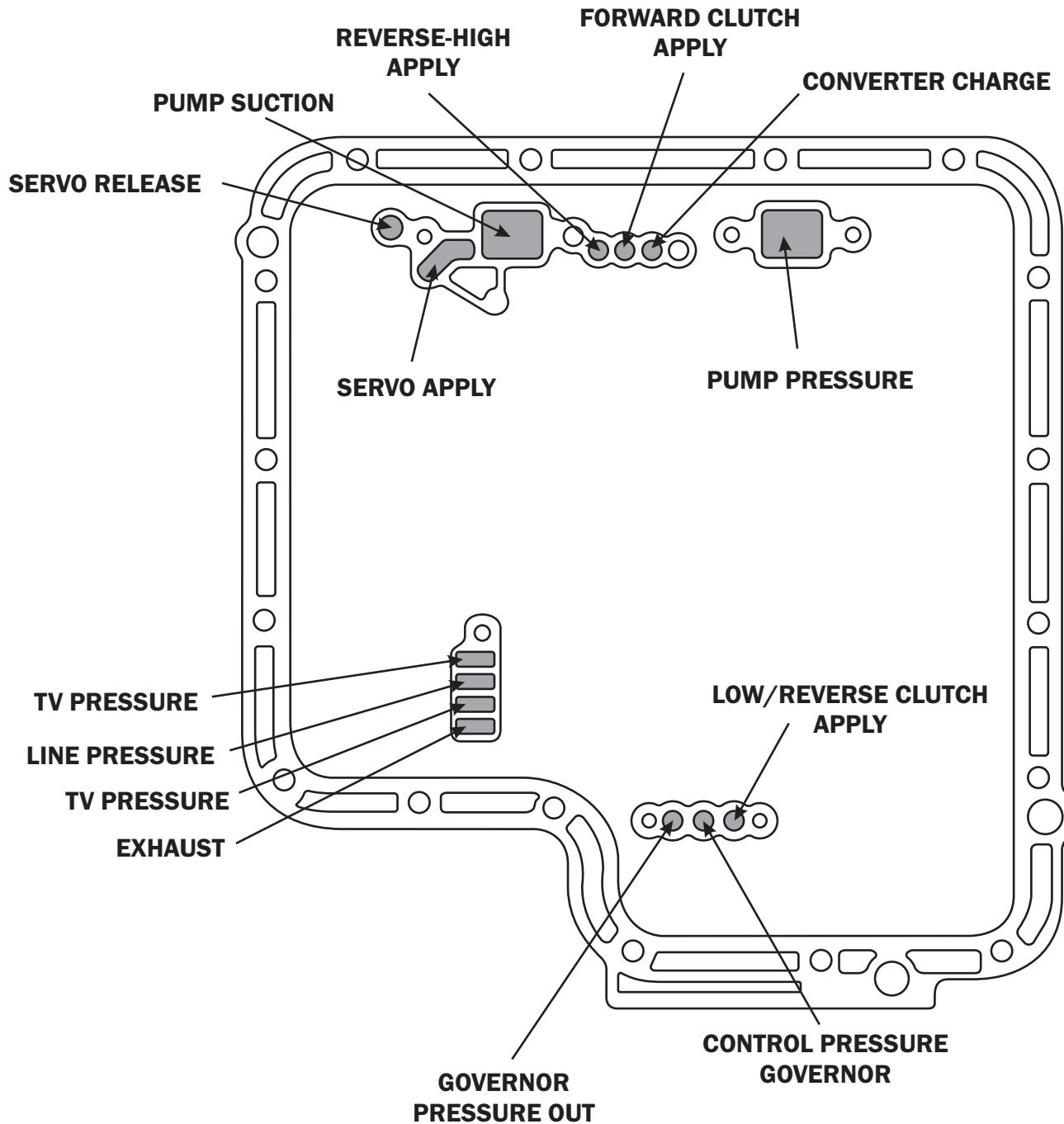
Copyright © 2011 ATSG

FORD C4 / C5



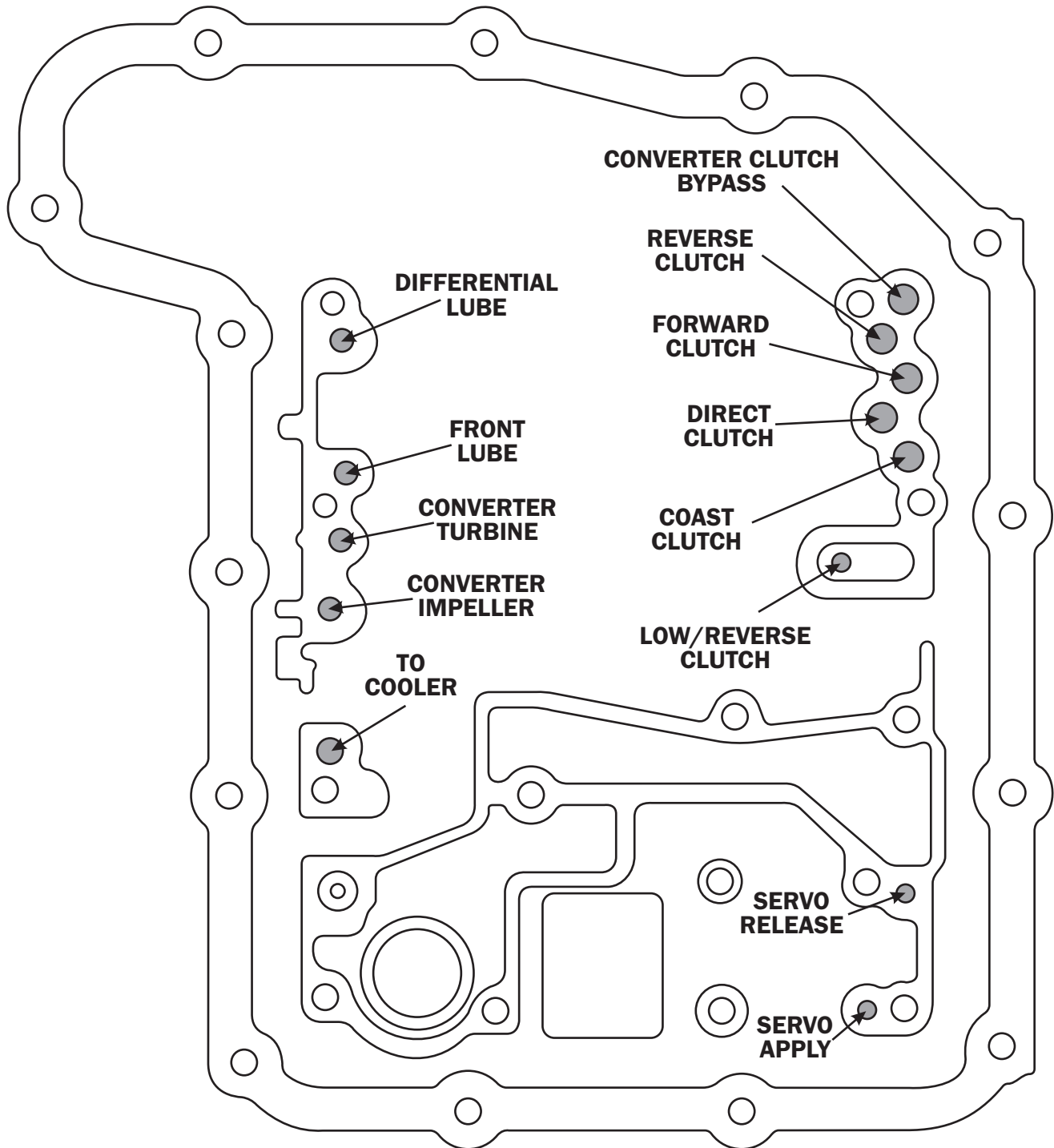
Copyright © 2011 ATSG

FORD C6



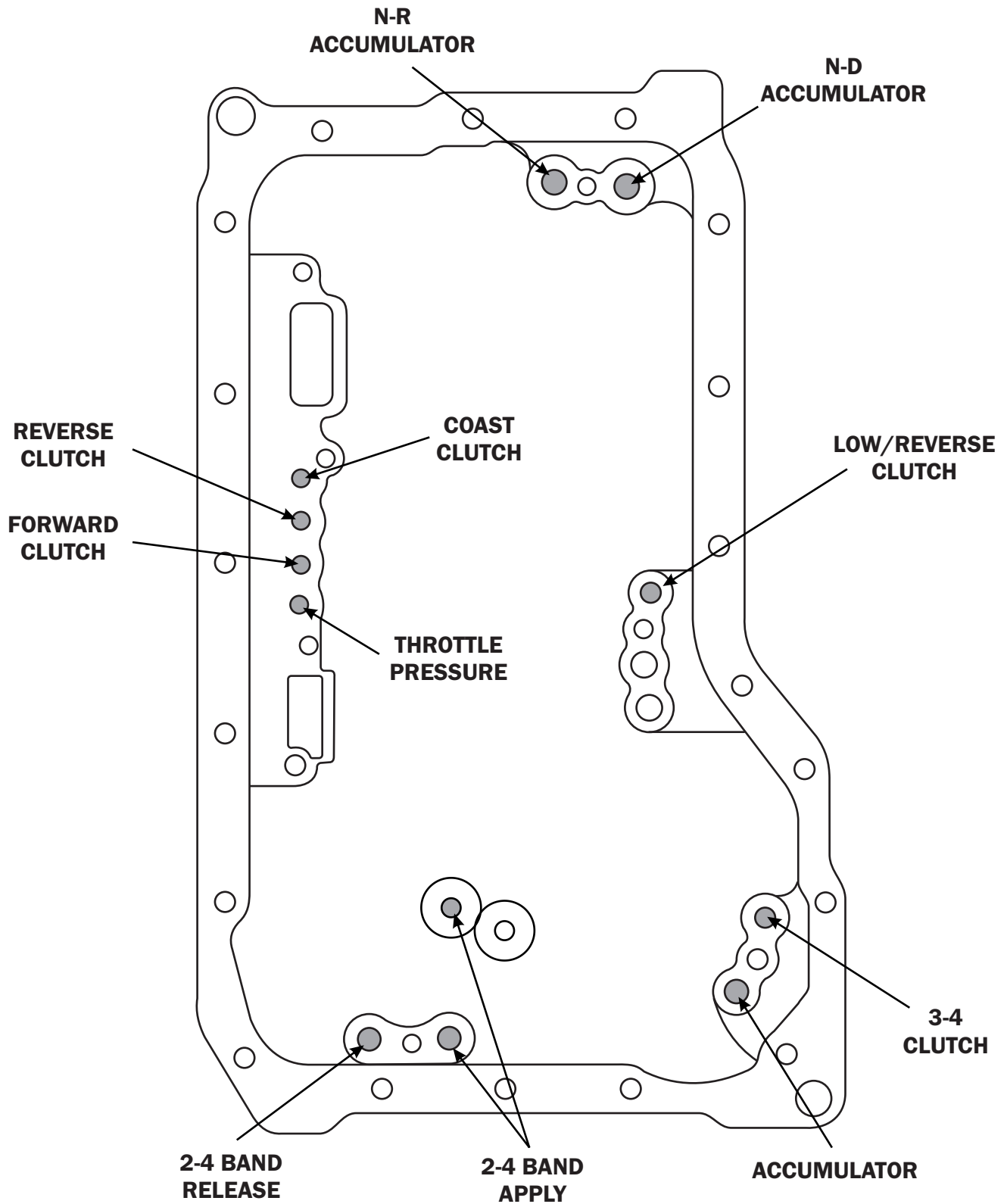
Copyright © 2011 ATSG

FORD CD4E



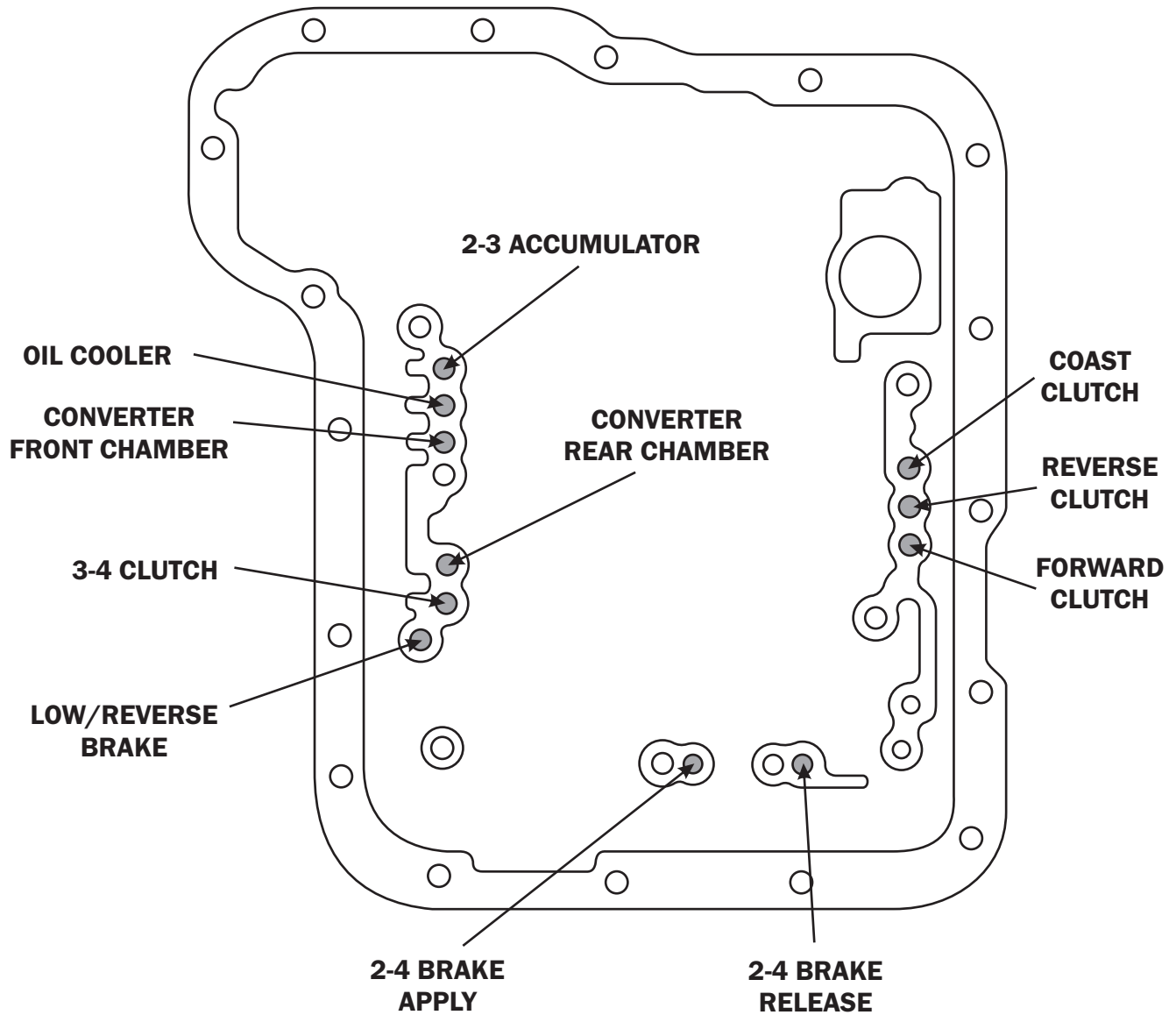
Copyright © 2011 ATSG

FORD F4EAT / F4AEL / F4EIII



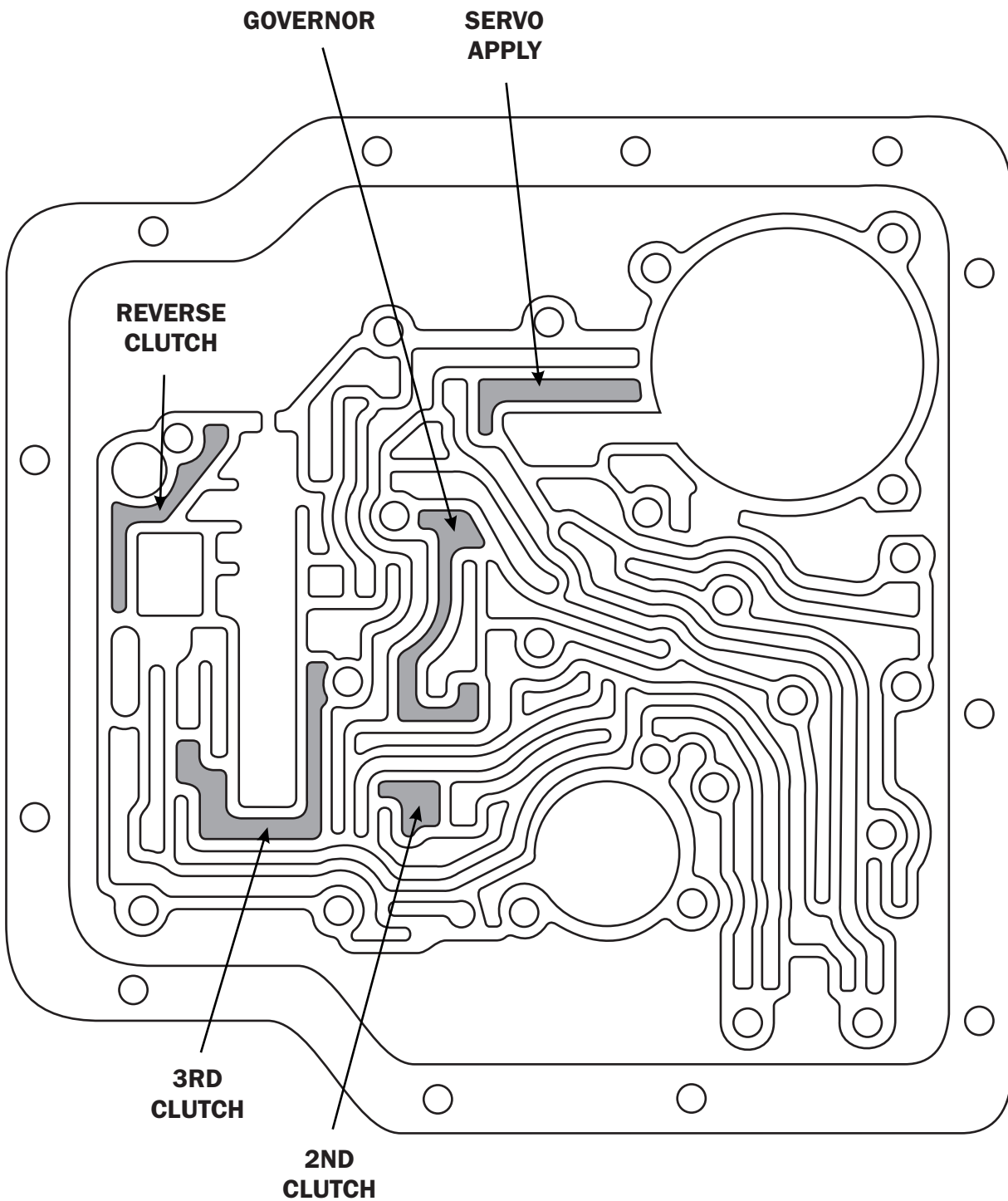
Copyright © 2011 ATSG

FORD GF4AEL / GF4EAT / G4AEL / G4AHL



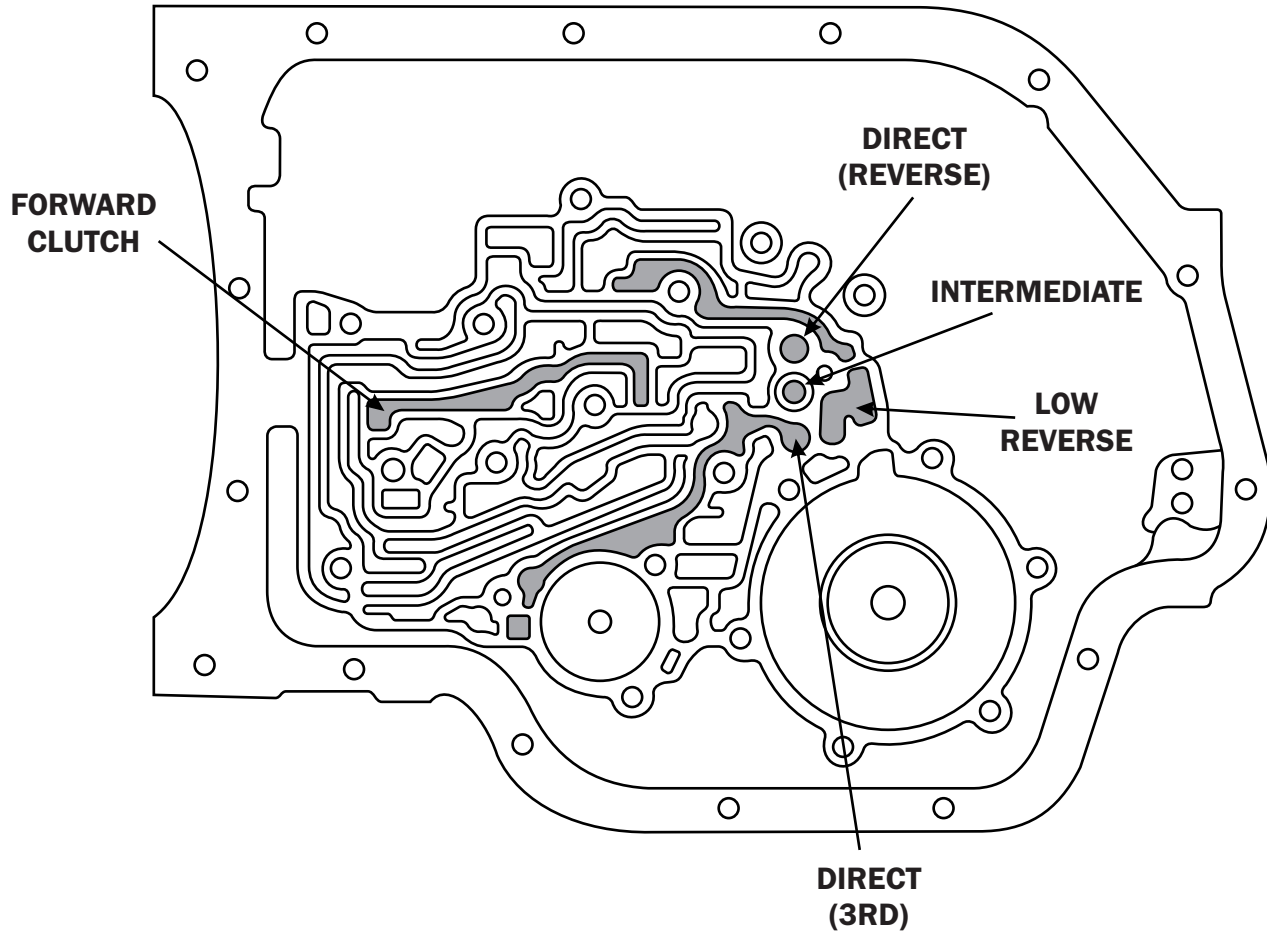
Copyright © 2011 ATSG

GM 3L30 / 180C



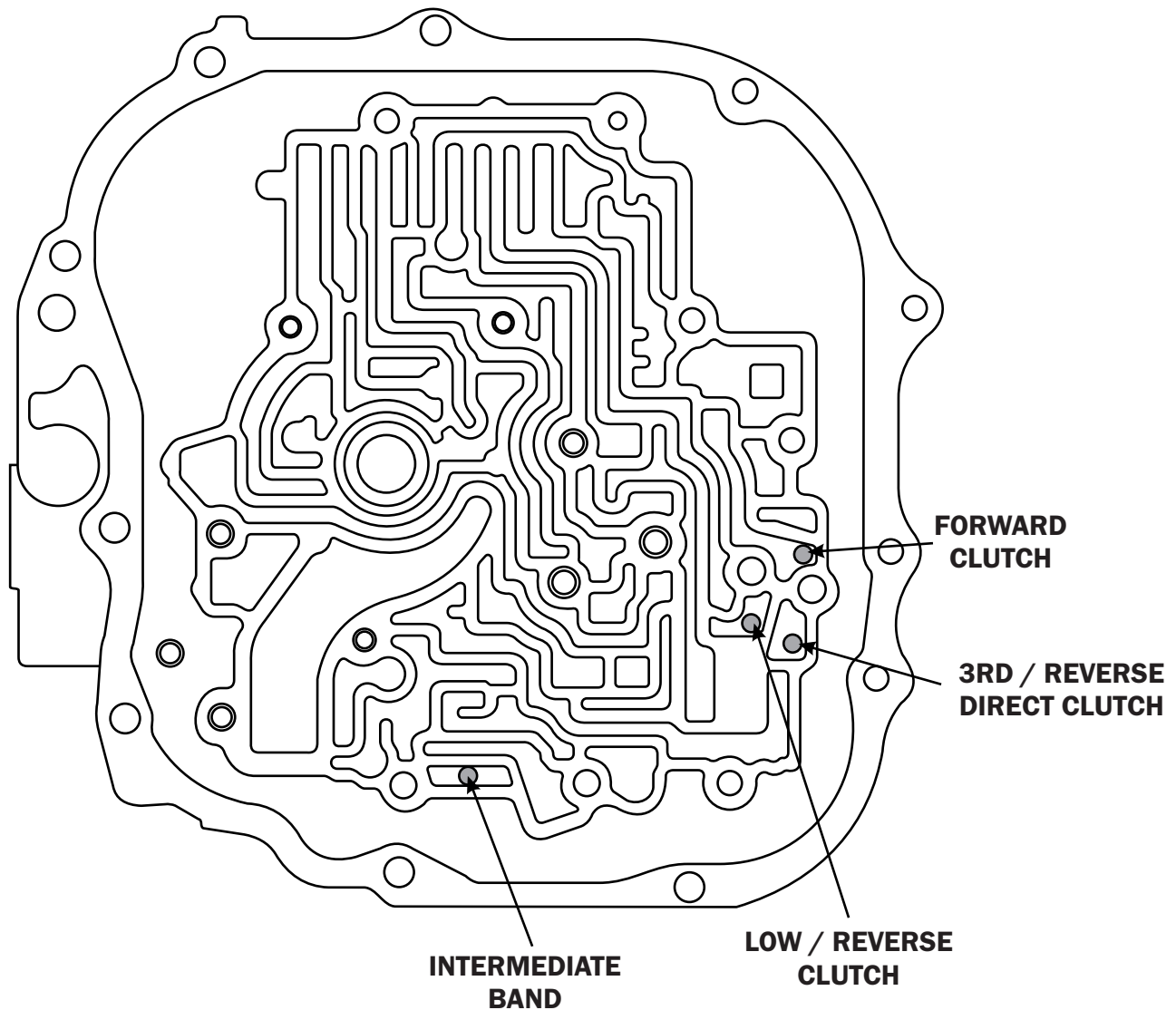
Copyright © 2011 ATSG

GM 3L80 / 400



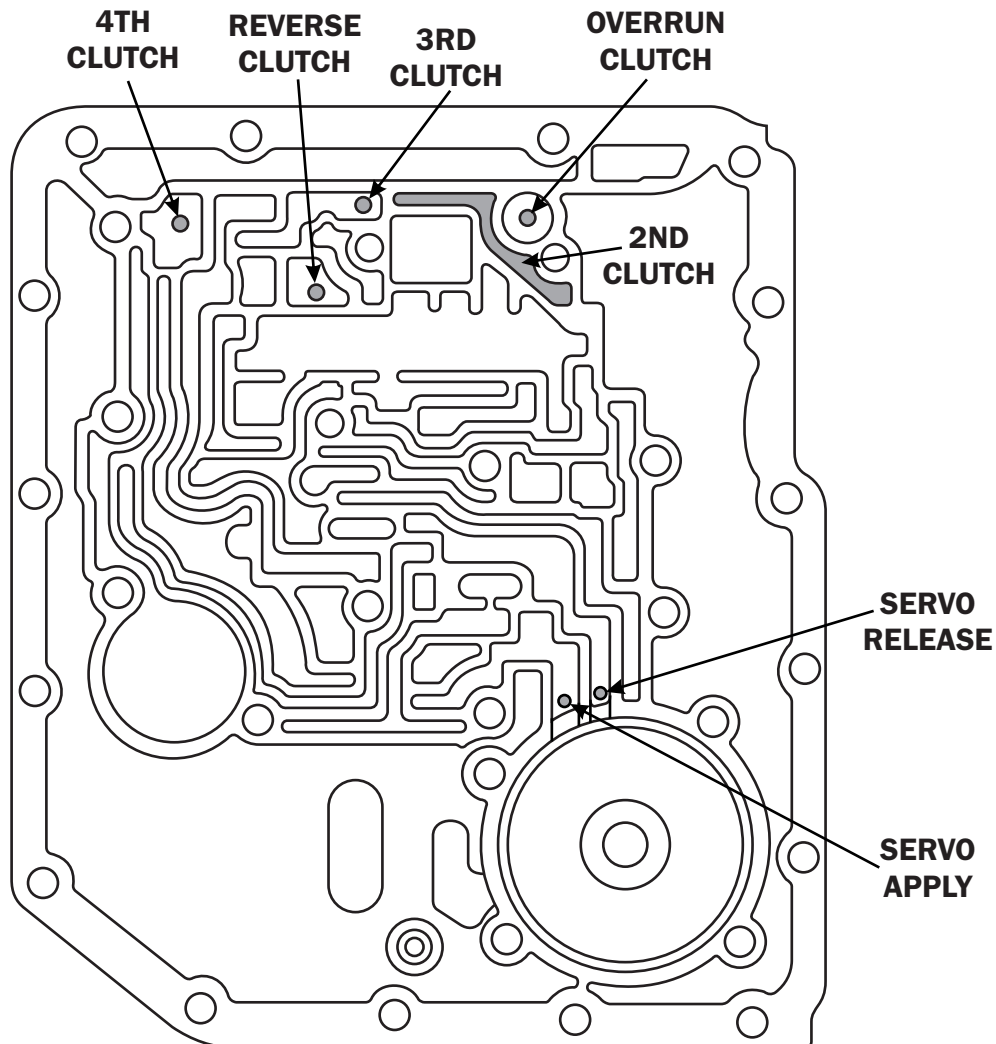
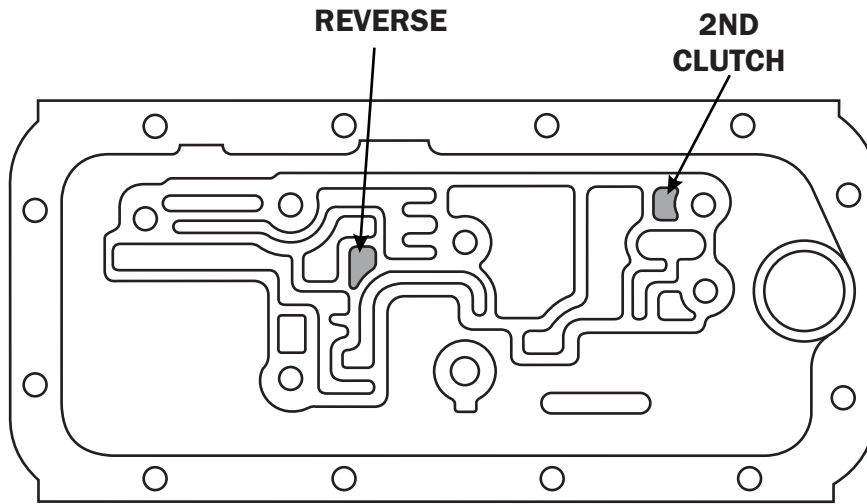
Copyright © 2011 ATSG

GM 3T40 / 125C



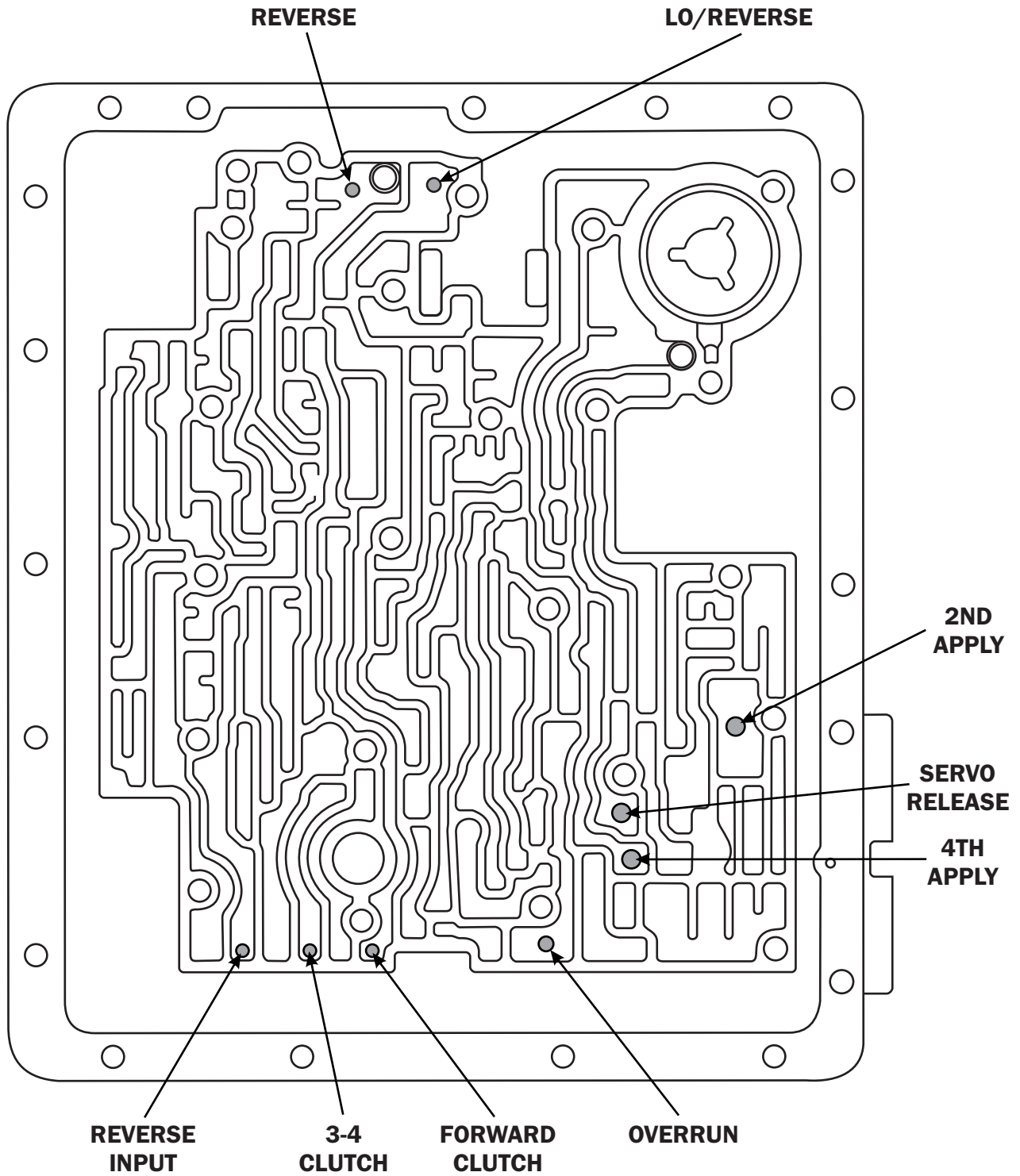
Copyright © 2011 ATSG

GM 4L30E



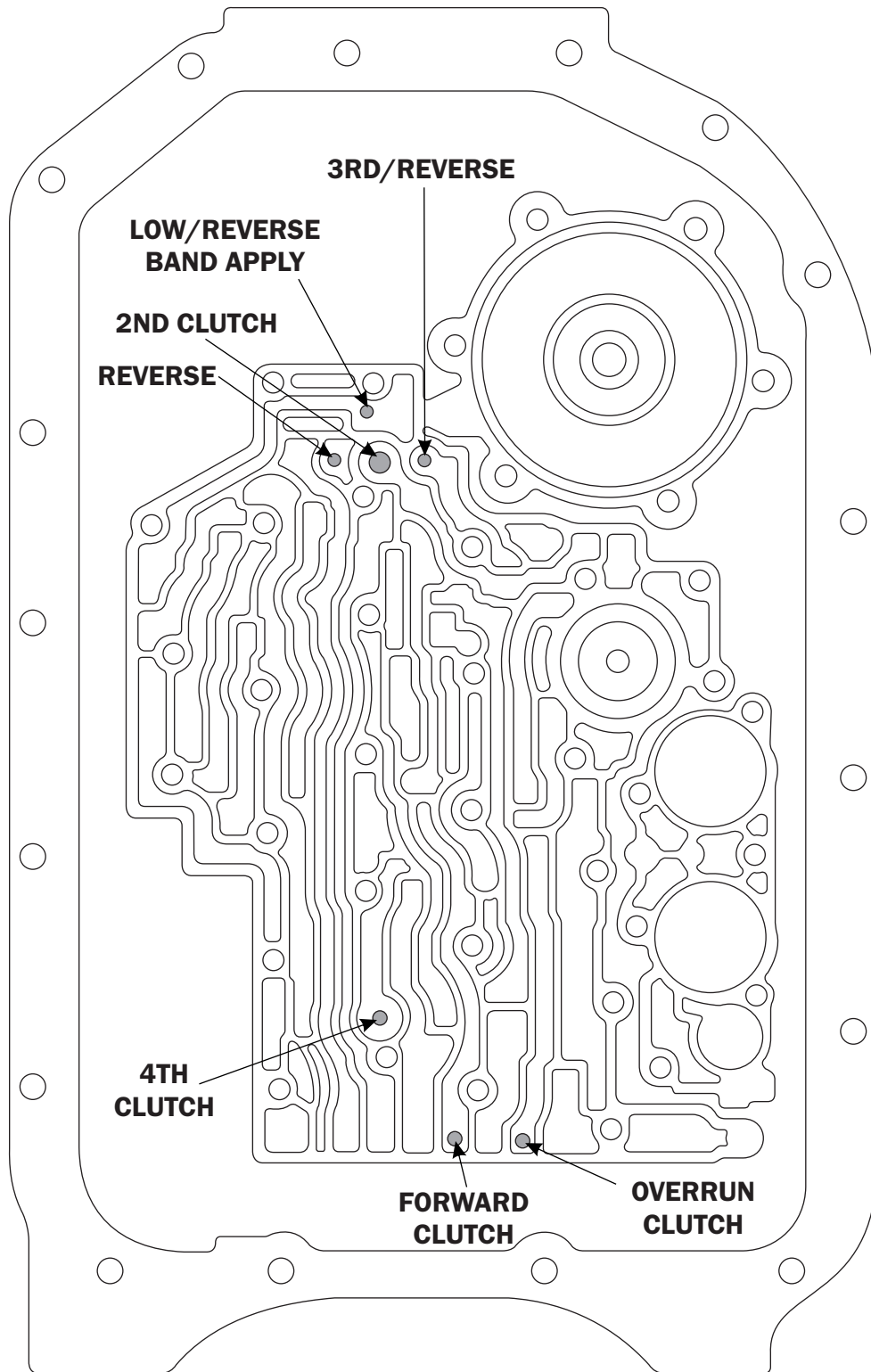
Copyright © 2011 ATSG

GM 4L60 / 65 / 70E



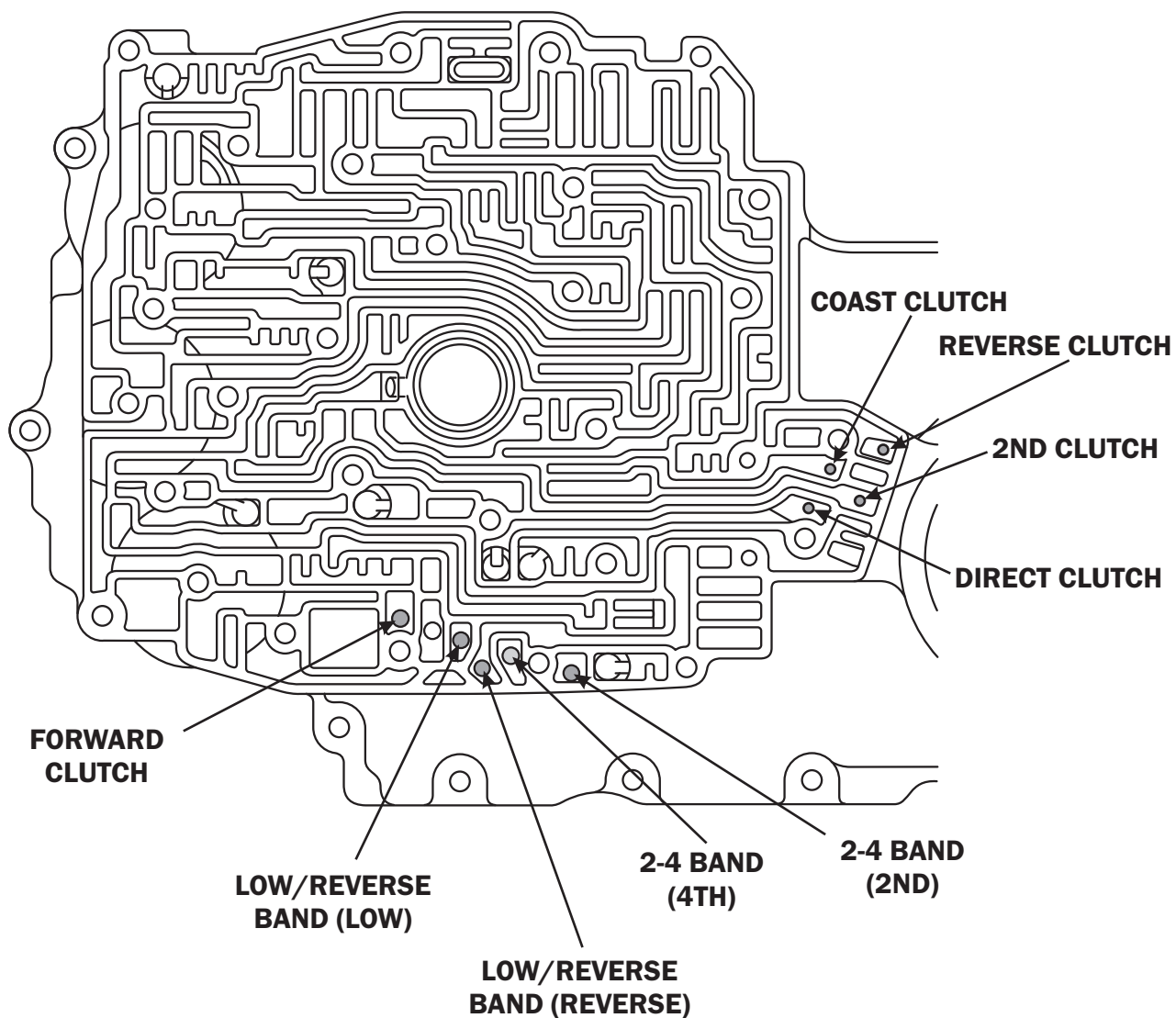
Copyright © 2011 ATSG

GM 4L80E



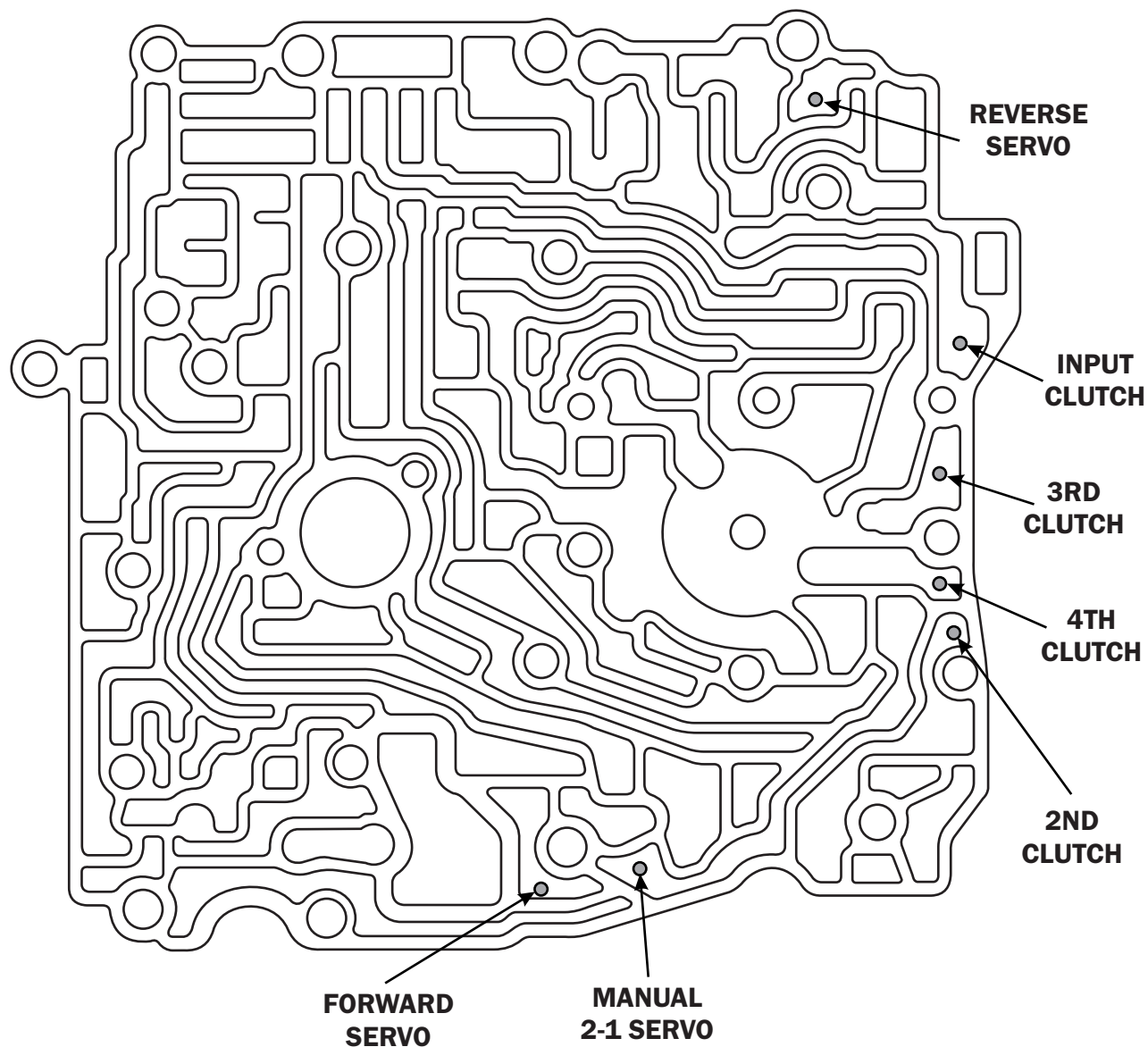
Copyright © 2011 ATSG

GM 4T40 / 4T45E



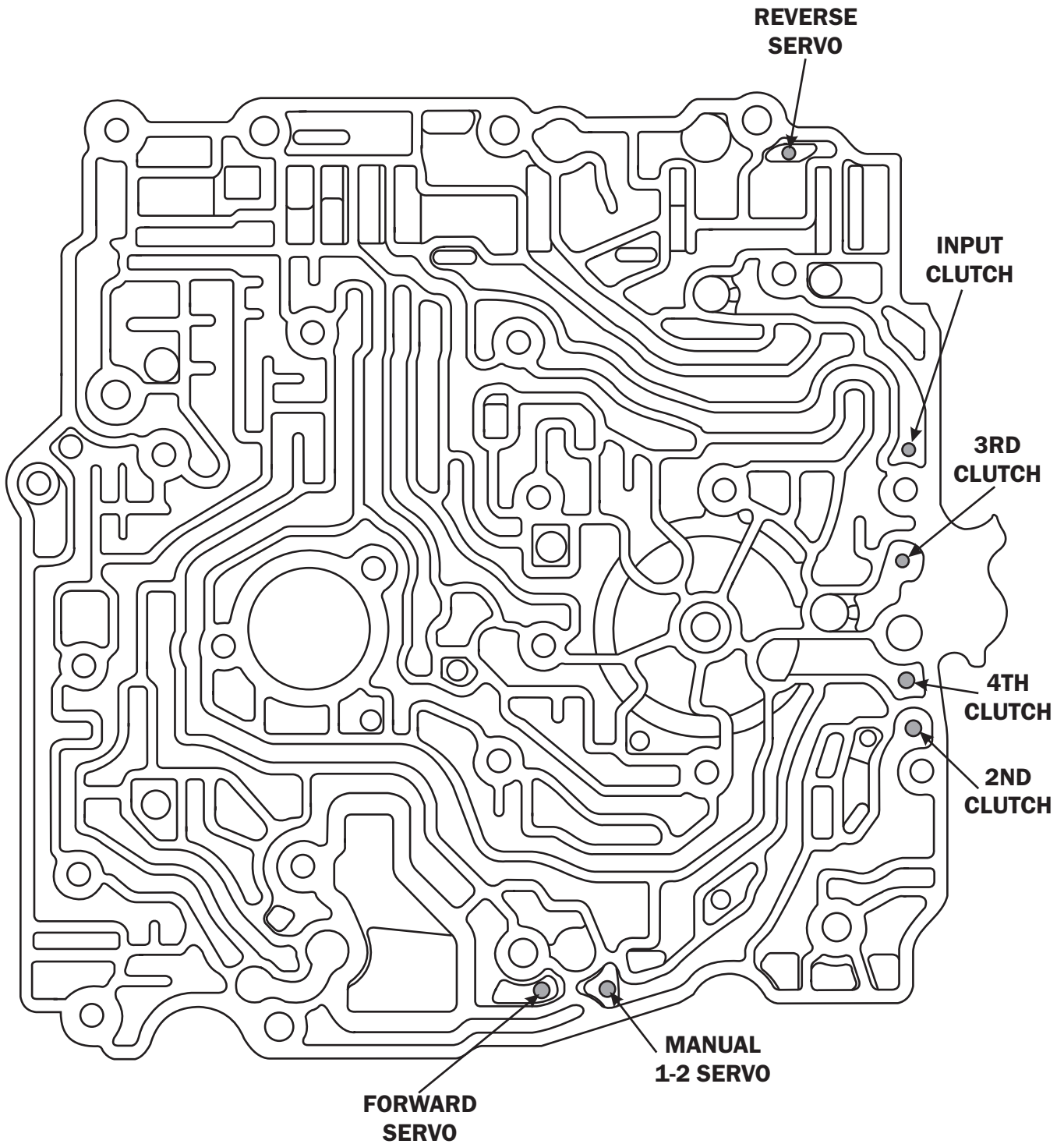
Copyright © 2011 ATSG

GM 4T60E



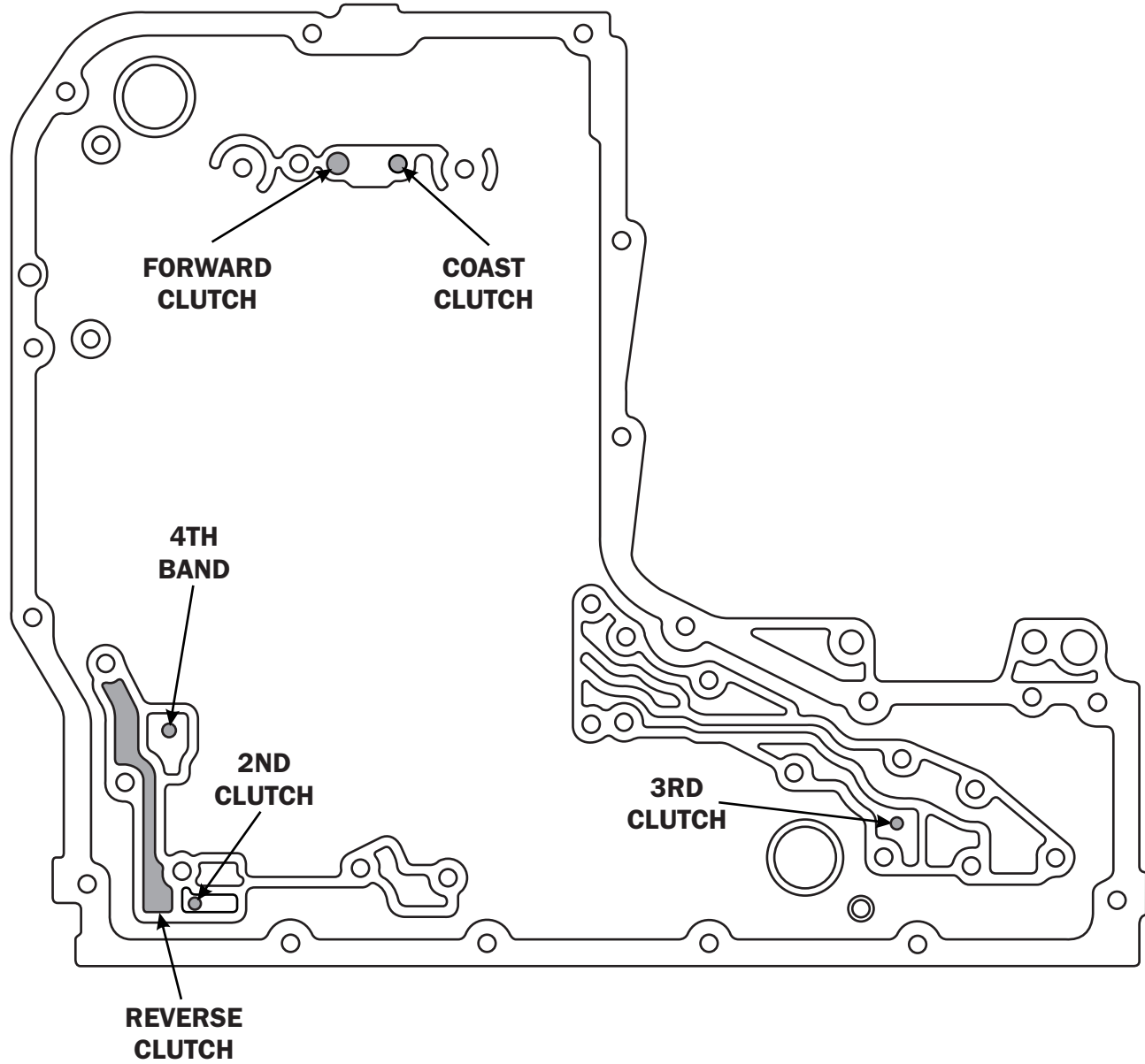
Copyright © 2011 ATSG

GM 4T65E



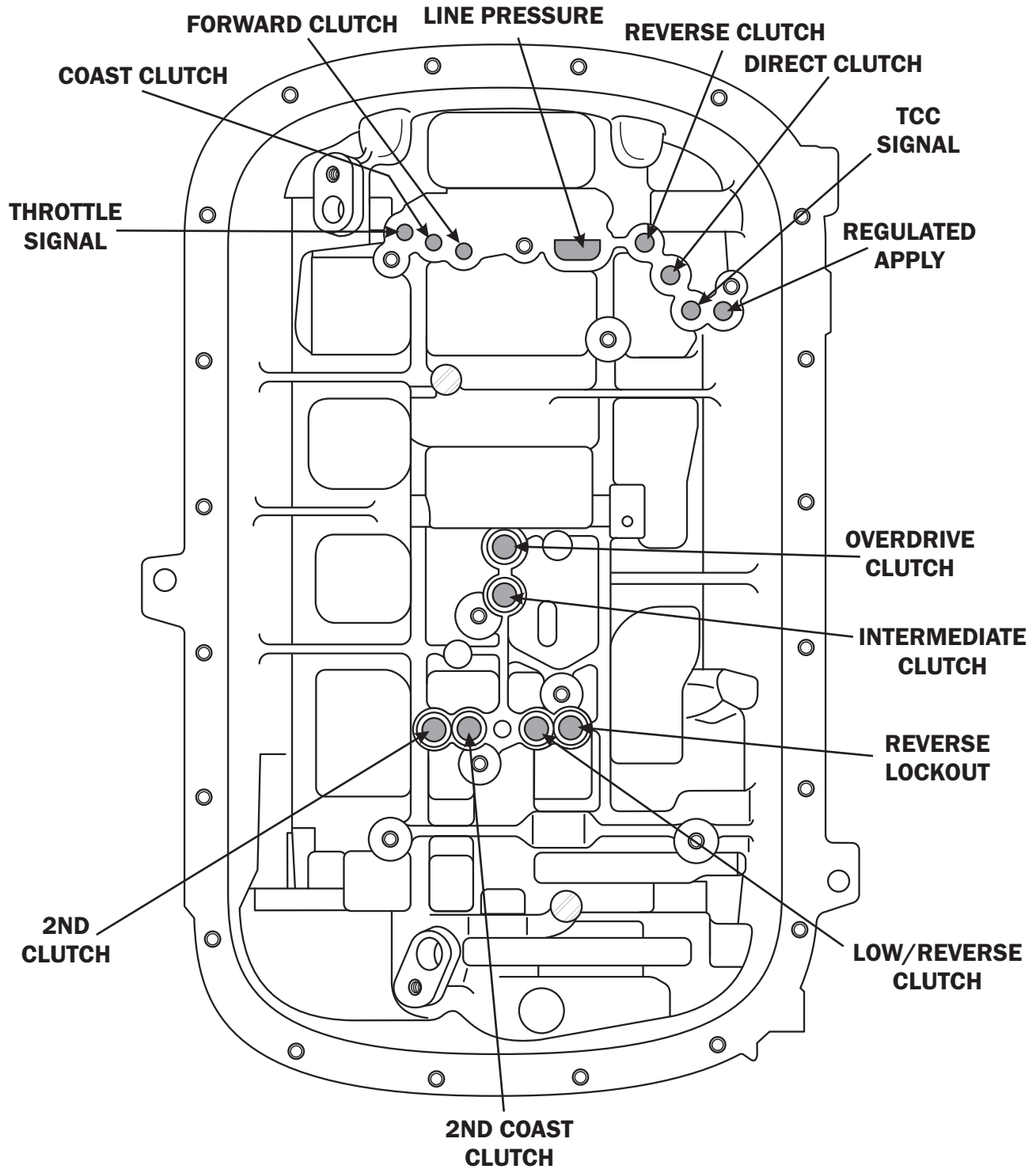
Copyright © 2011 ATSG

GM 4T80E



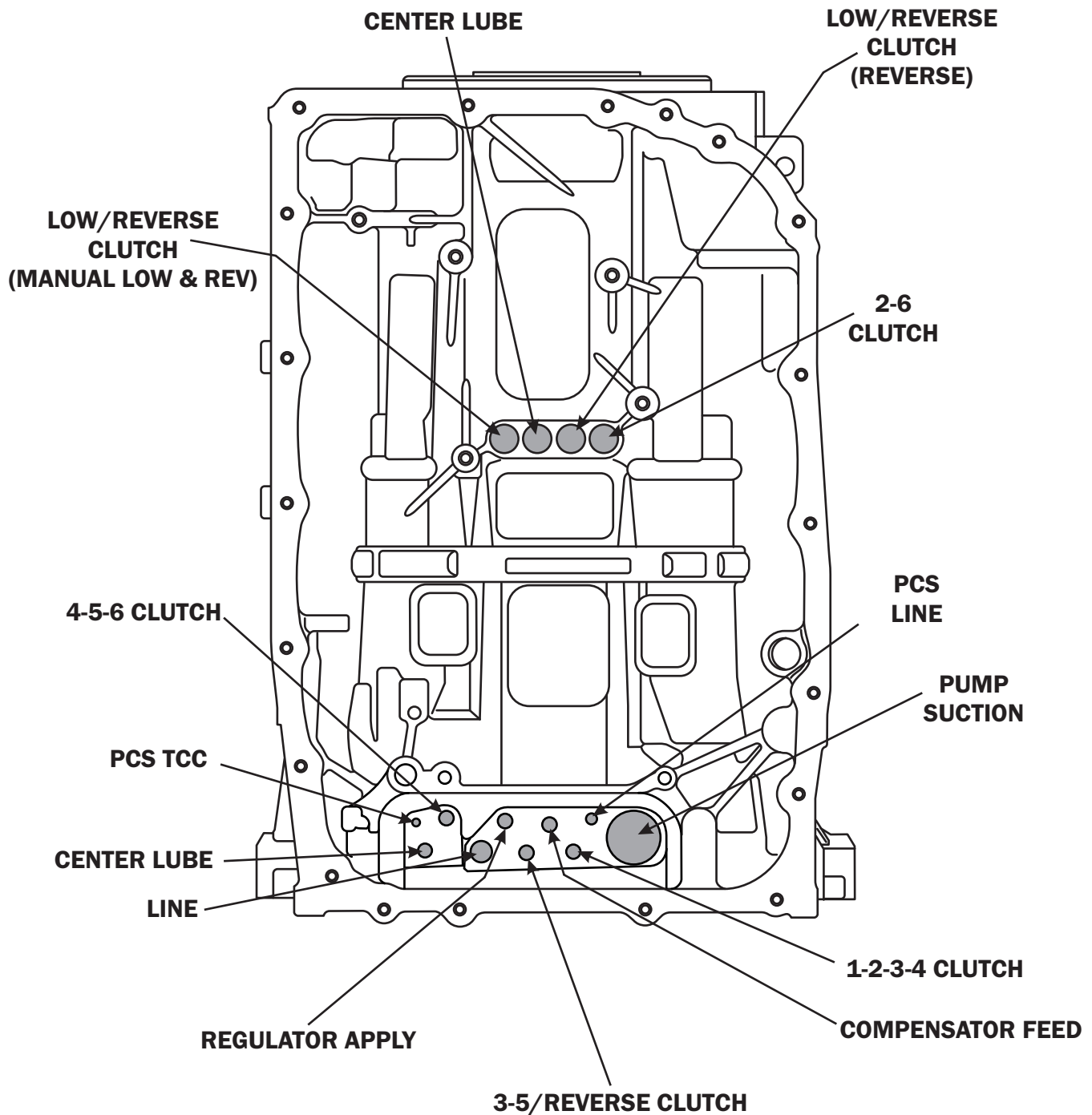
Copyright © 2011 ATSG

GM 5L40E



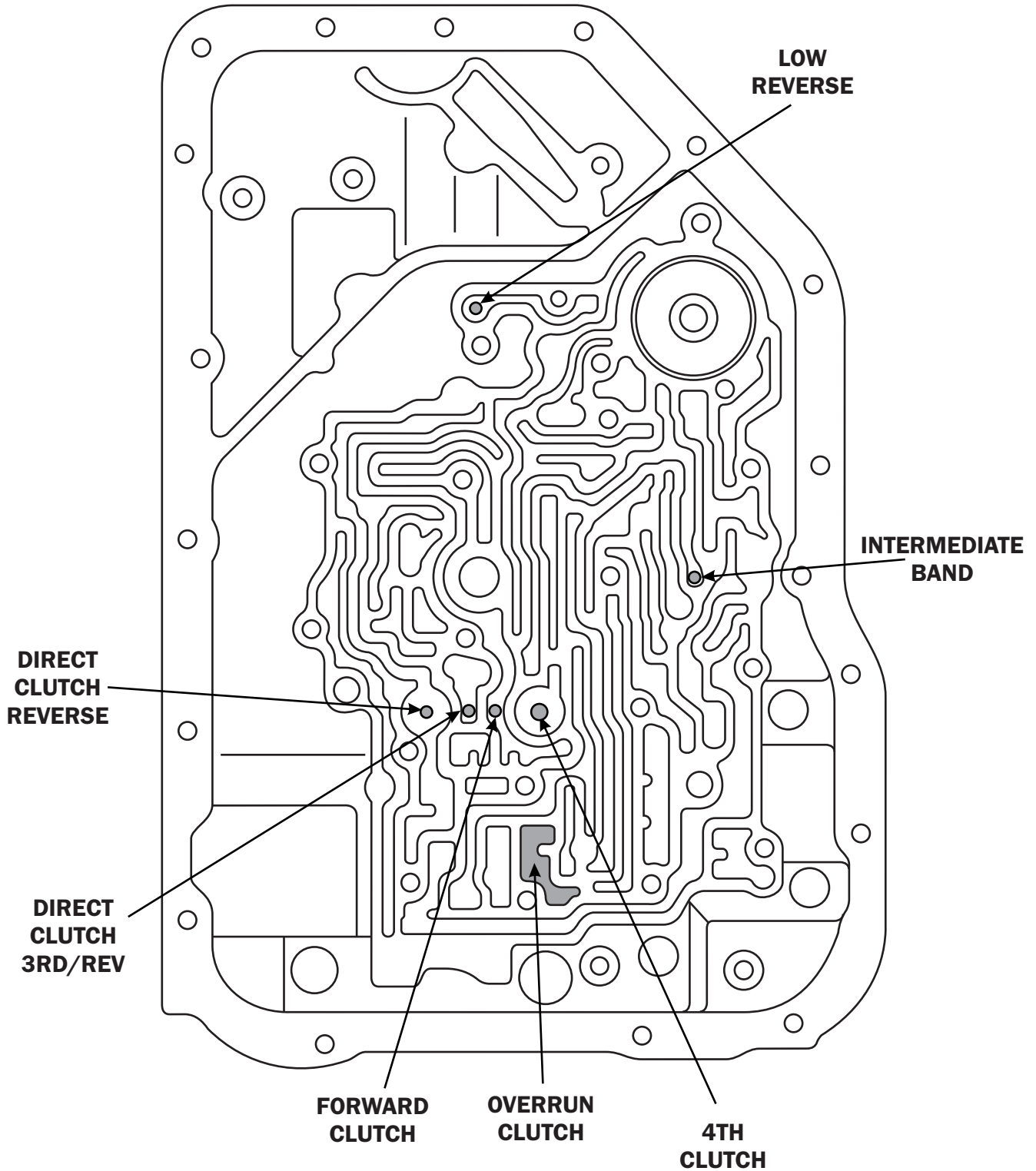
Copyright © 2011 ATSG

GM 6L80



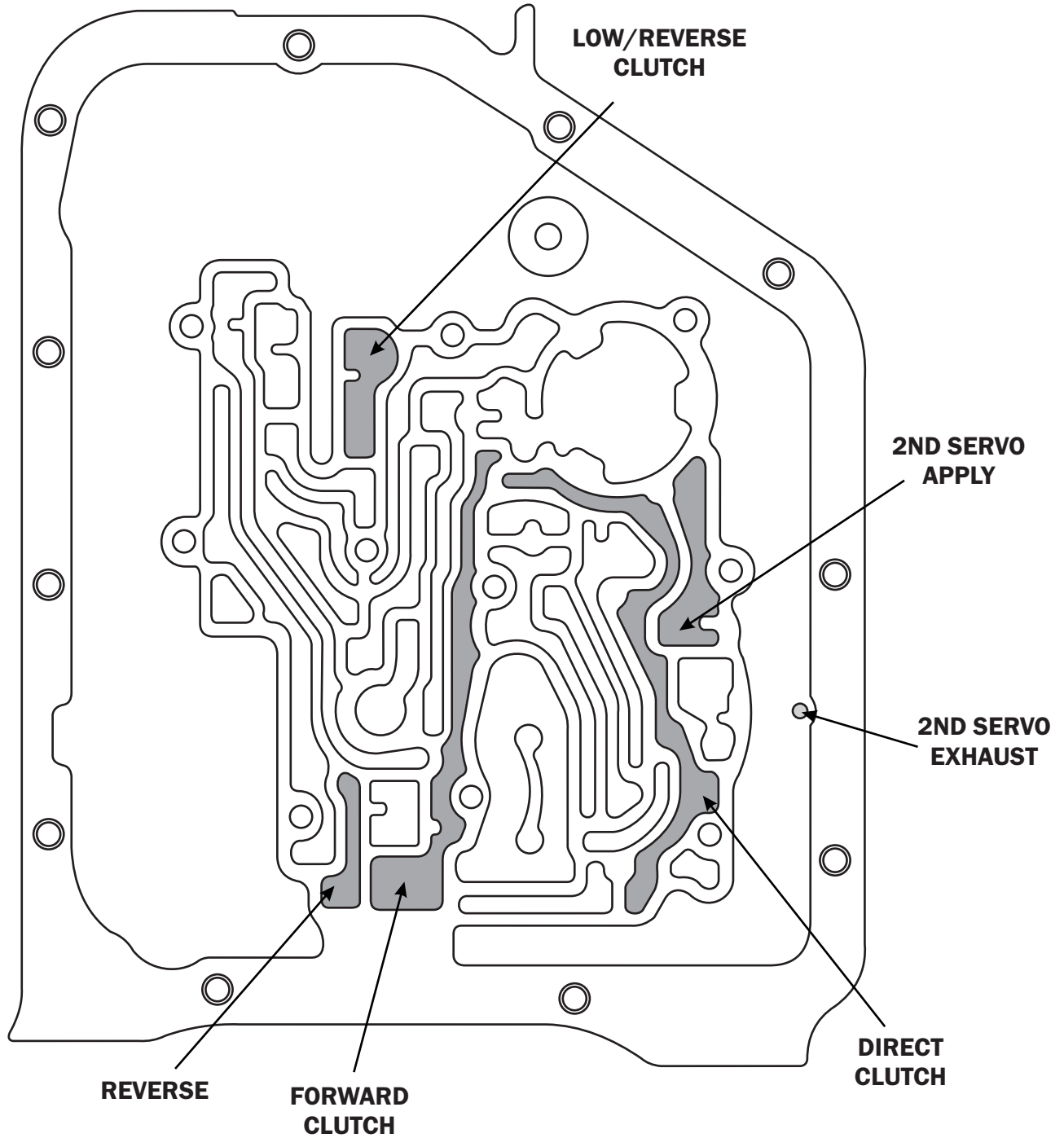
Copyright © 2011 ATSG

GM 2004R



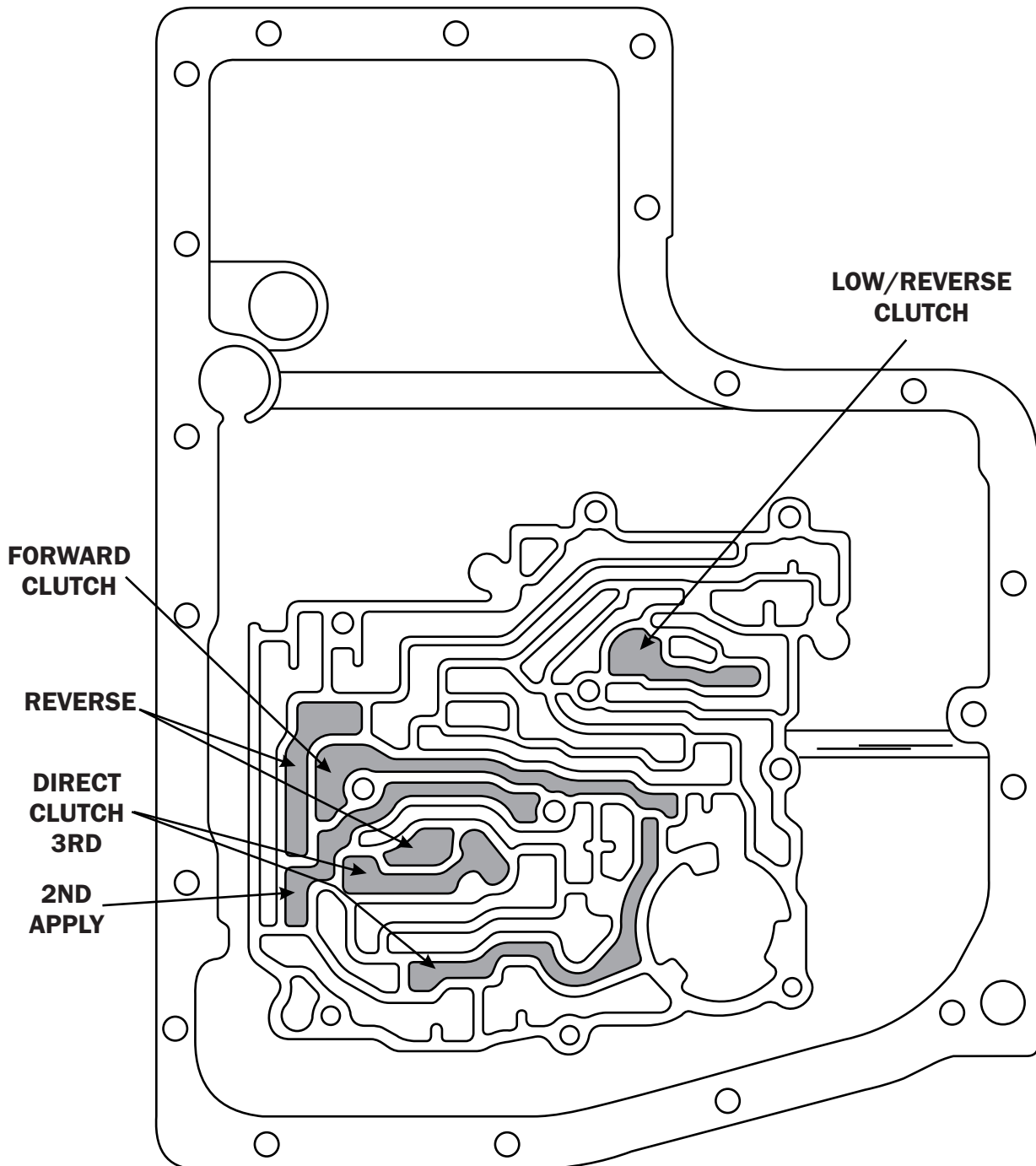
Copyright © 2011 ATSG

GM 200C



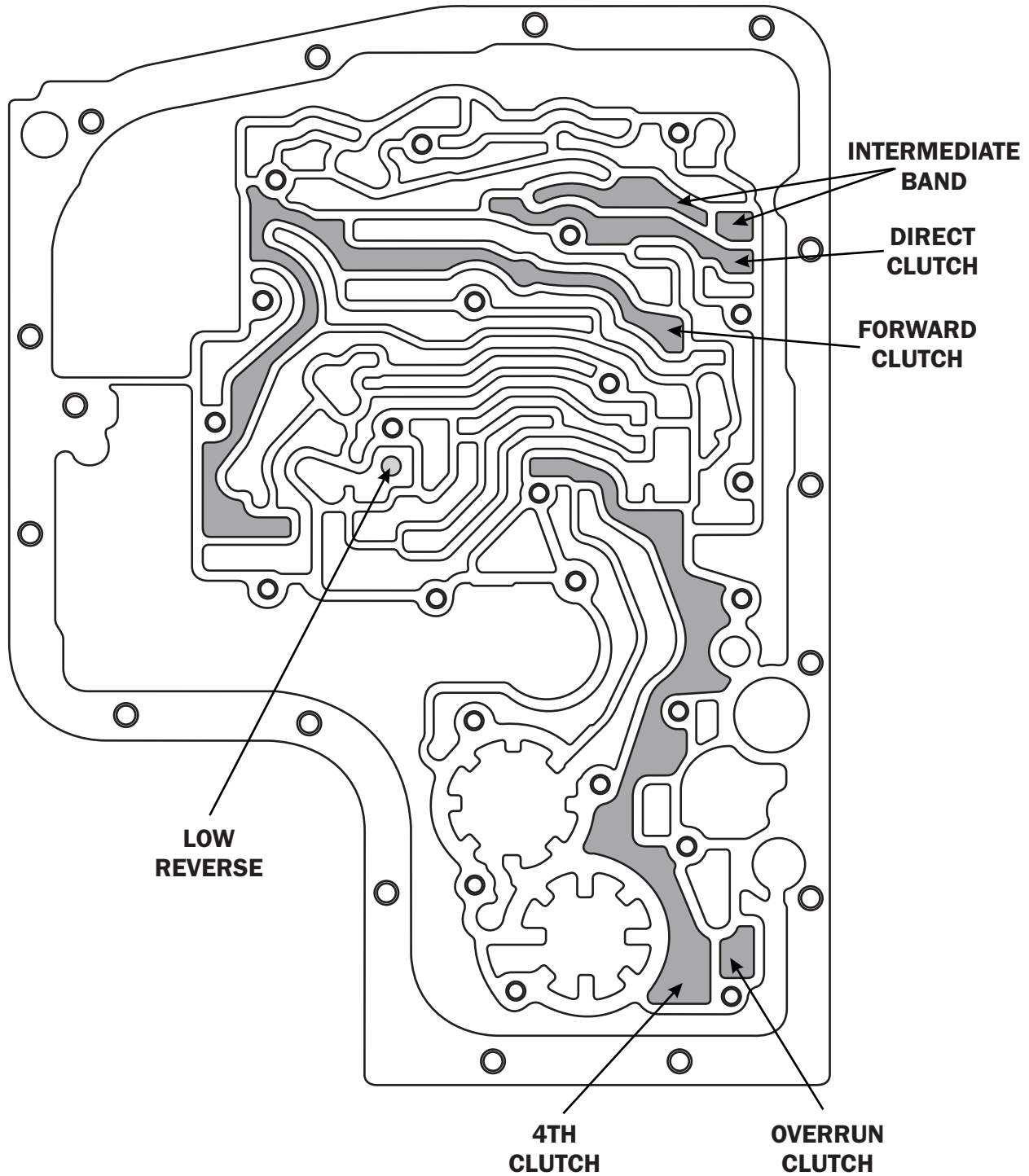
Copyright © 2011 ATSG

GM 325



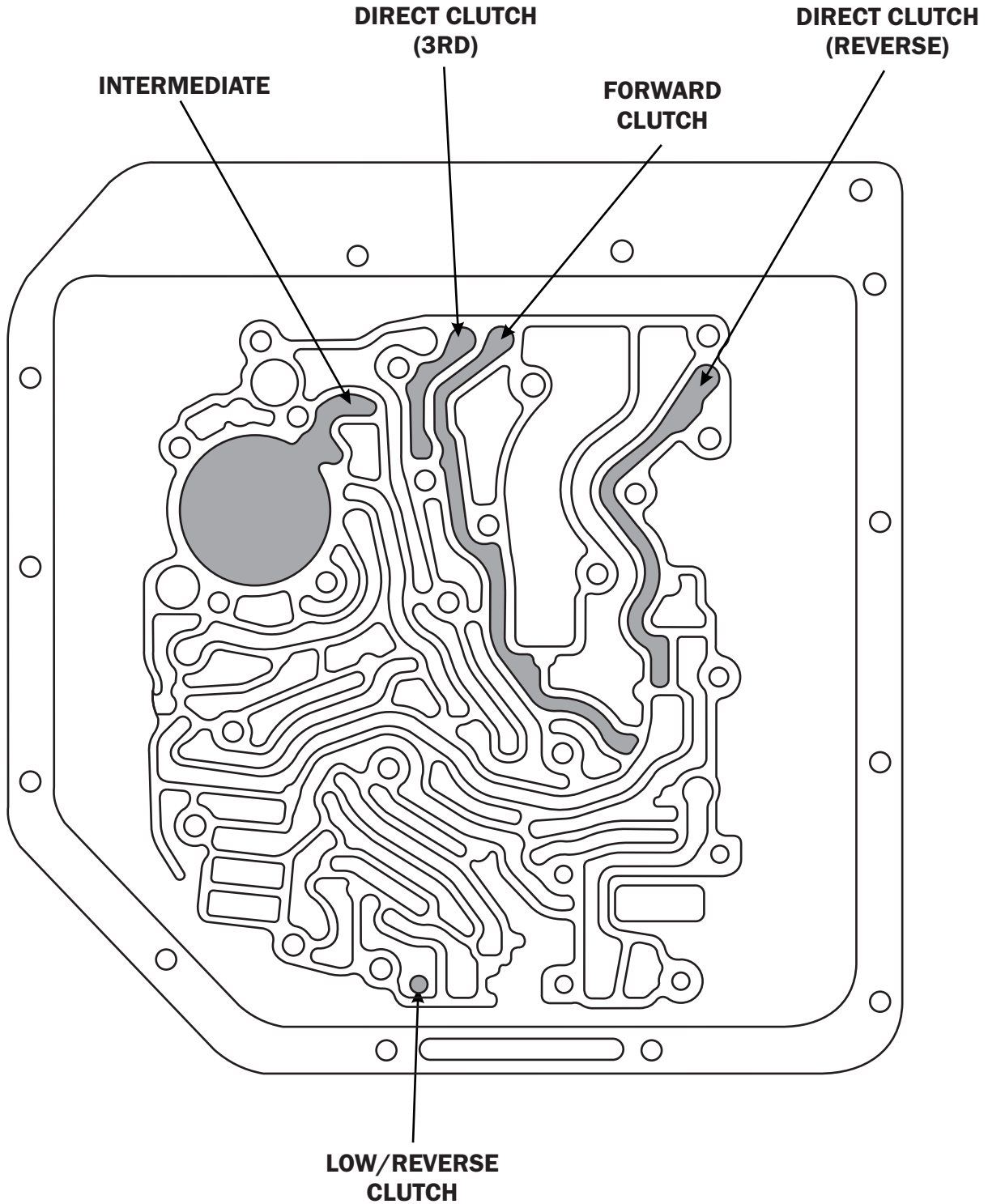
Copyright © 2011 ATSG

GM 325-4L



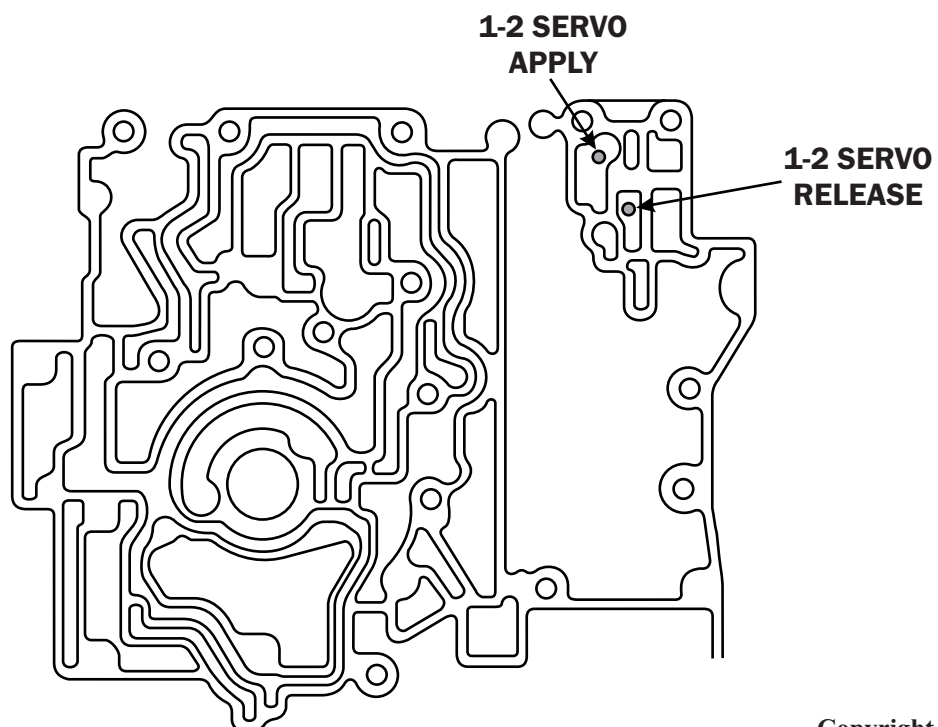
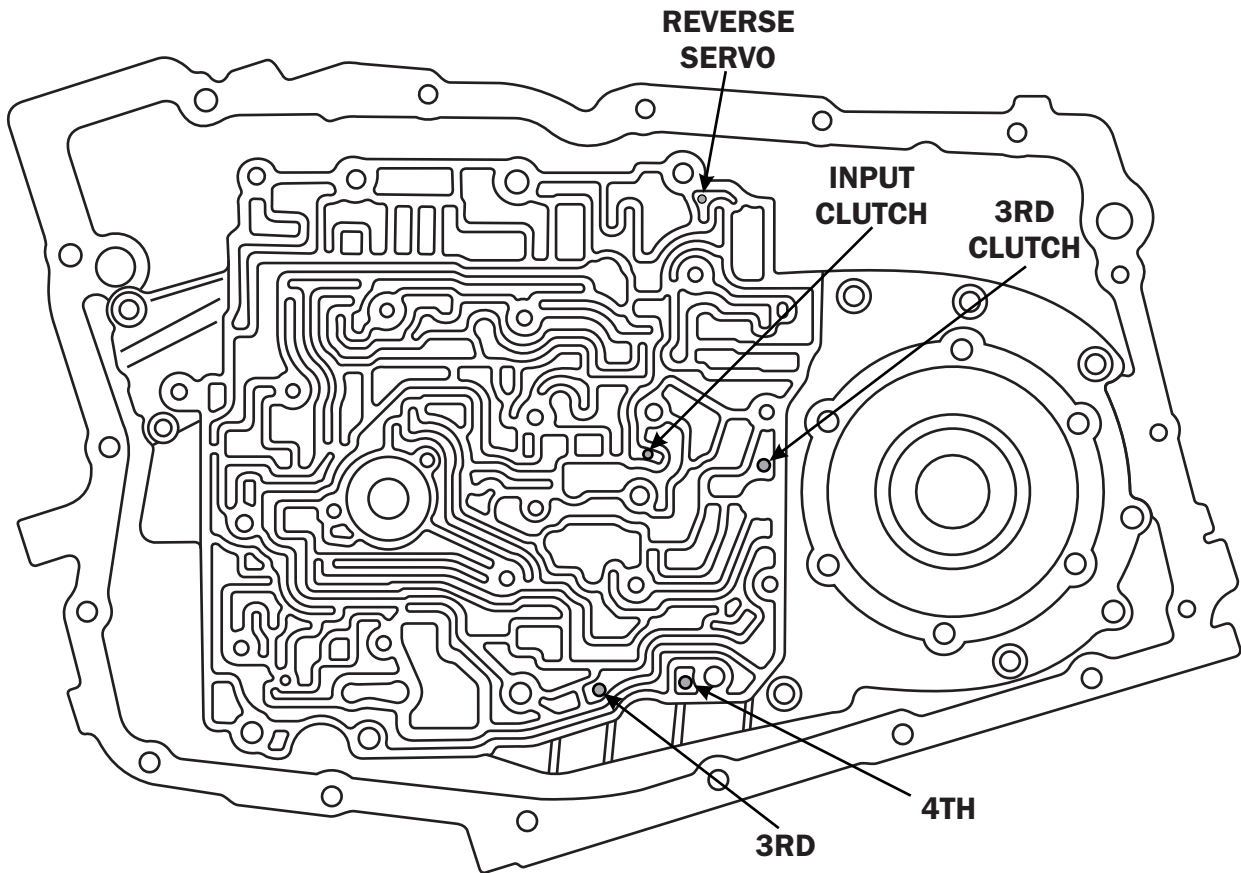
Copyright © 2011 ATSG

GM 350C



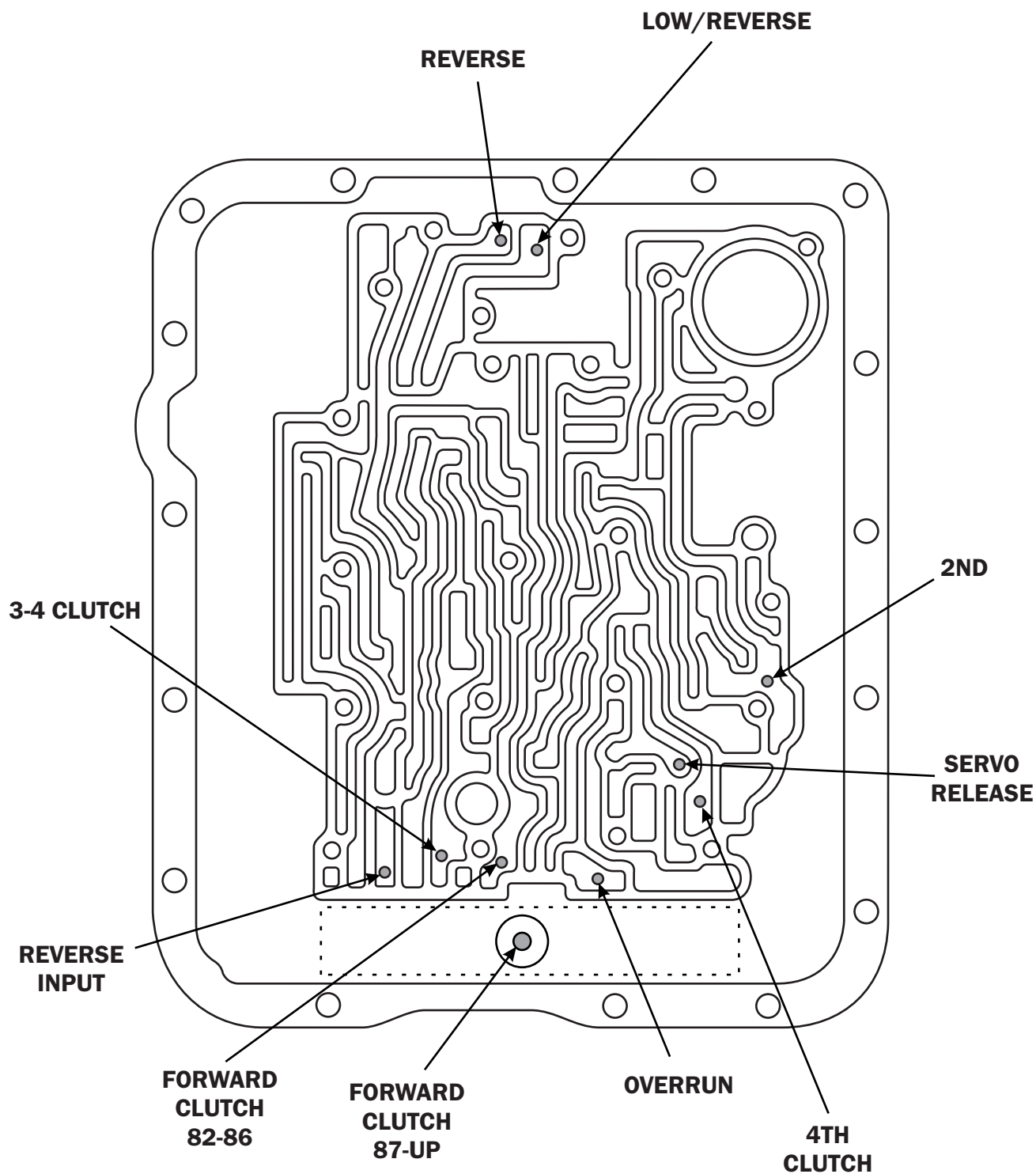
Copyright © 2011 ATSG

GM 440-T4 / 4T60



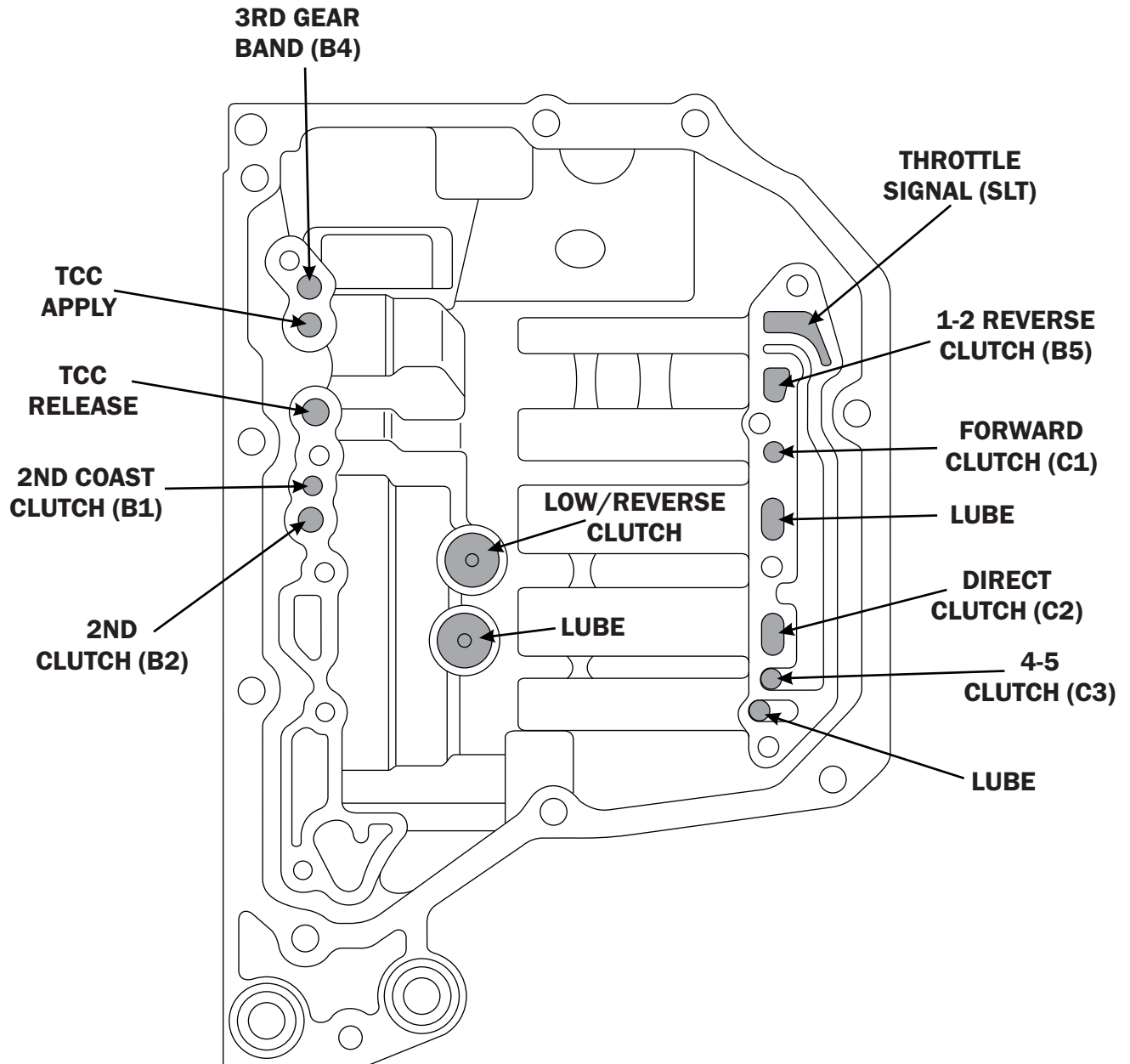
Copyright © 2011 ATSG

GM 700-R4 / 4L60



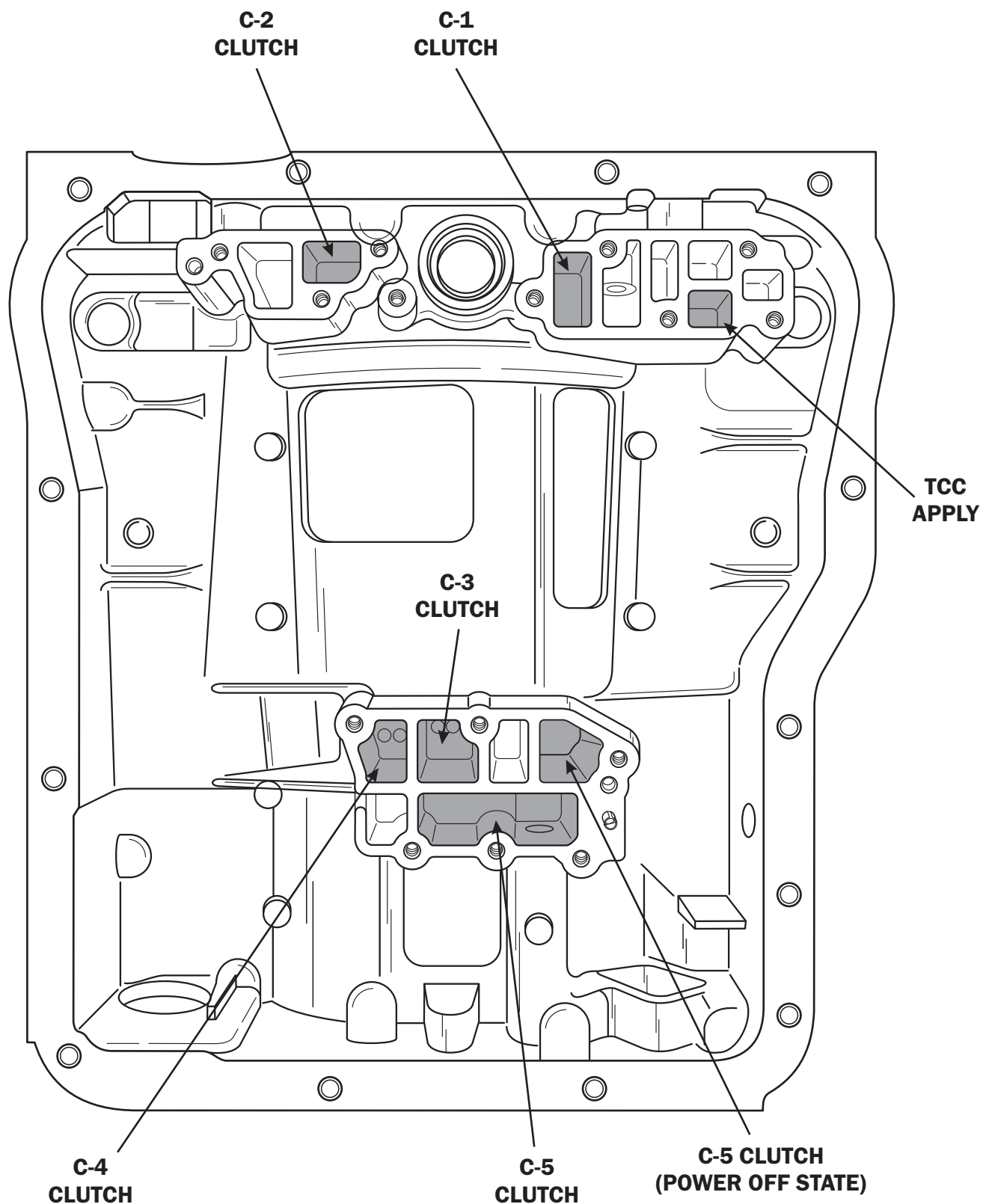
Copyright © 2011 ATSG

AF-33-5 / AW55-50



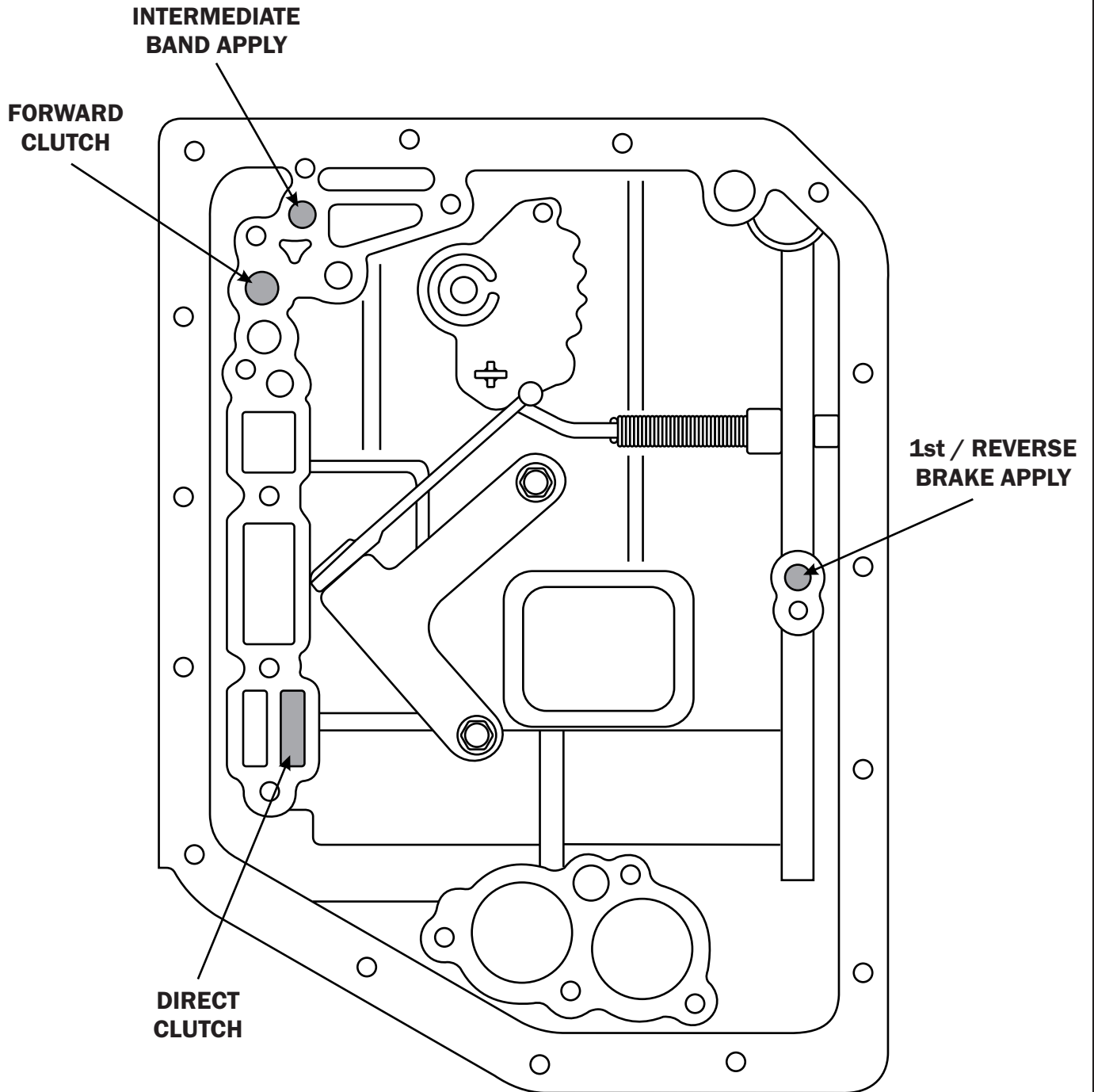
Copyright © 2011 ATSG

ALLISON 1000/2000



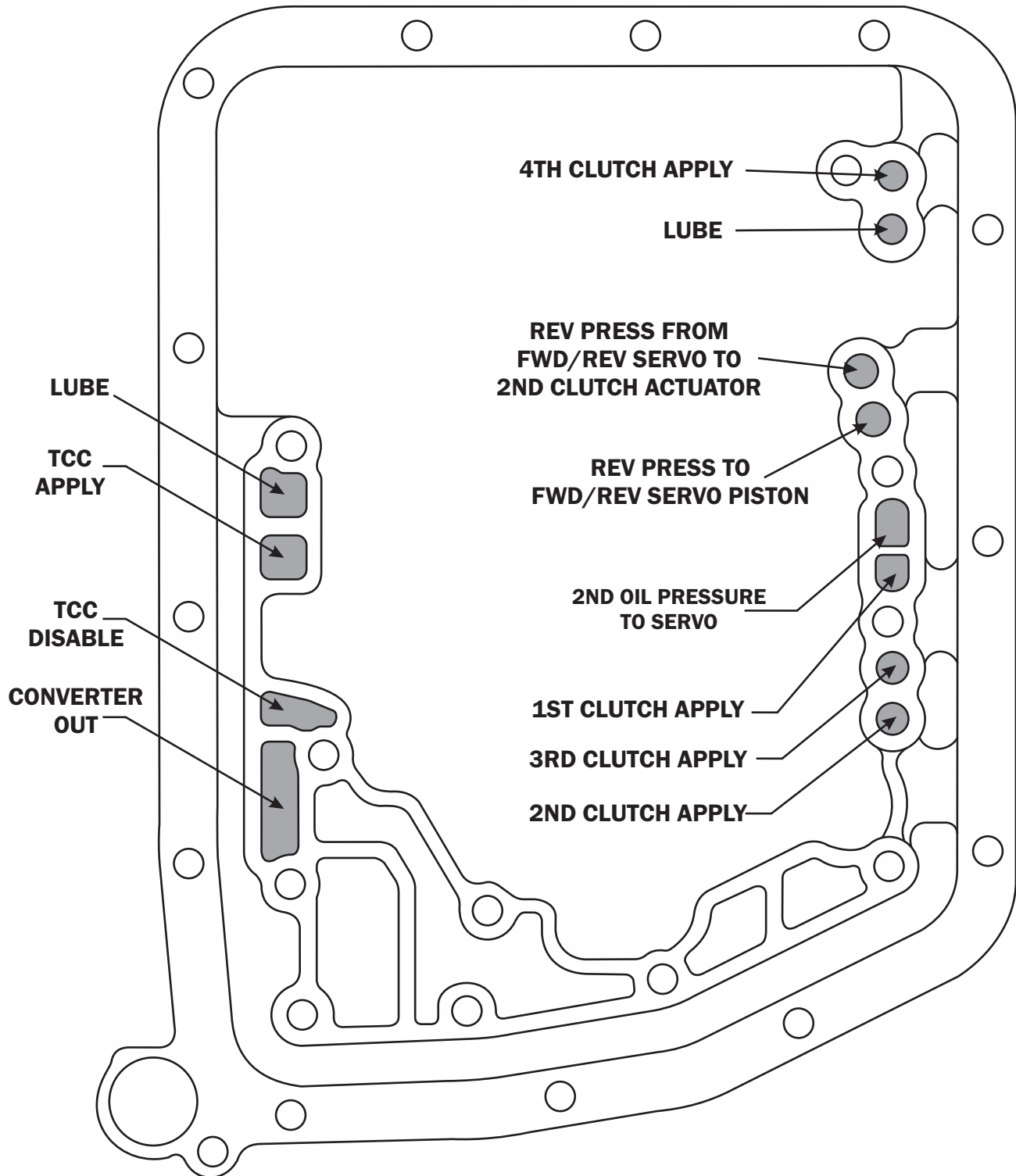
Copyright © 2011 ATSG

MX-17



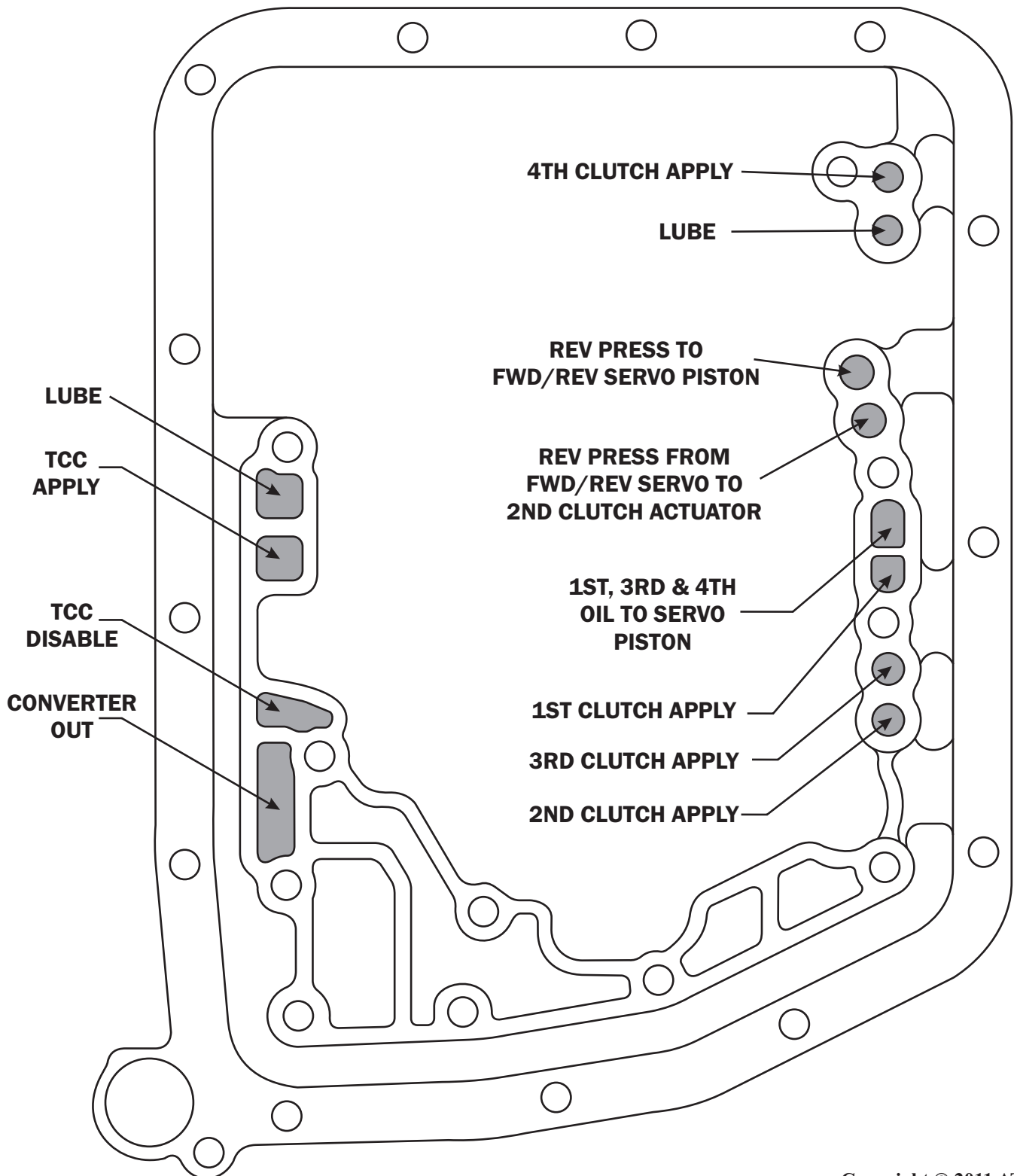
Copyright © 2011 ATSG

SATURN 1ST DESIGN



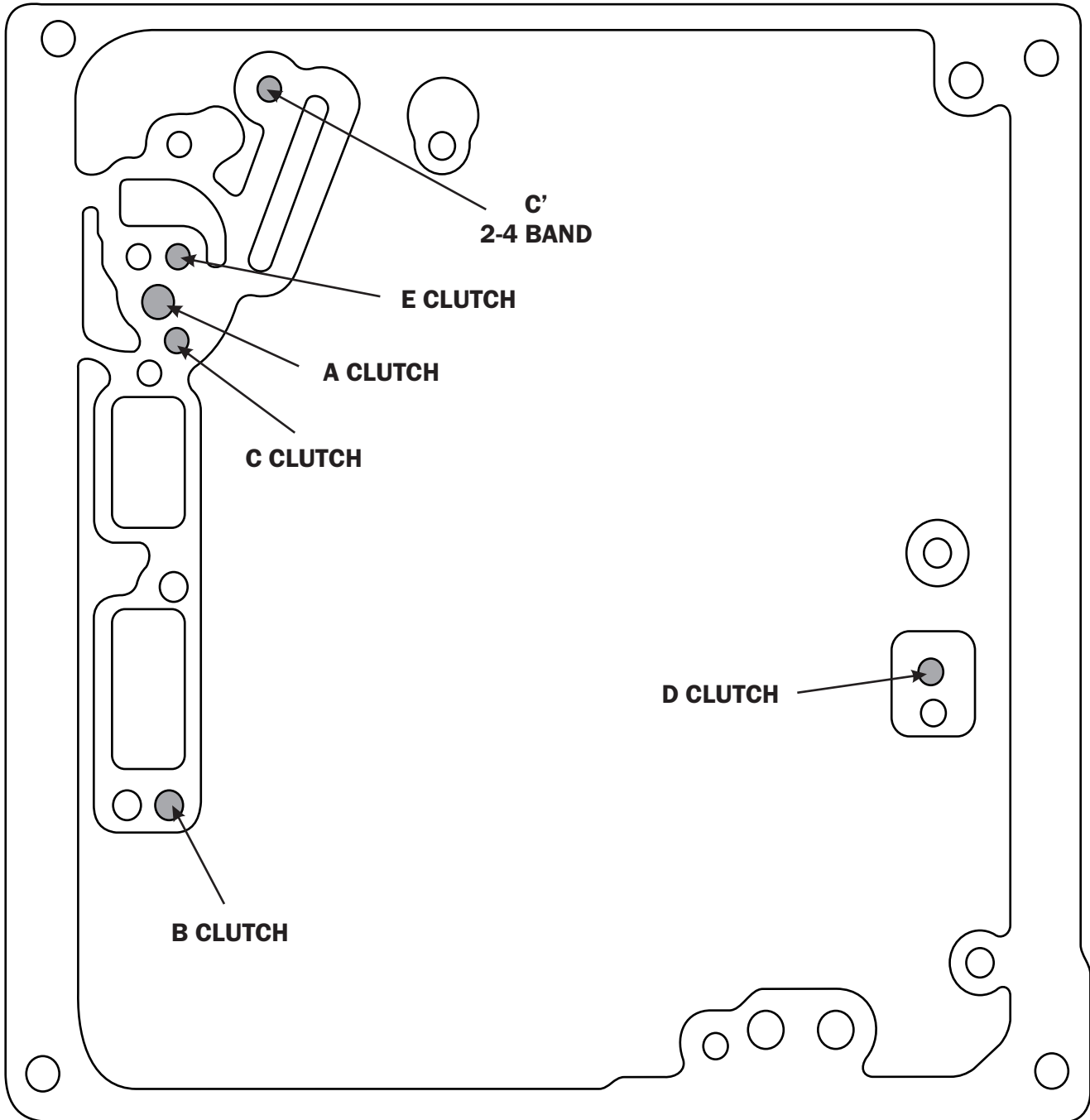
Copyright © 2011 ATSG

SATURN 2ND DESIGN

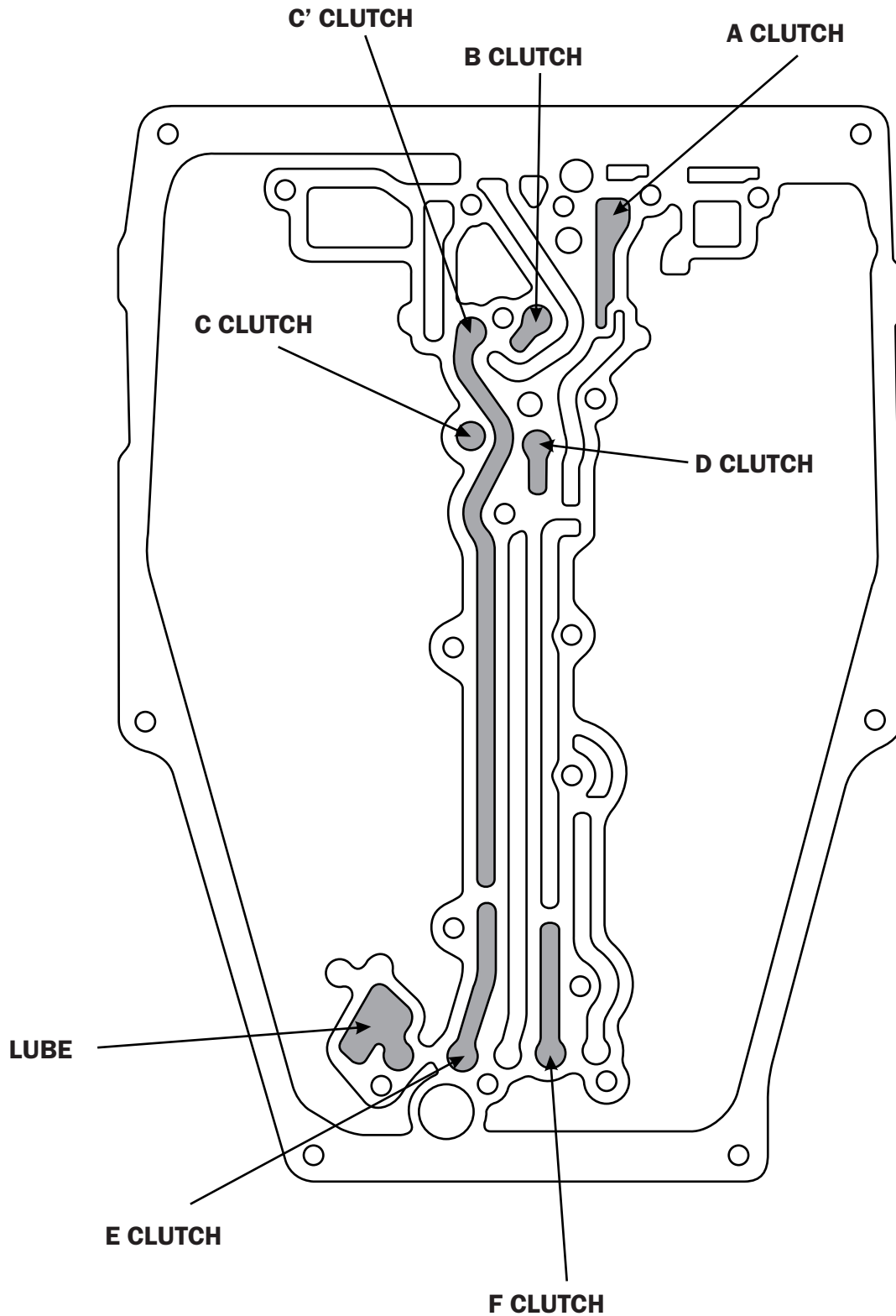


Copyright © 2011 ATSG

4HP18

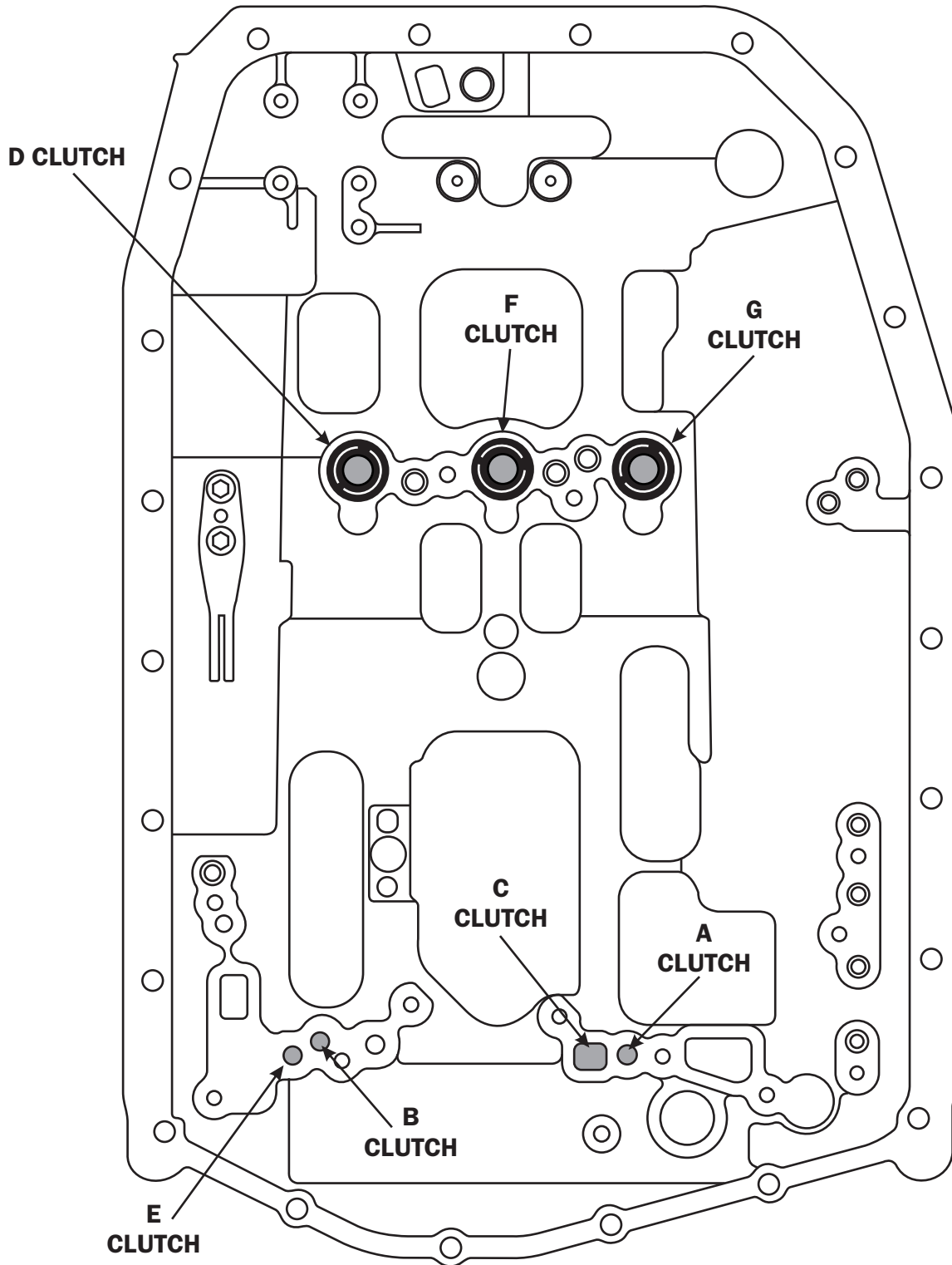


4HP22 / 4HP24



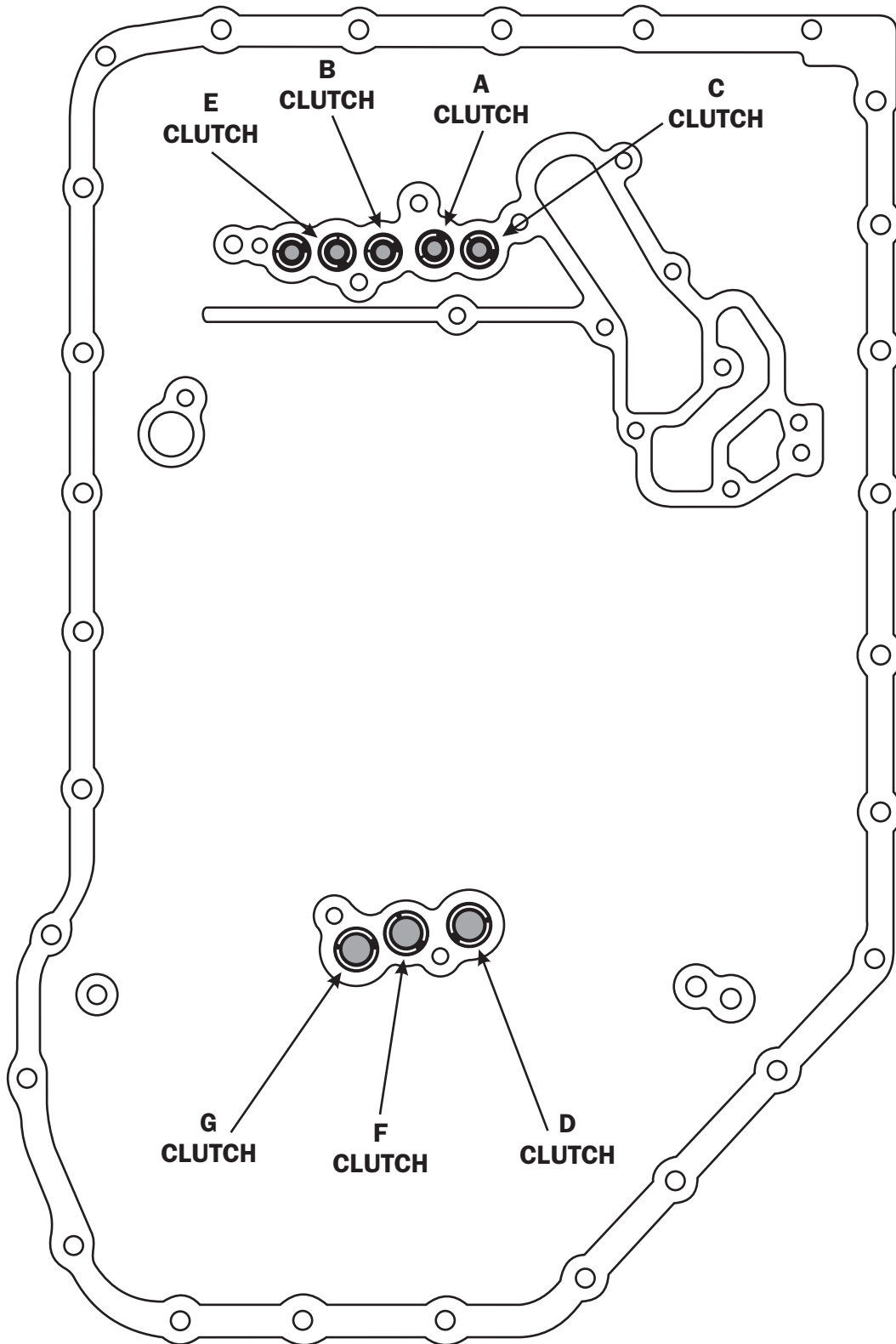
Copyright © 2011 ATSG

5HP19



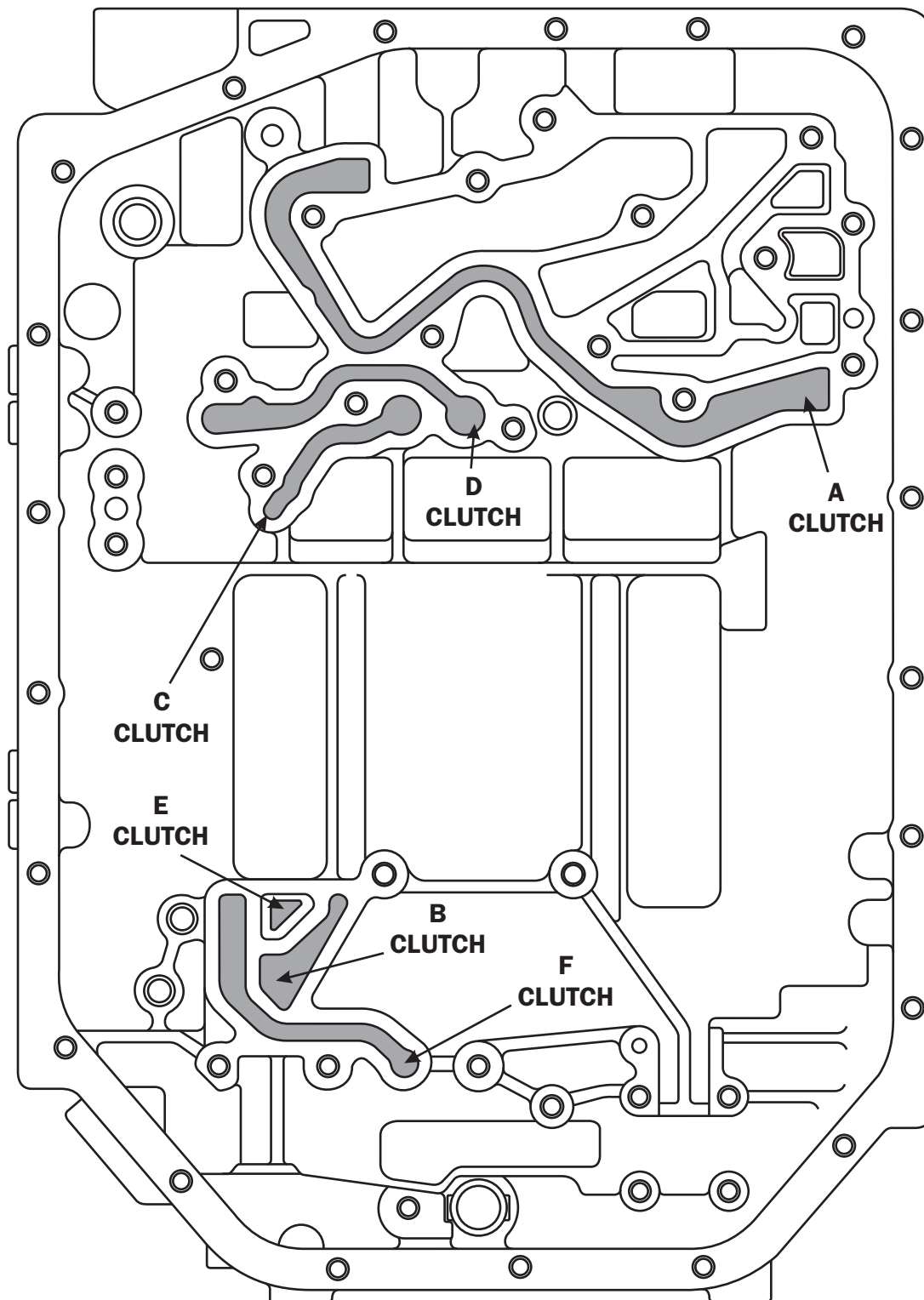
Copyright © 2011 ATSG

5HP19FL



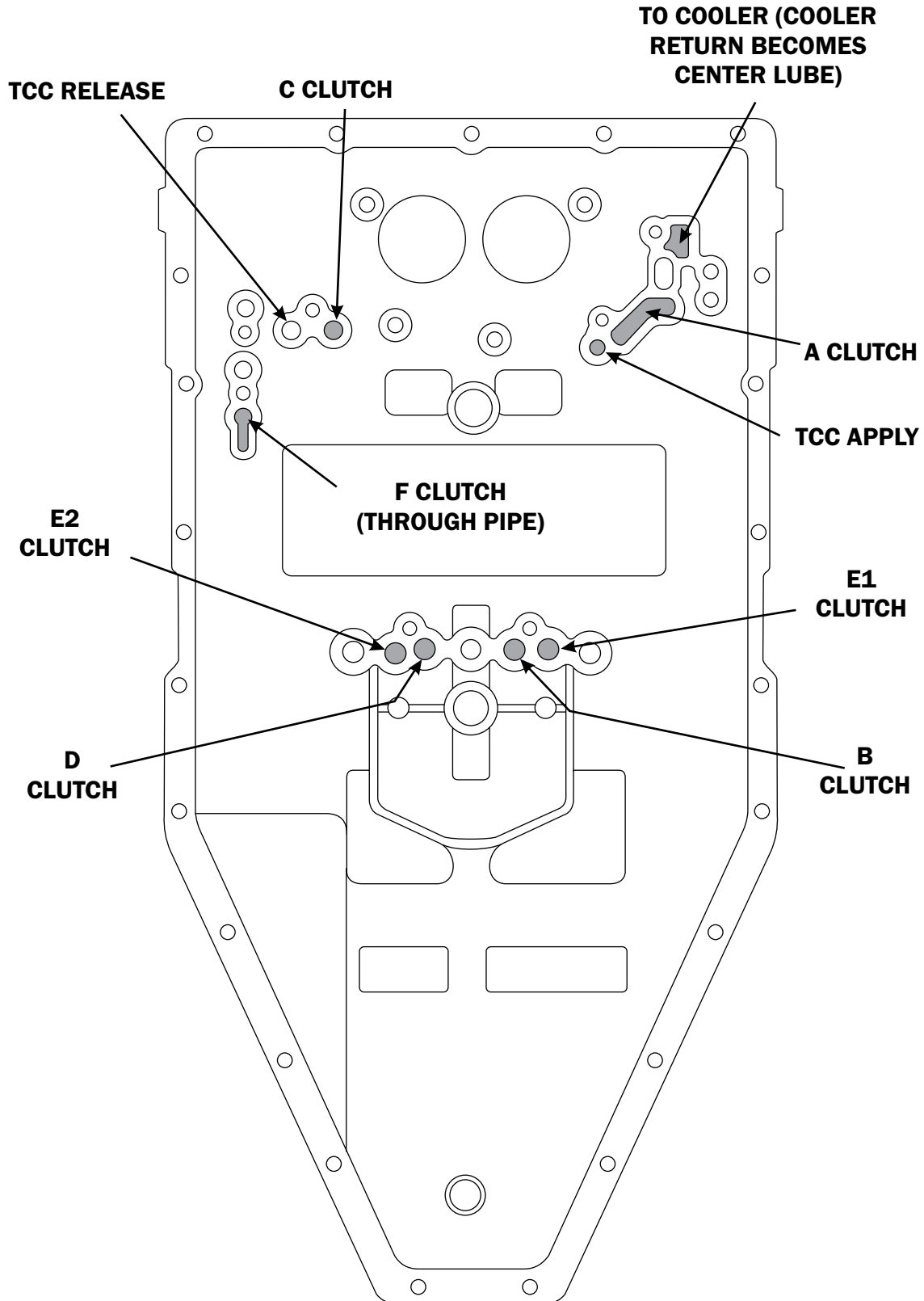
Copyright © 2011 ATSG

5HP24



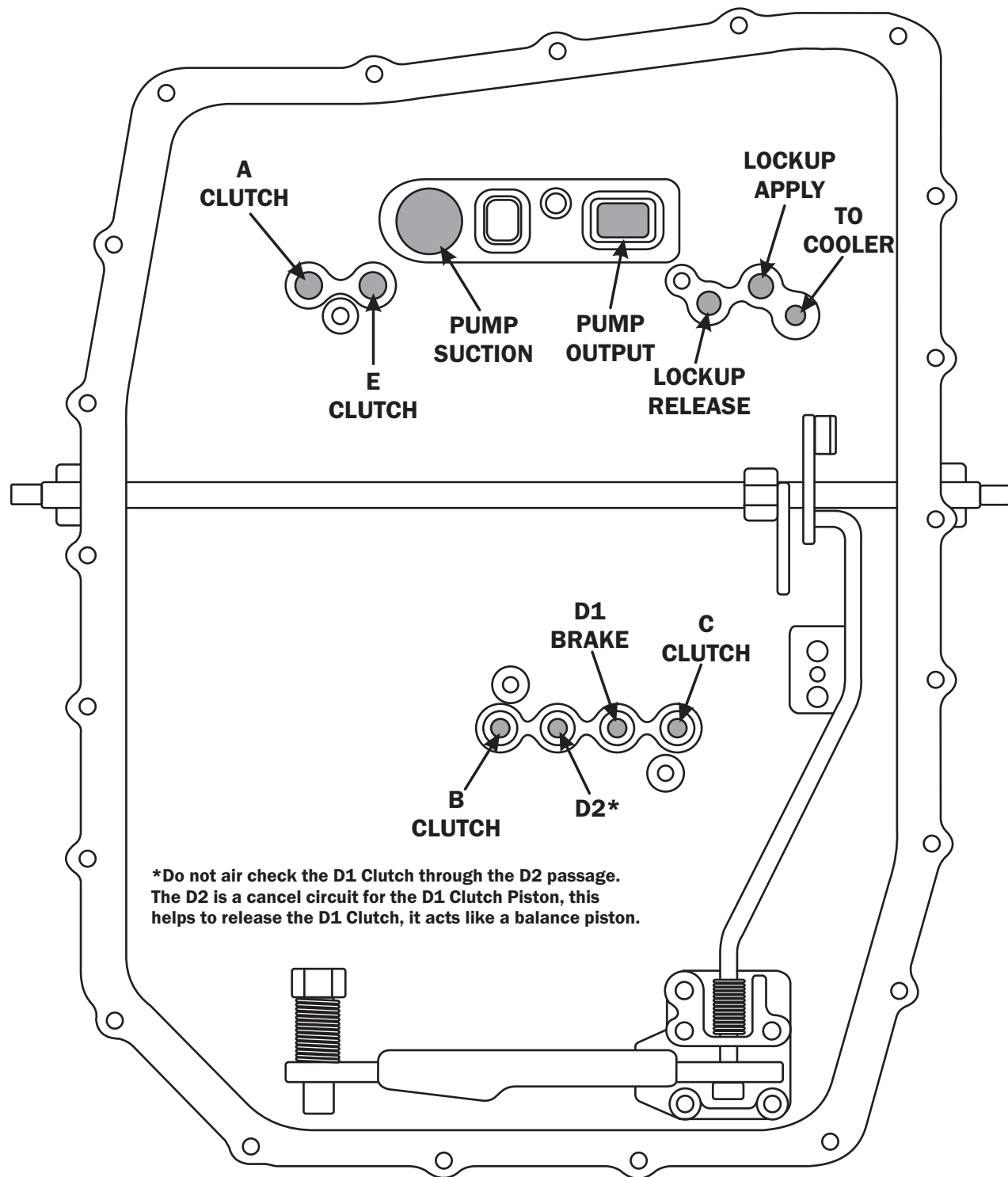
Copyright © 2011 ATSG

5HP30



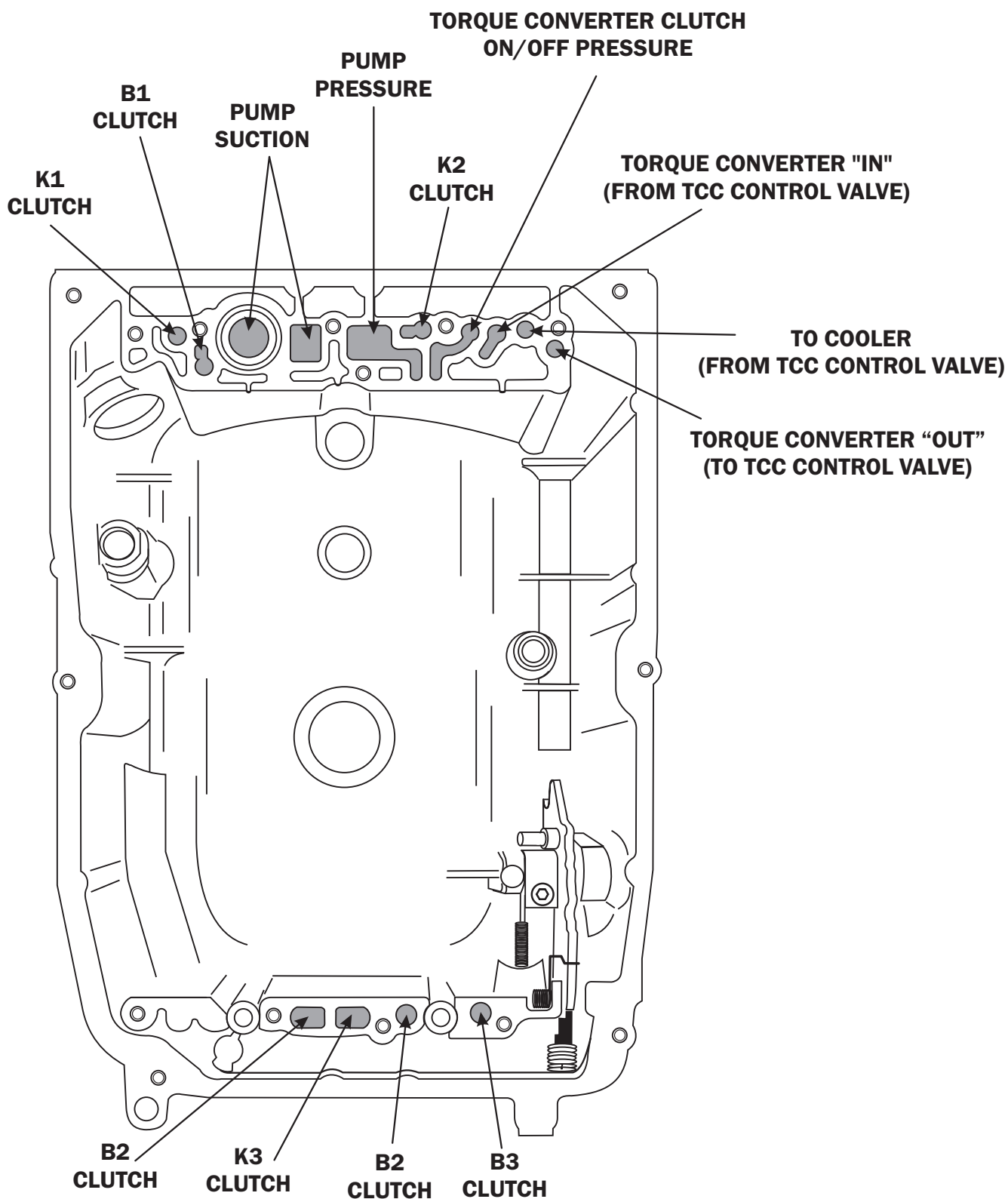
Copyright © 2011 ATSG

6HP26



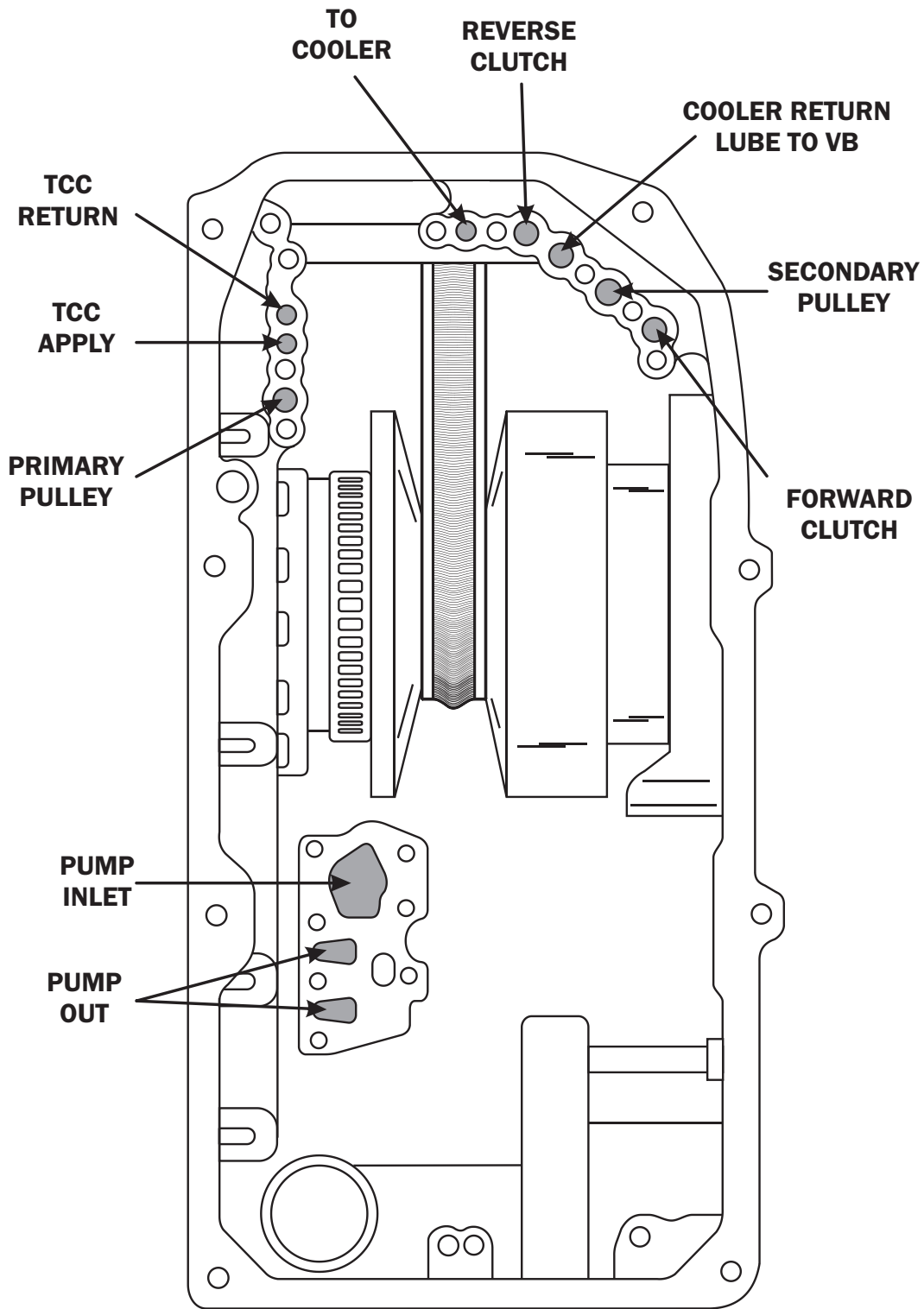
Copyright © 2011 ATSG

722.6



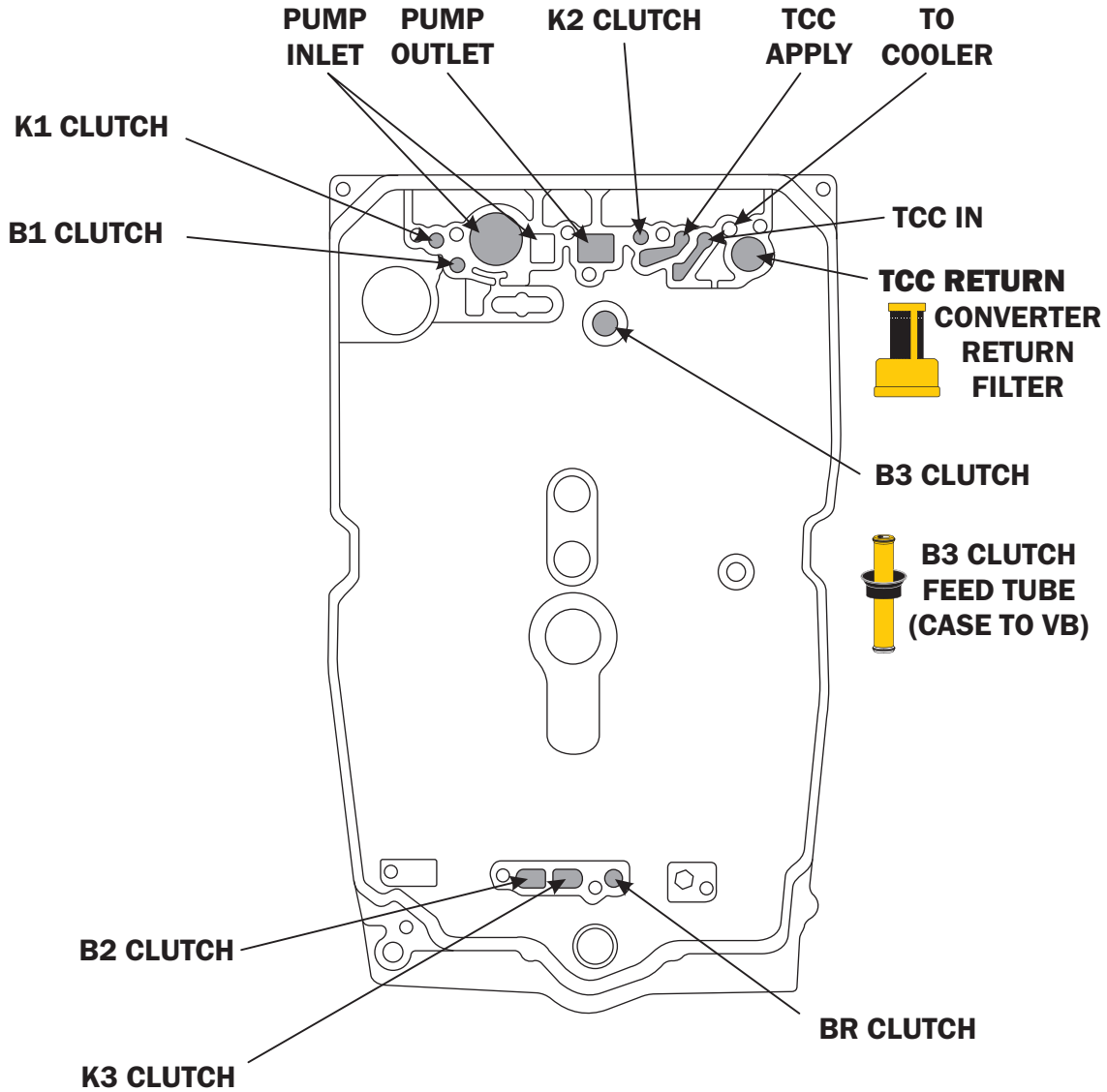
Copyright © 2011 ATSG

722.8



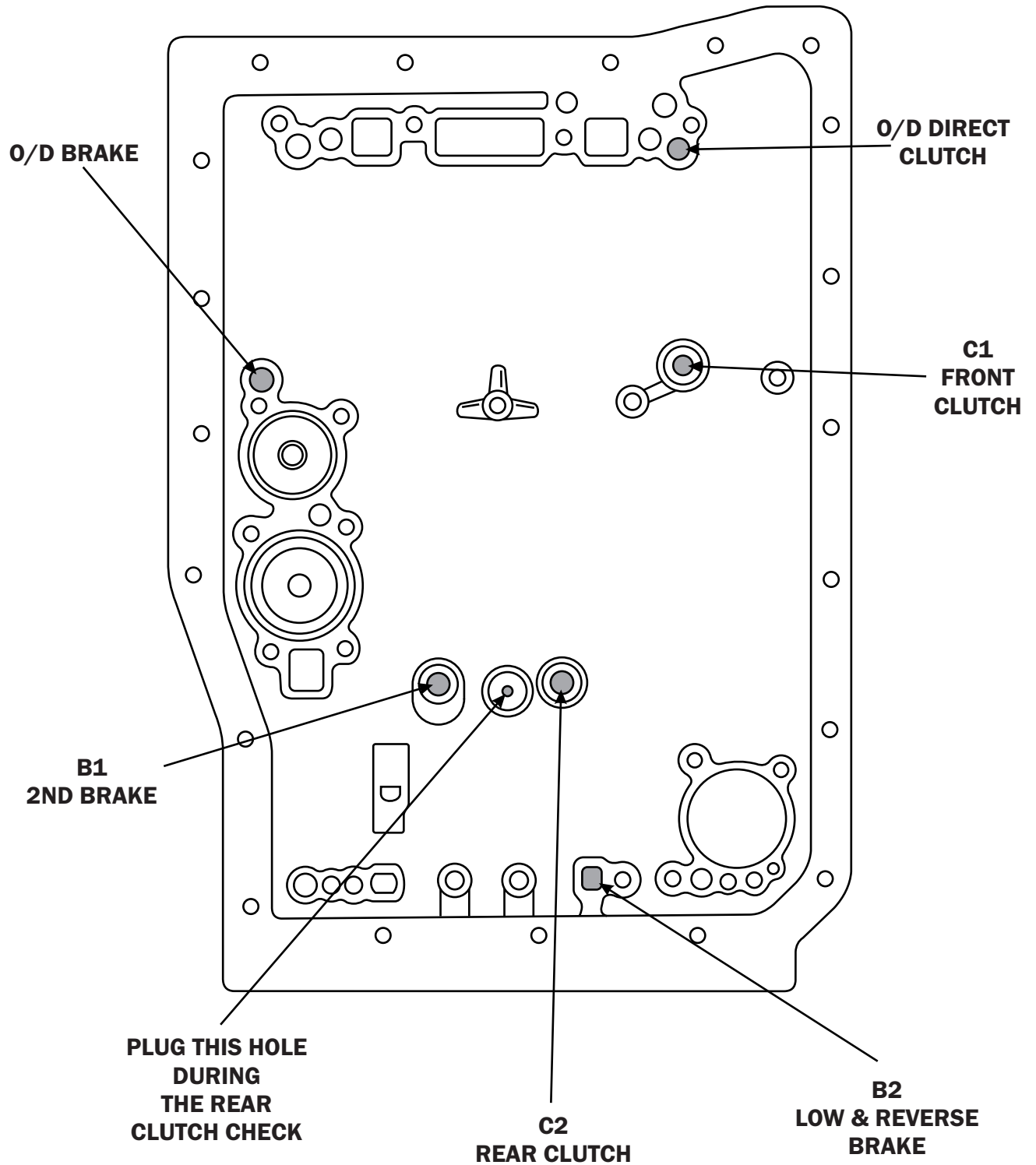
Copyright © 2011 ATSG

722.9



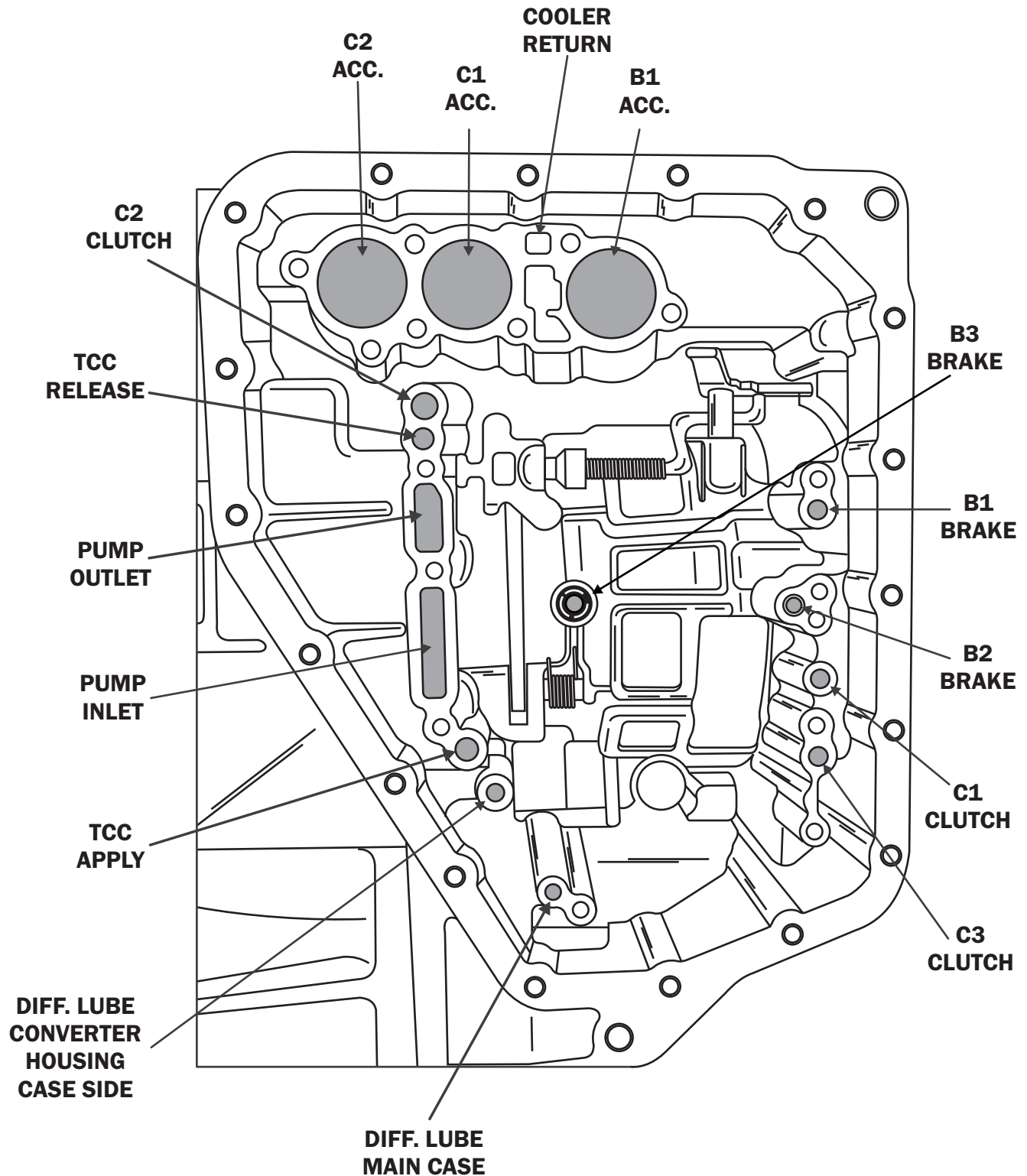
Copyright © 2011 ATSG

AW450-43LE



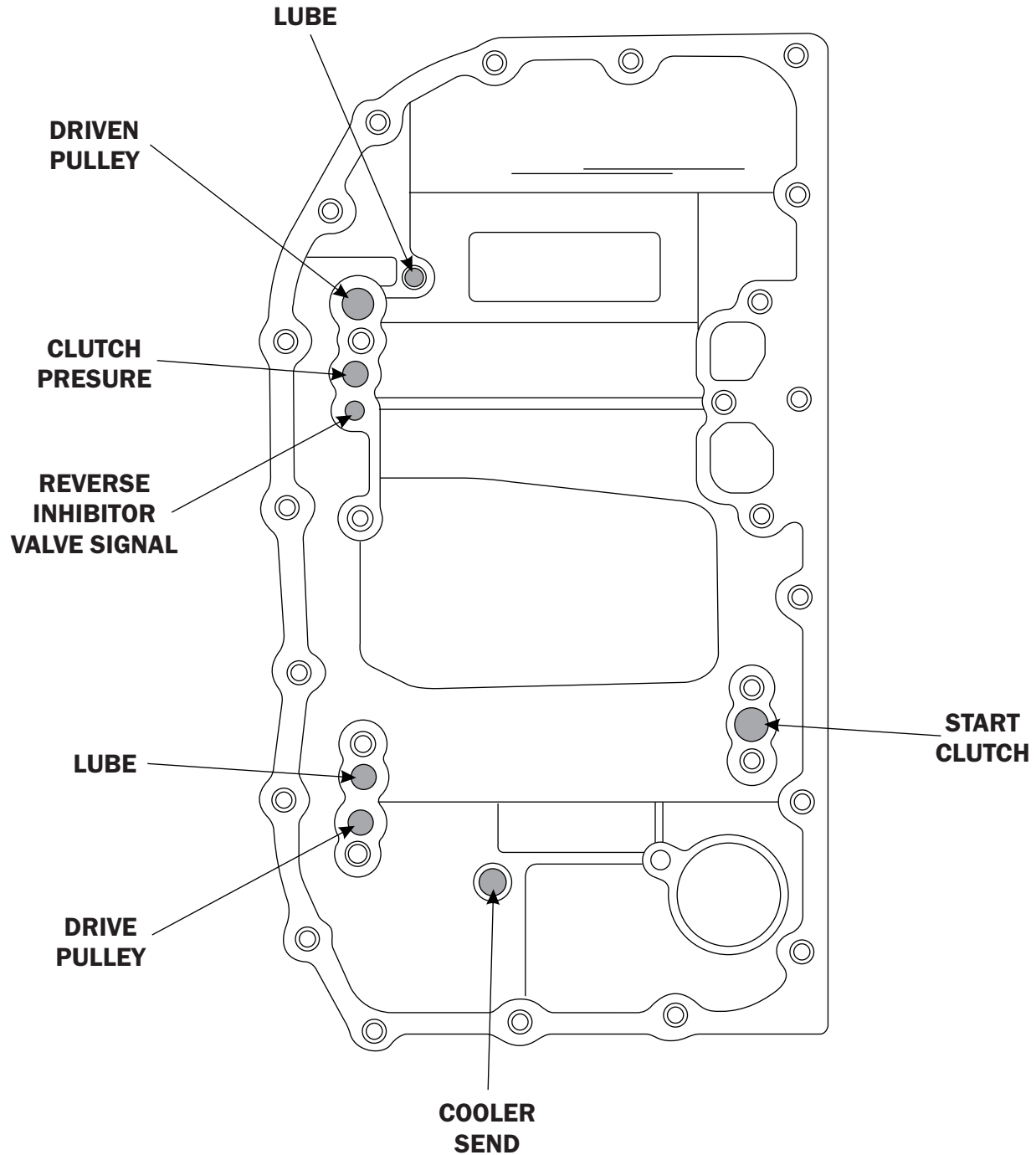
Copyright © 2011 ATSG

AW81-40LE



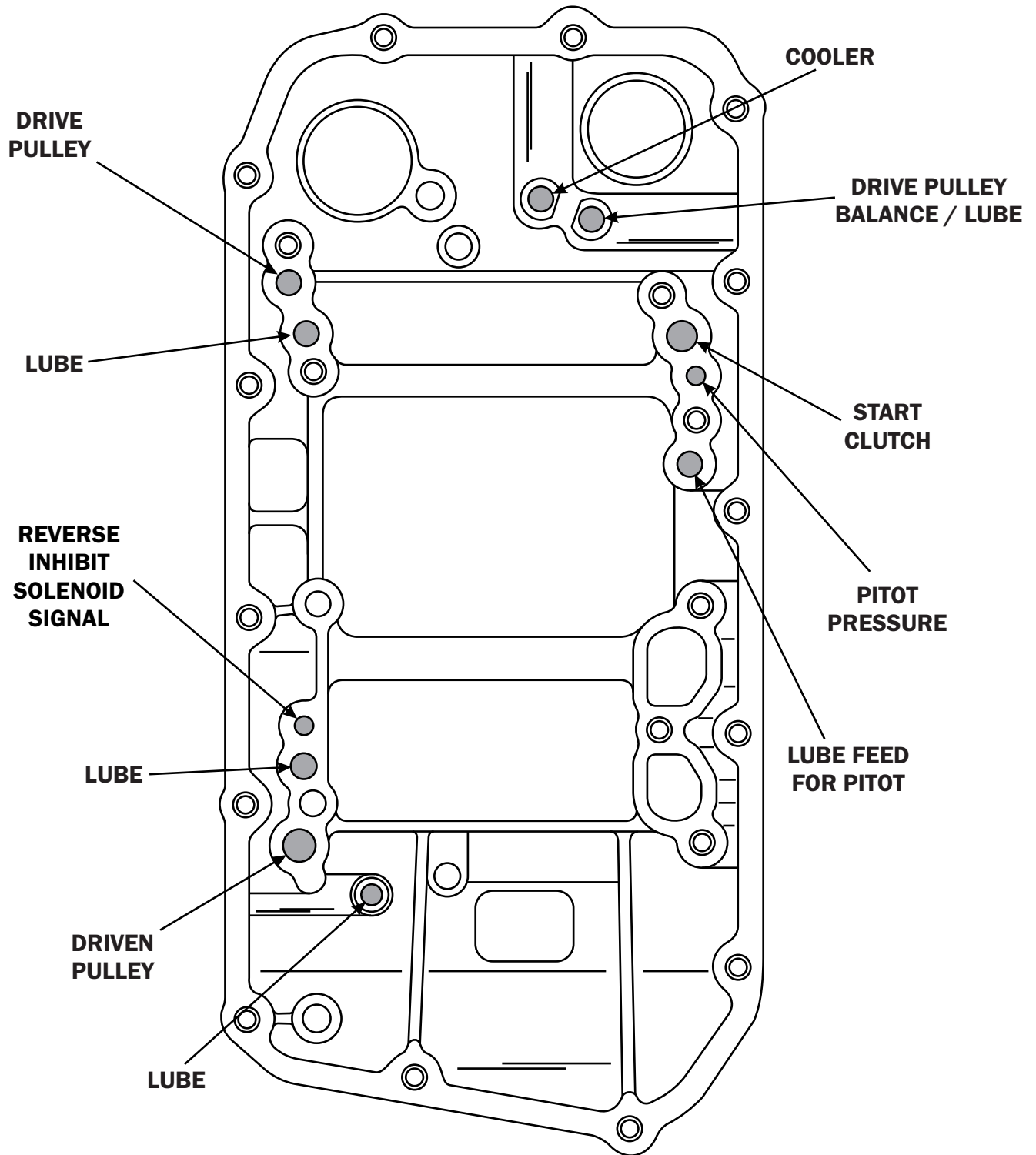
Copyright © 2011 ATSG

HONDA HYBRID SZCA



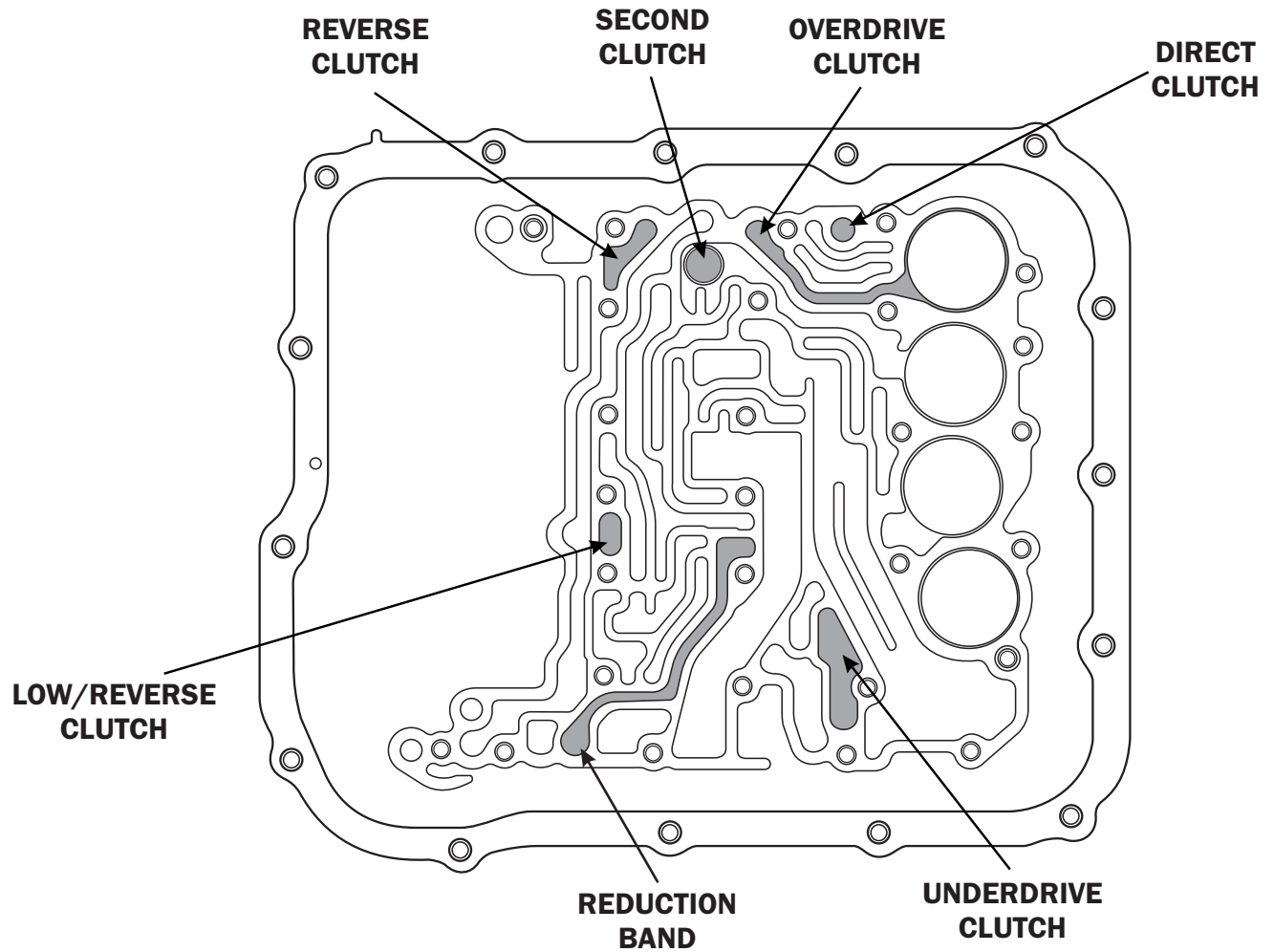
Copyright © 2011 ATSG

HONDA M4VA



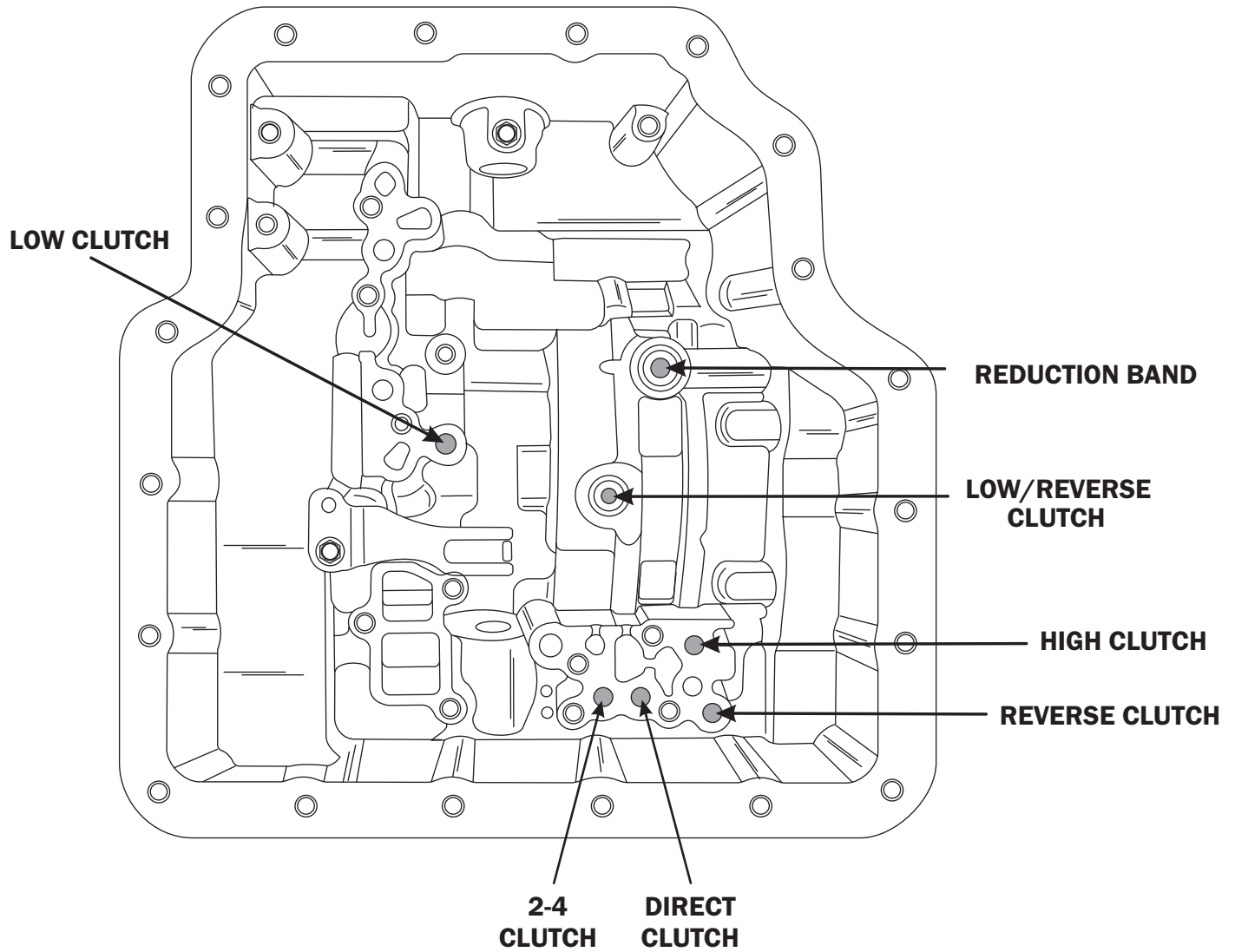
Copyright © 2011 ATSG

HYUNDAI A5HF1 / F5A5A

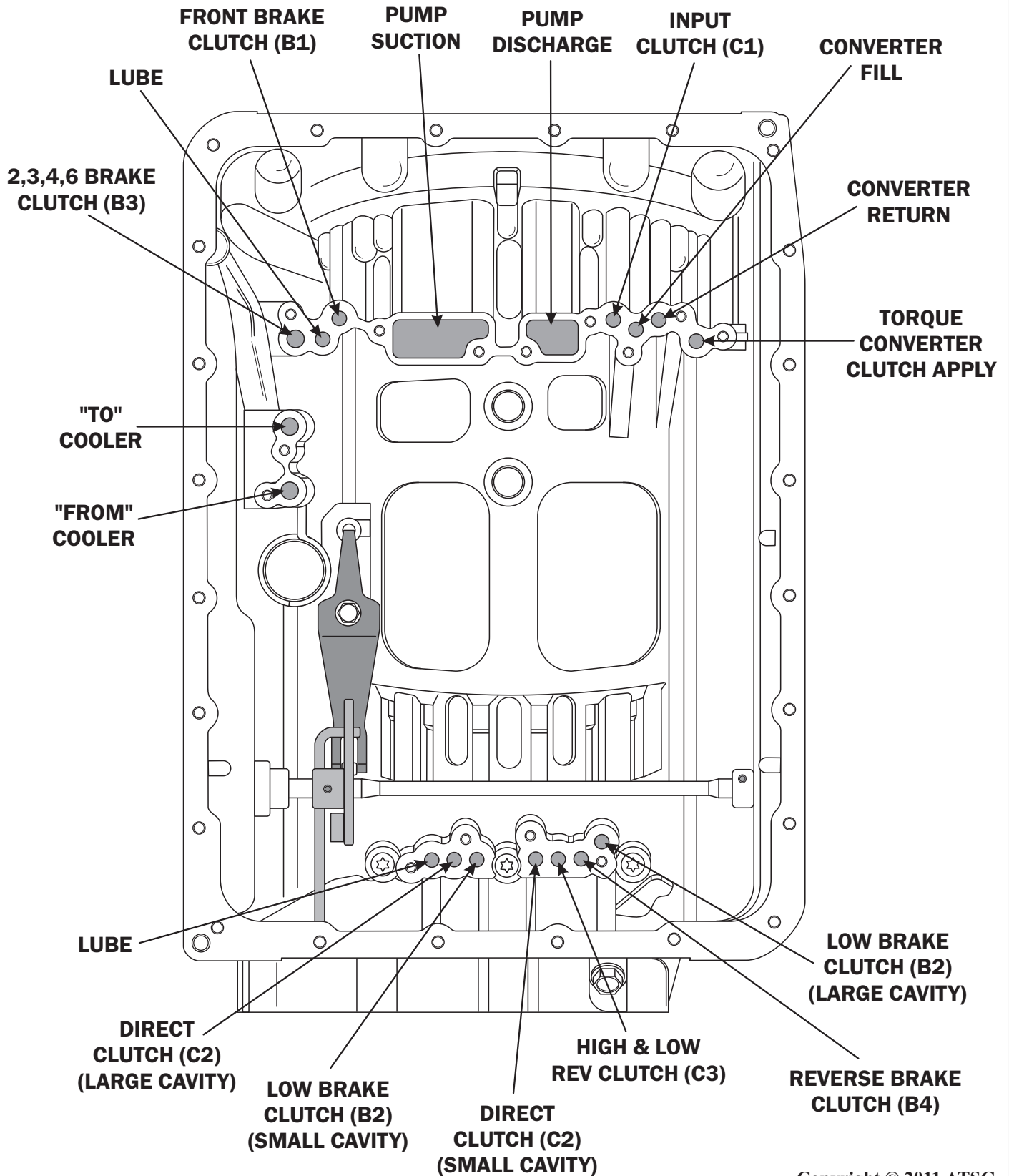


Copyright © 2011 ATSG

JF506E

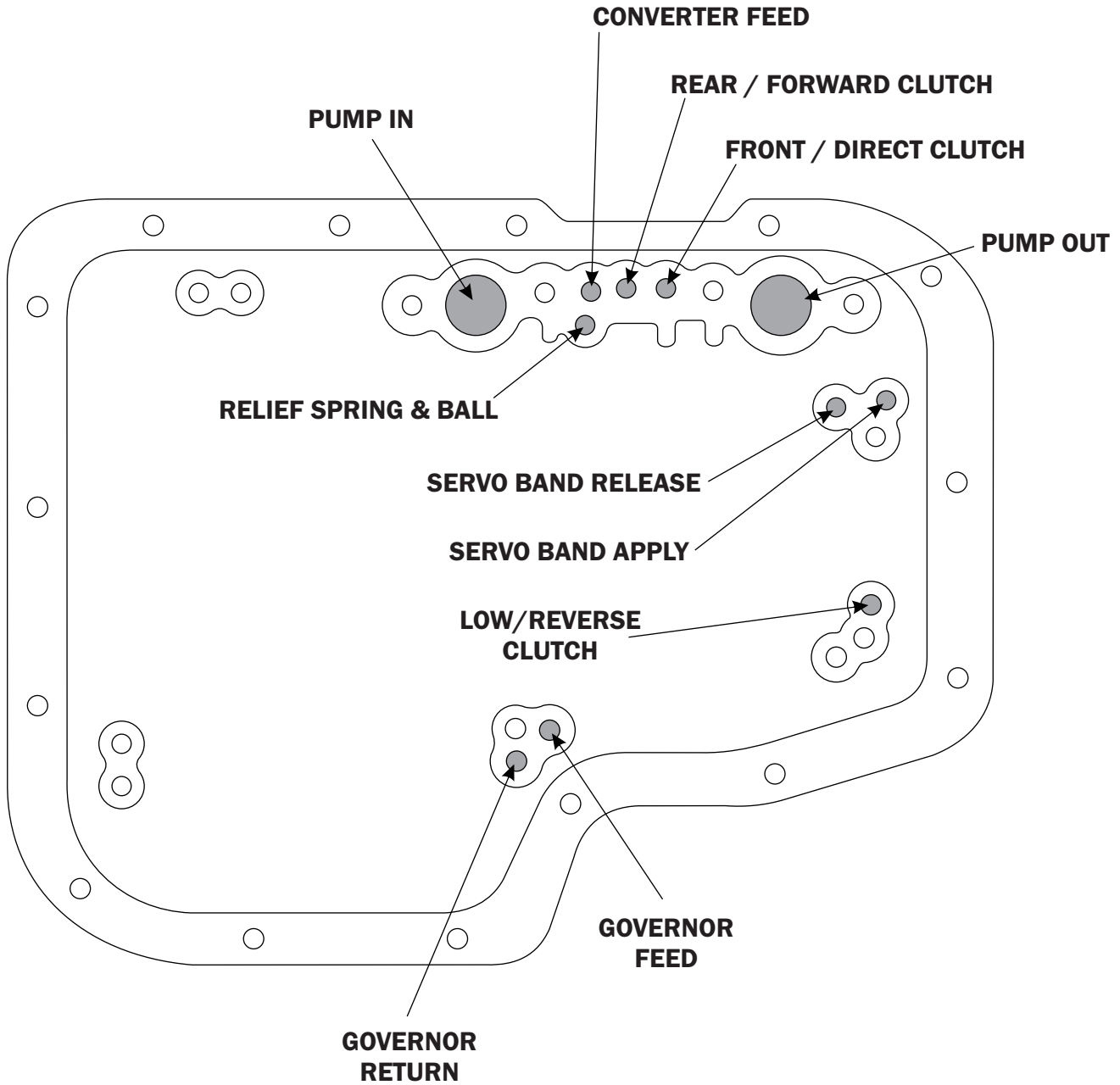


JR710E

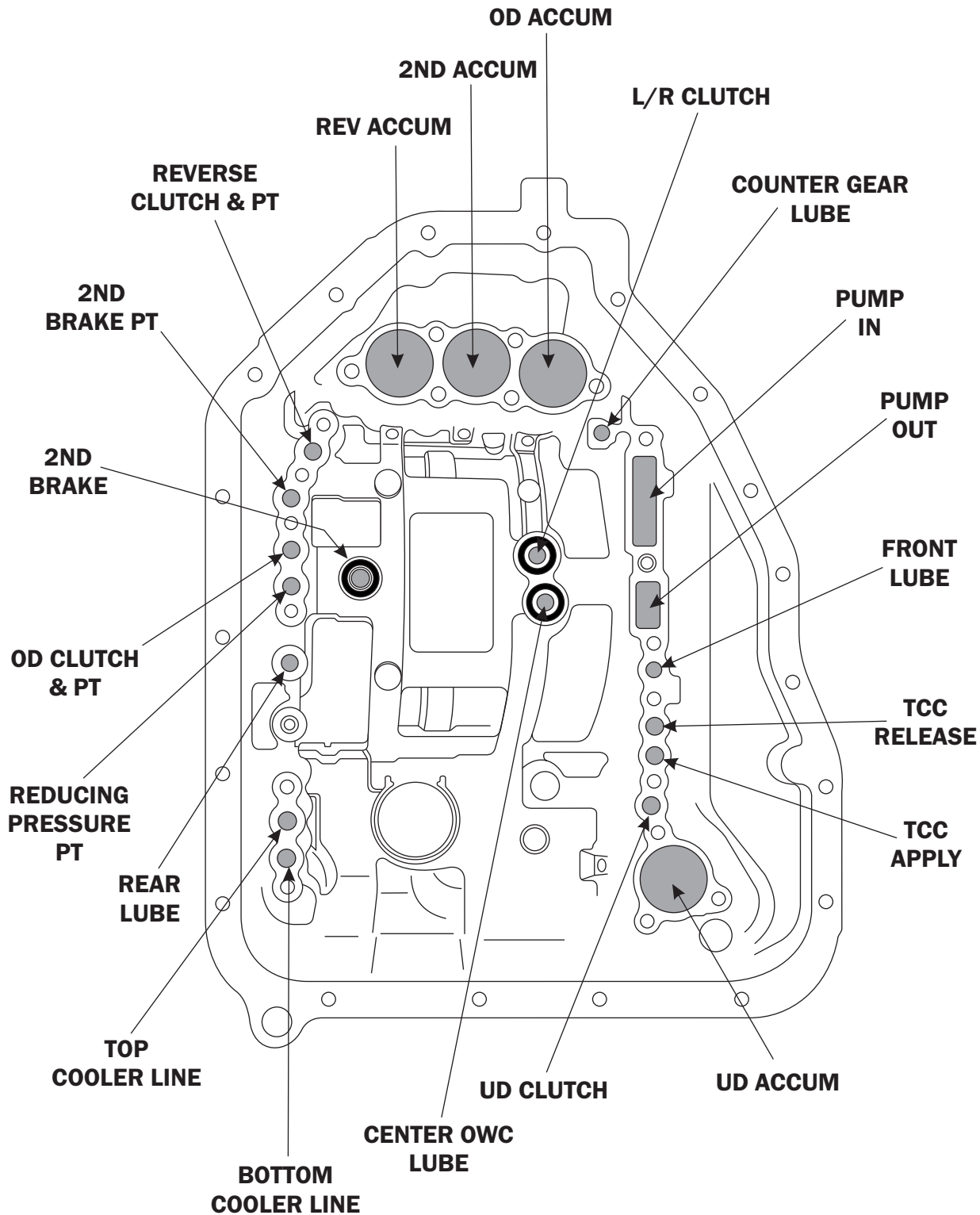


Copyright © 2011 ATSG

KF100 / F3A

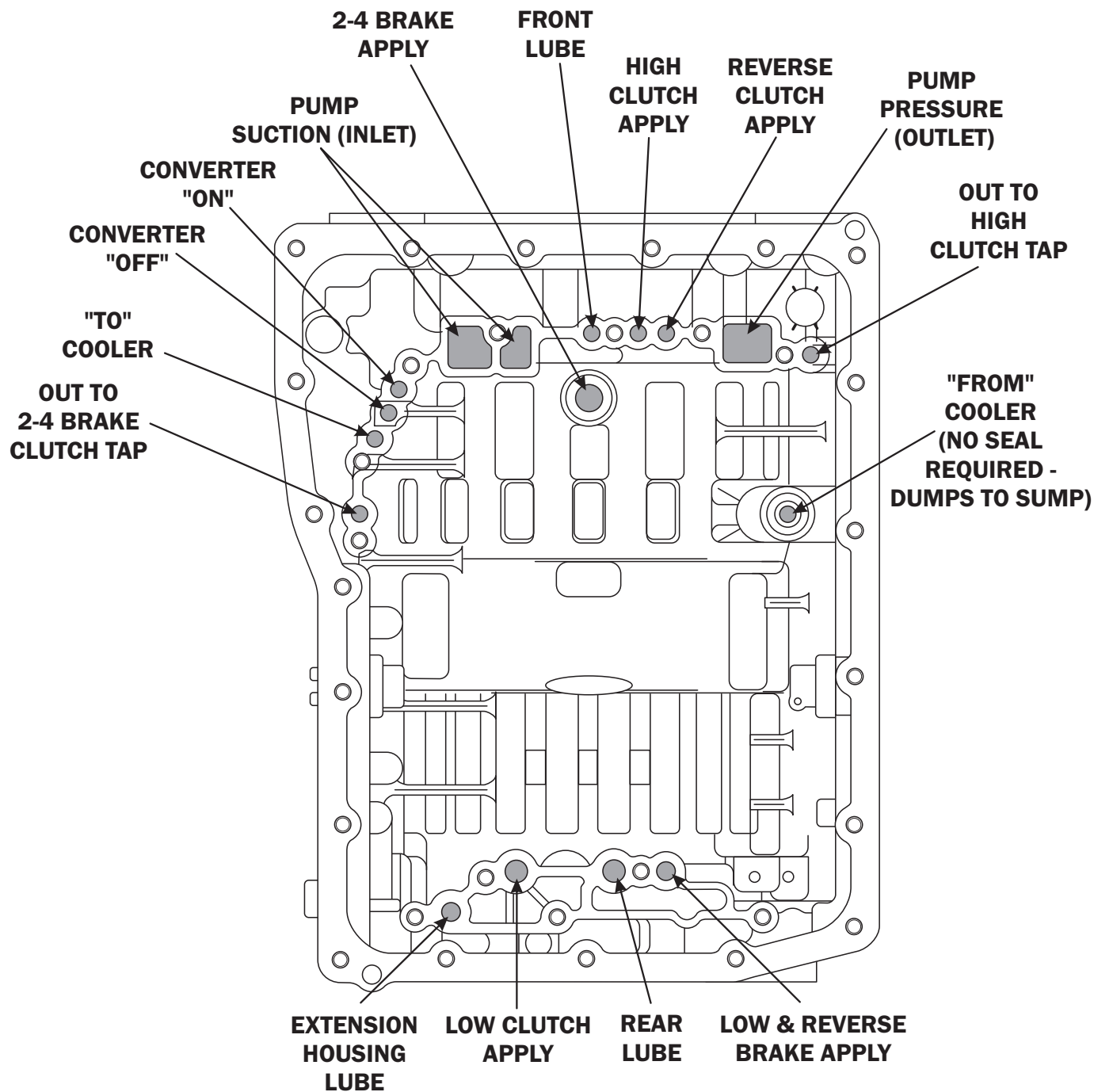


KIA A4CF2



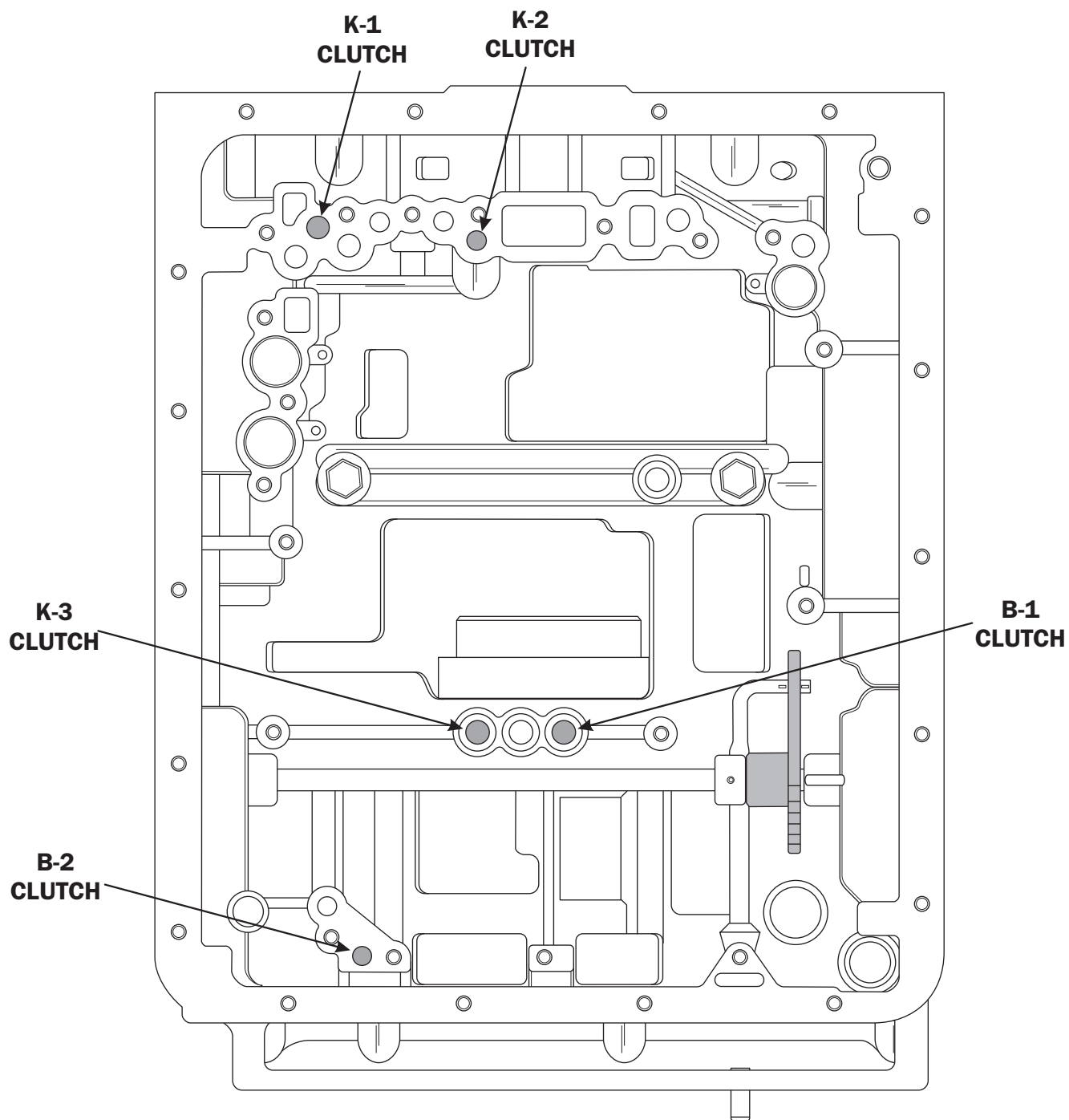
Copyright © 2011 ATSG

MAZDA RC4A-EL / JR405E



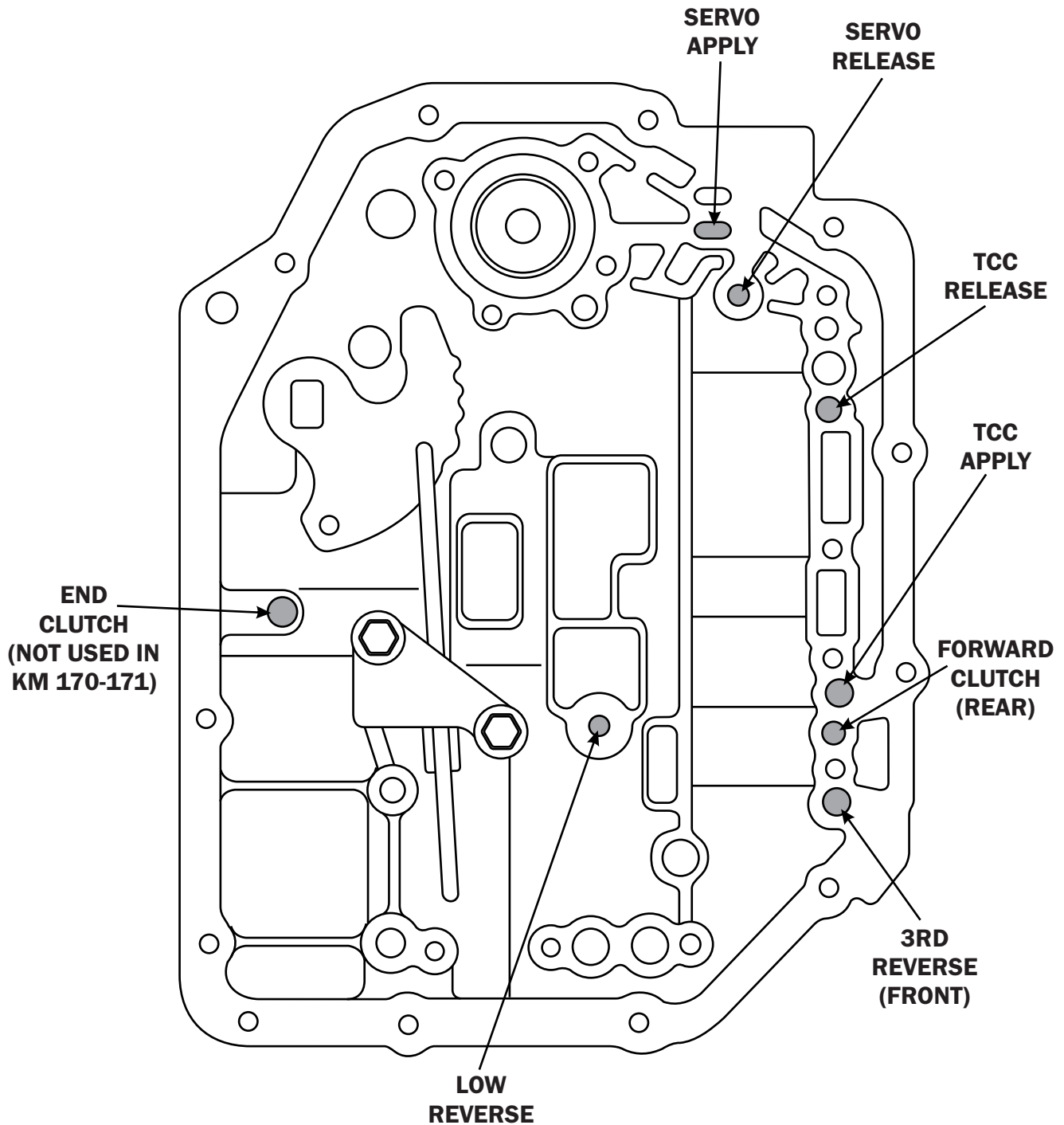
Copyright © 2011 ATSG

MITSUBISHI AS68RC



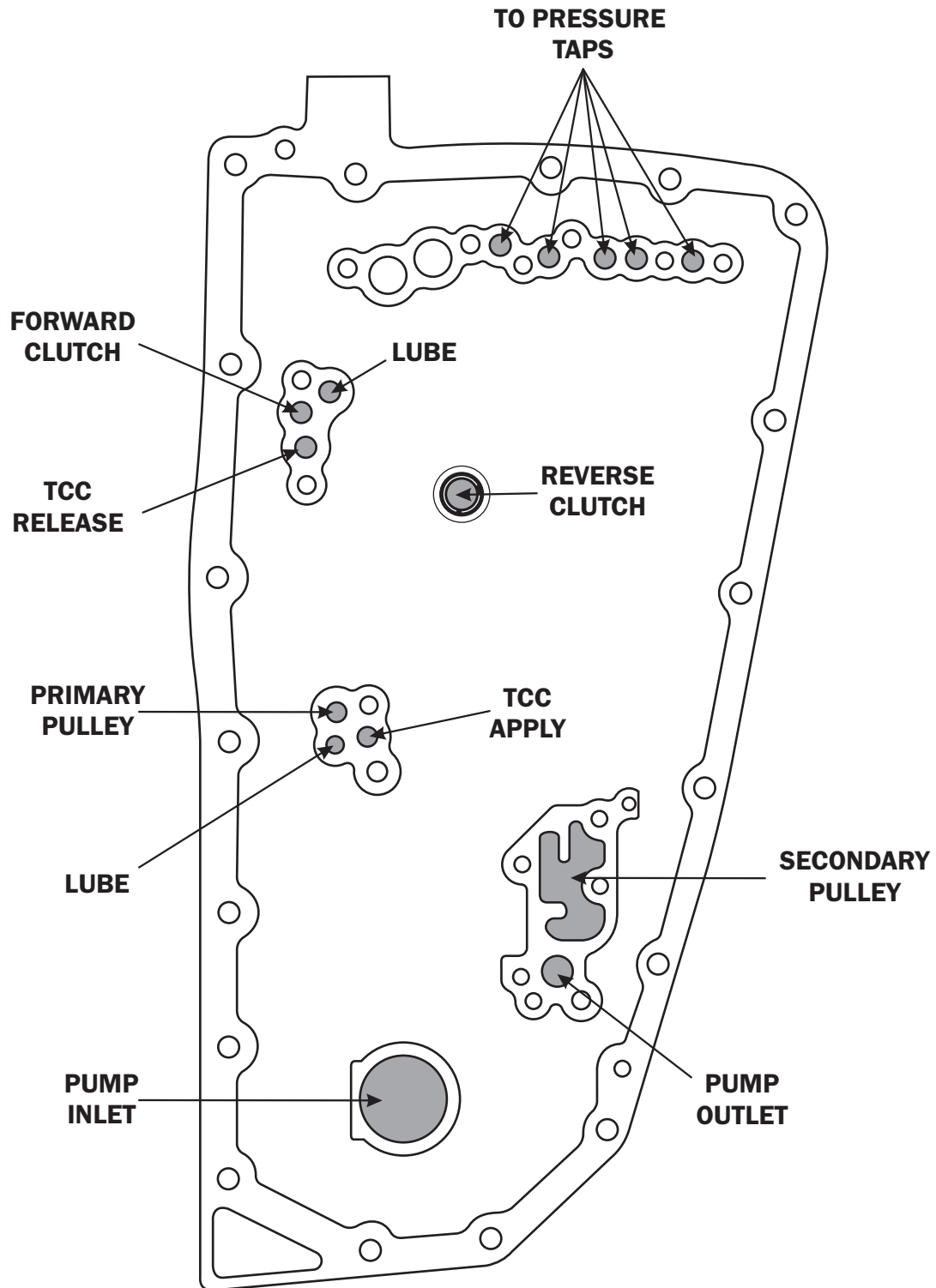
Copyright © 2011 ATSG

MITSUBISHI F4A20/F4A30/KM170/KM171/KM175/KN176/KM177



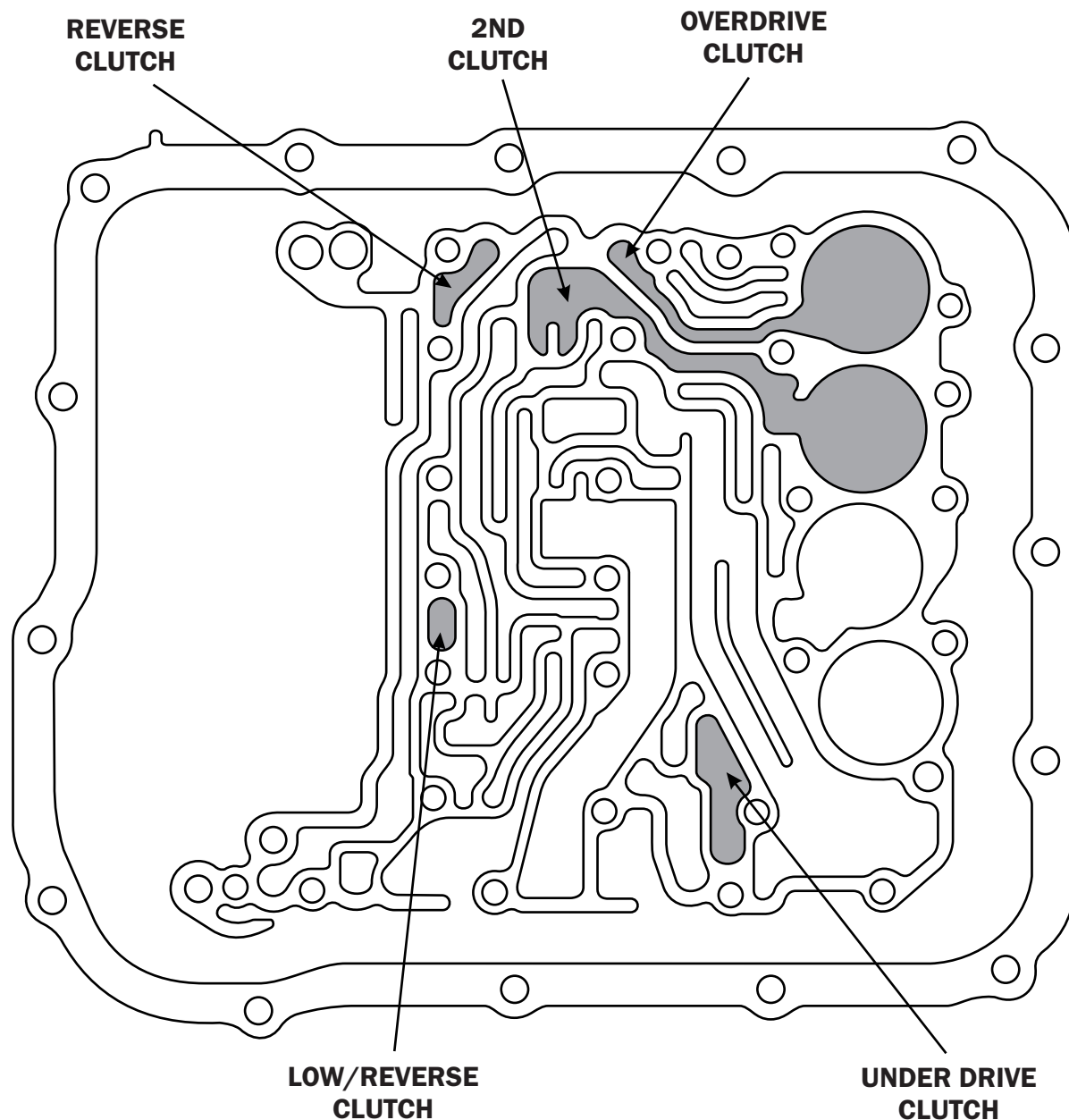
Copyright © 2011 ATSG

MITSUBISHI JF011E / FICJA



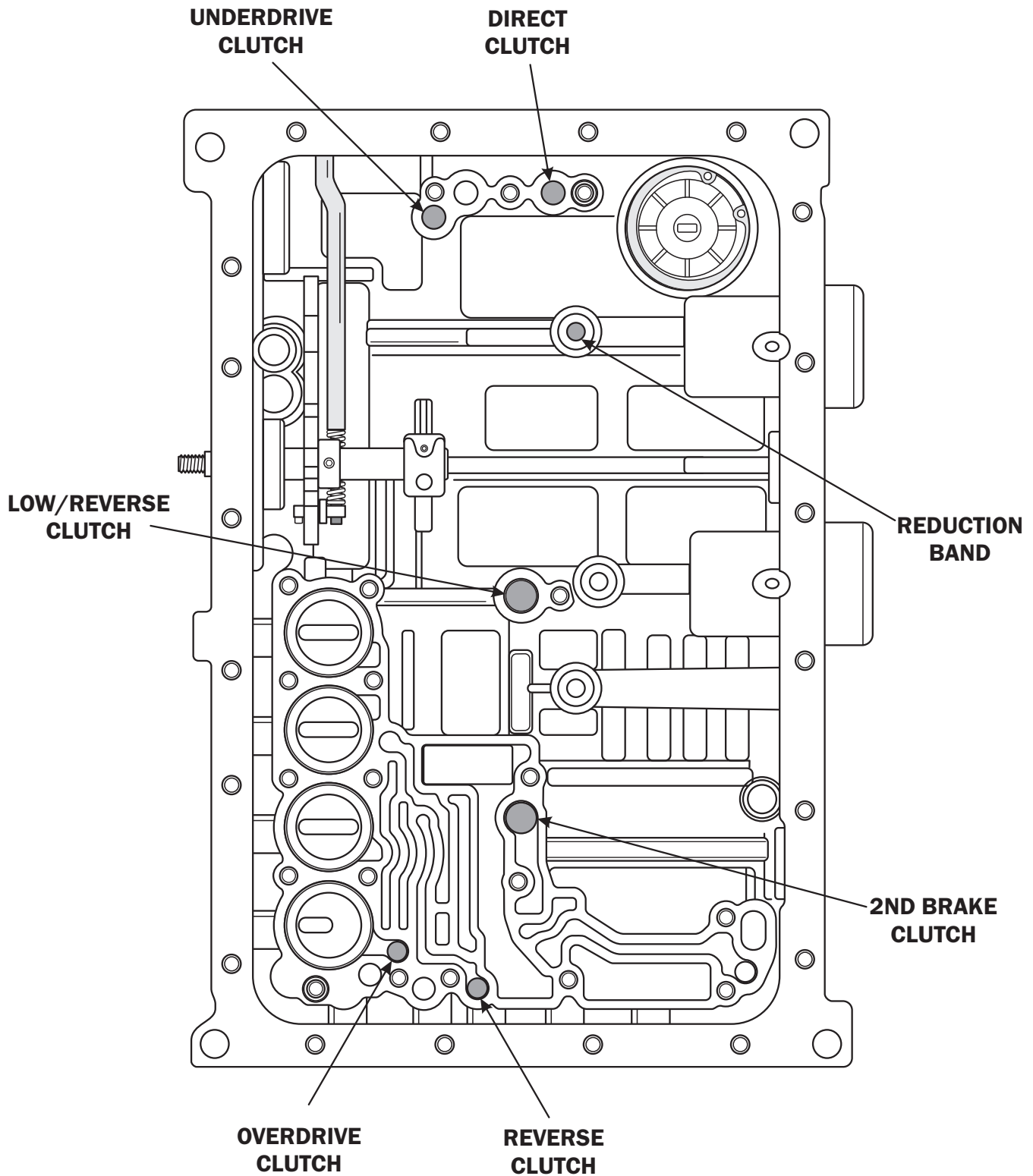
Copyright © 2011 ATSG

MITSUBISHI F4A51



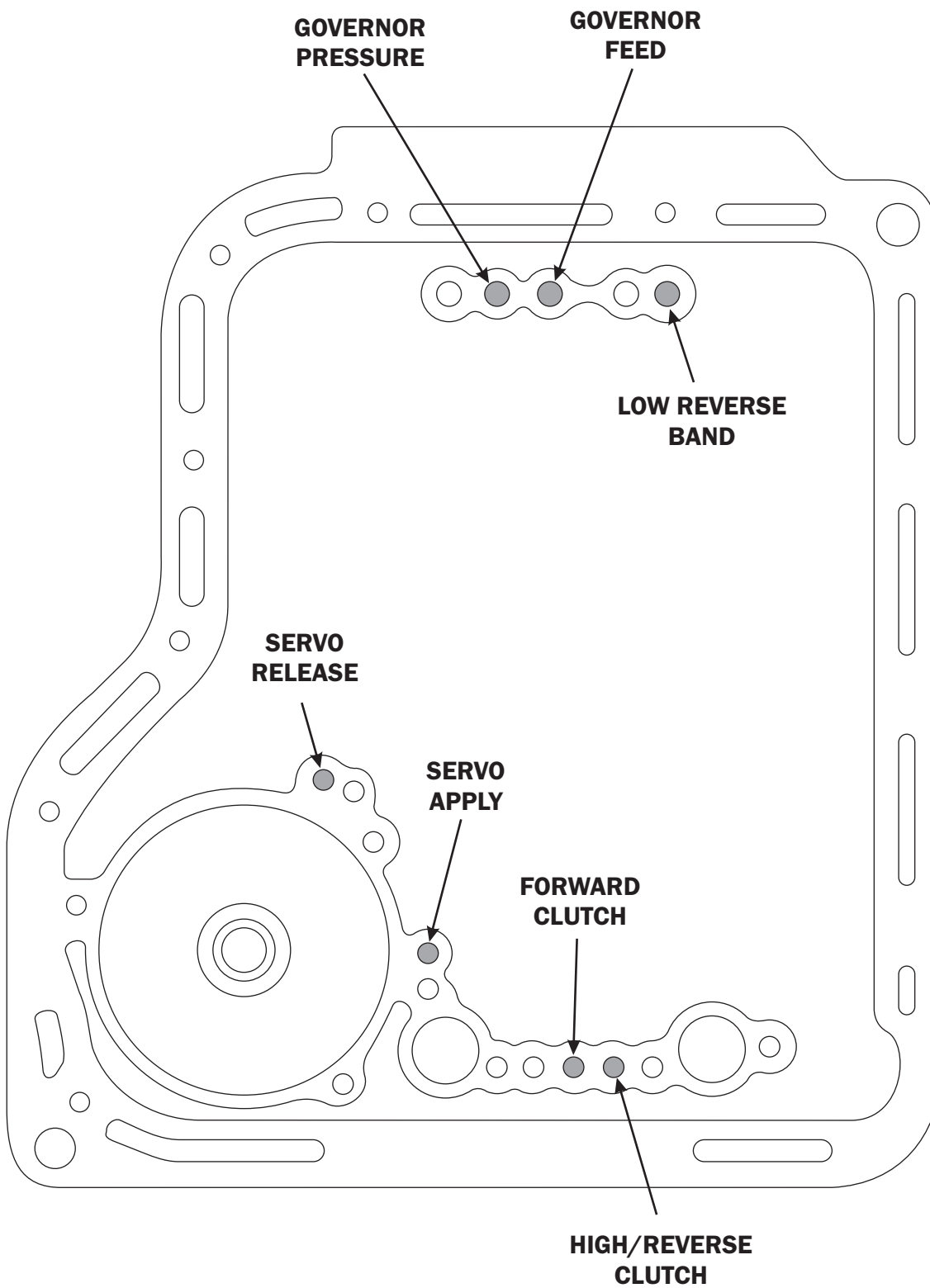
Copyright © 2011 ATSG

MITSUBISHI R4-V4A51 / R5-R5A51



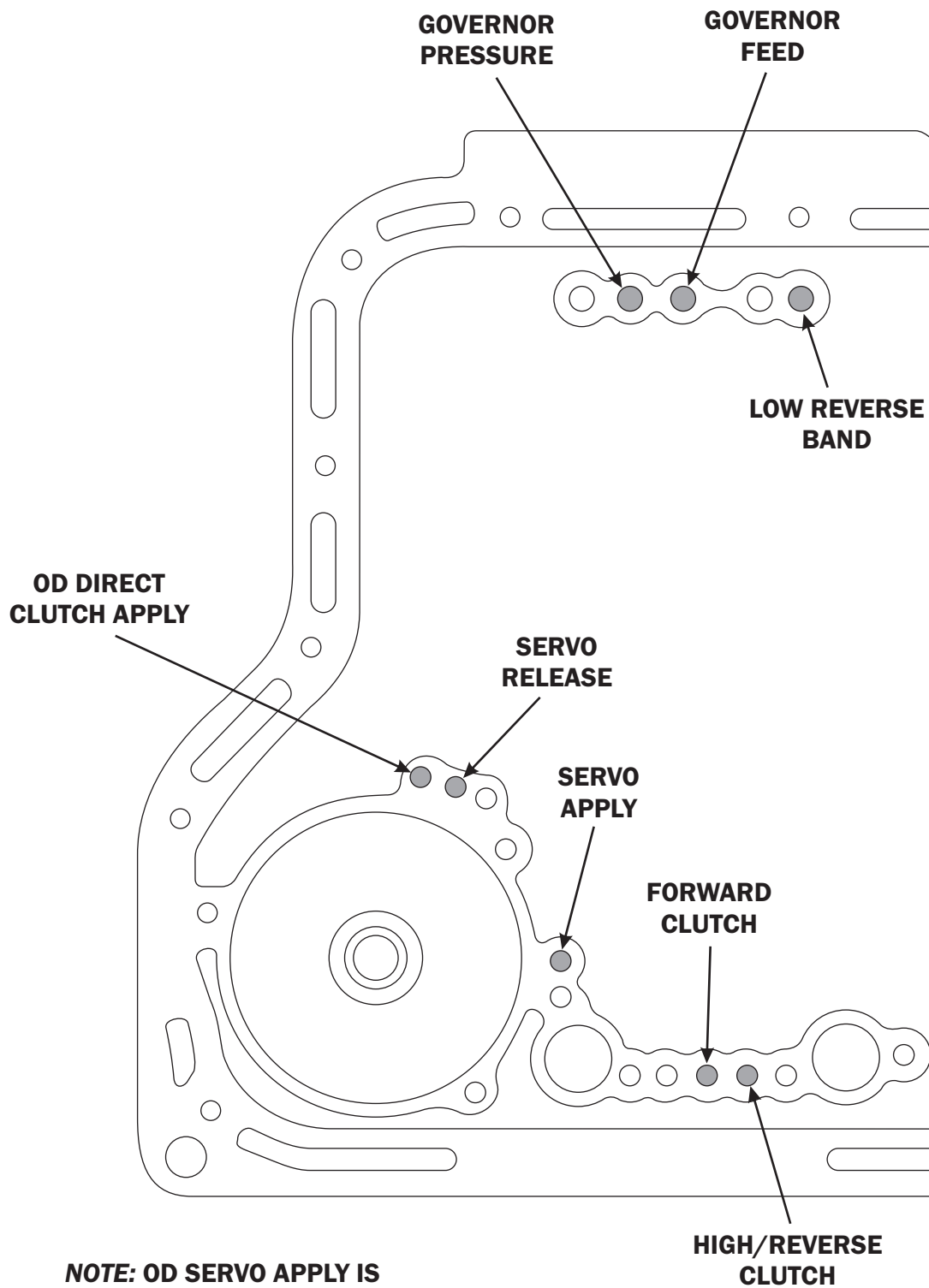
Copyright © 2011 ATSG

NISSAN L3N71B



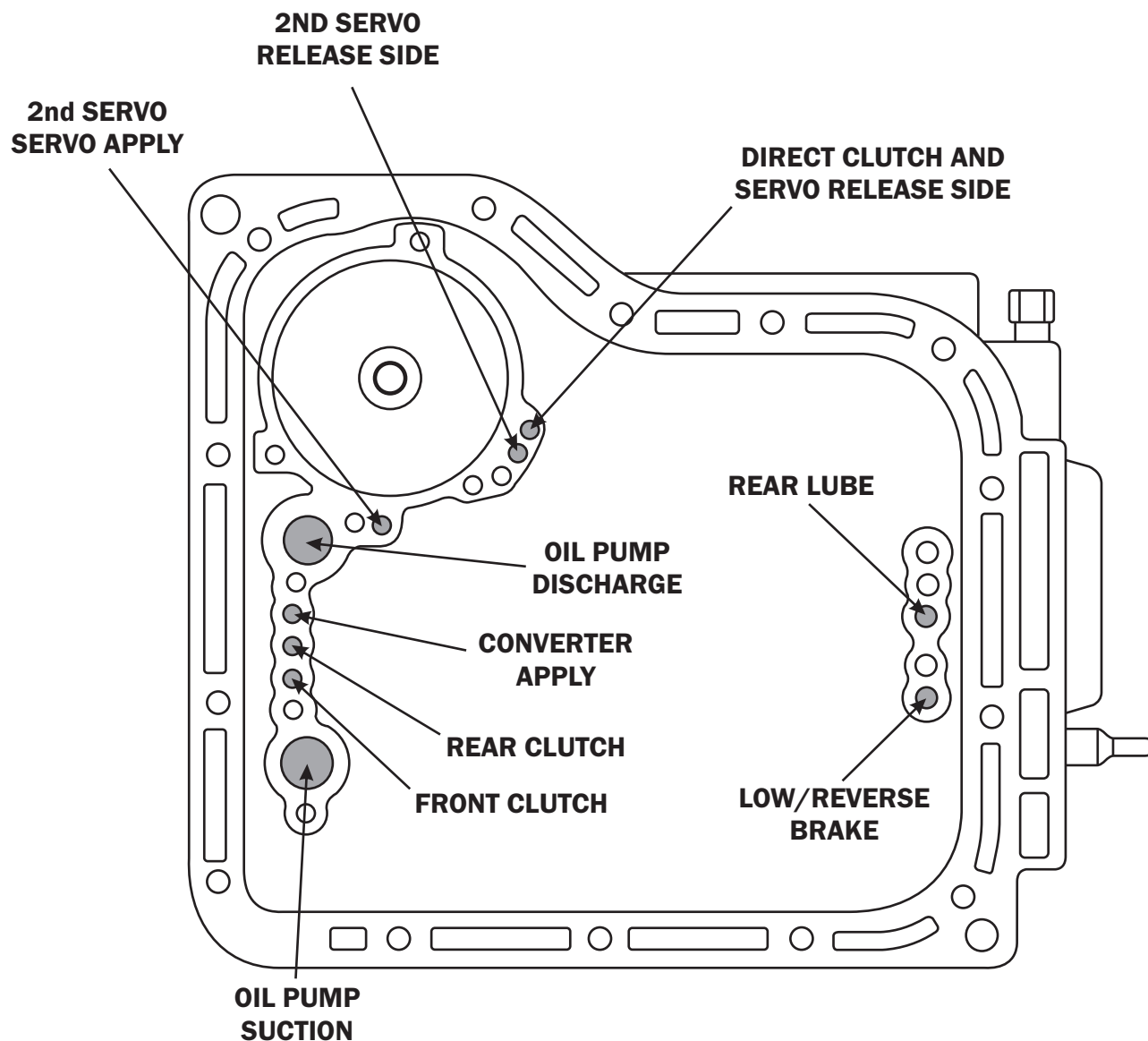
Copyright © 2011 ATSG

NISSAN L4N71B



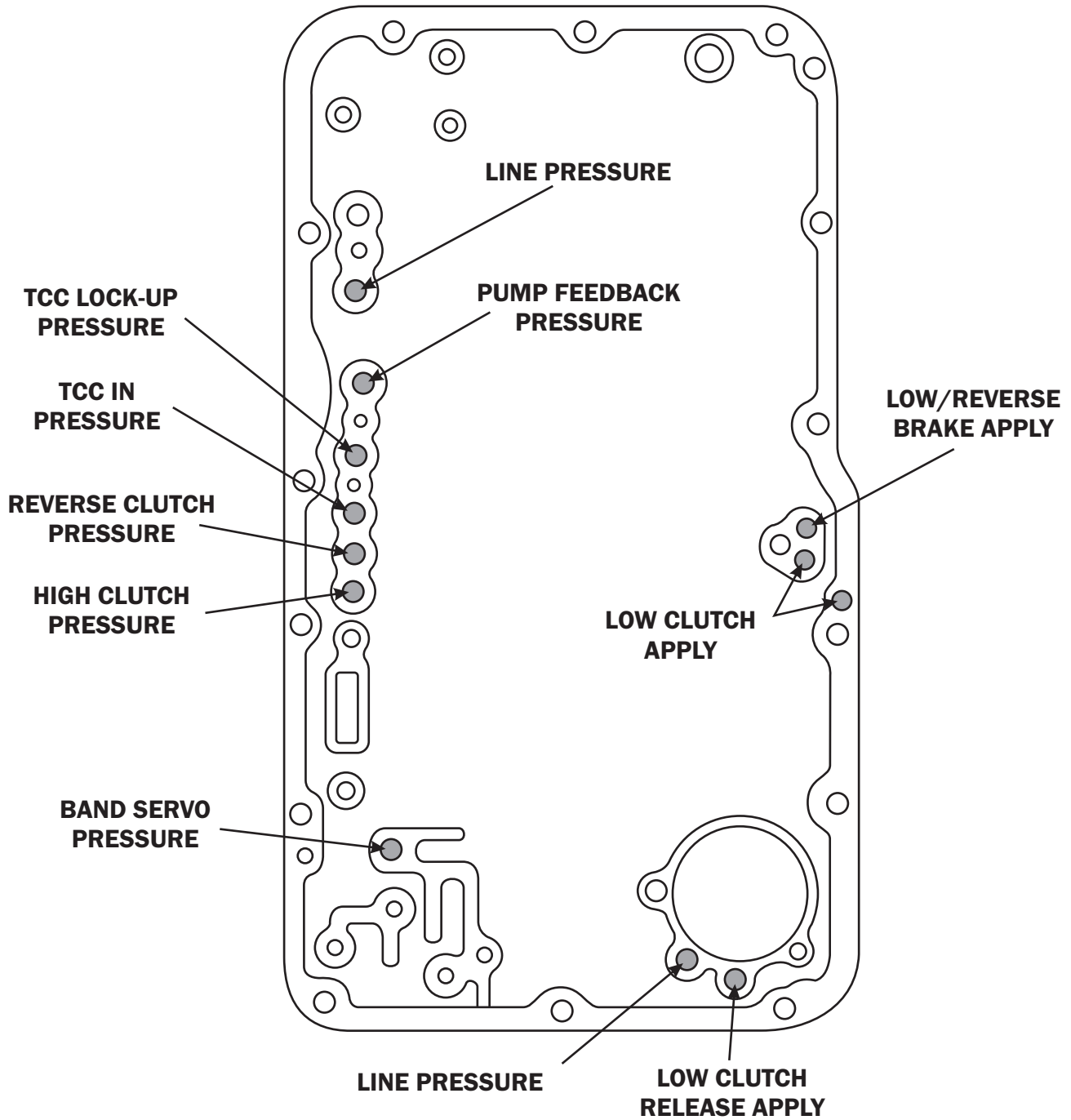
Copyright © 2011 ATSG

NISSAN N4AEL



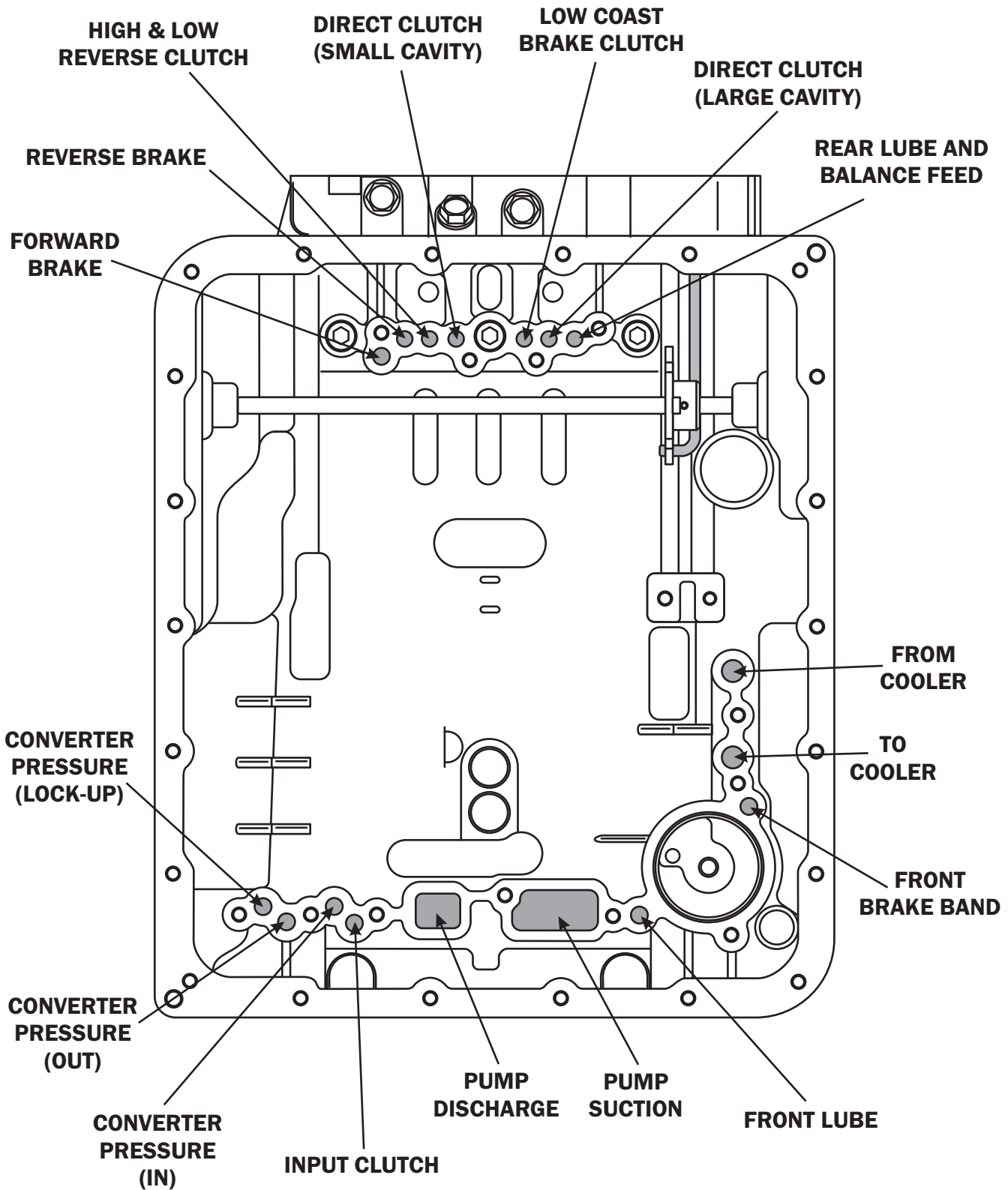
**NOTE: OD SERVO APPLY IS
FED FROM THE PUMP**

NISSAN RE4FO2A



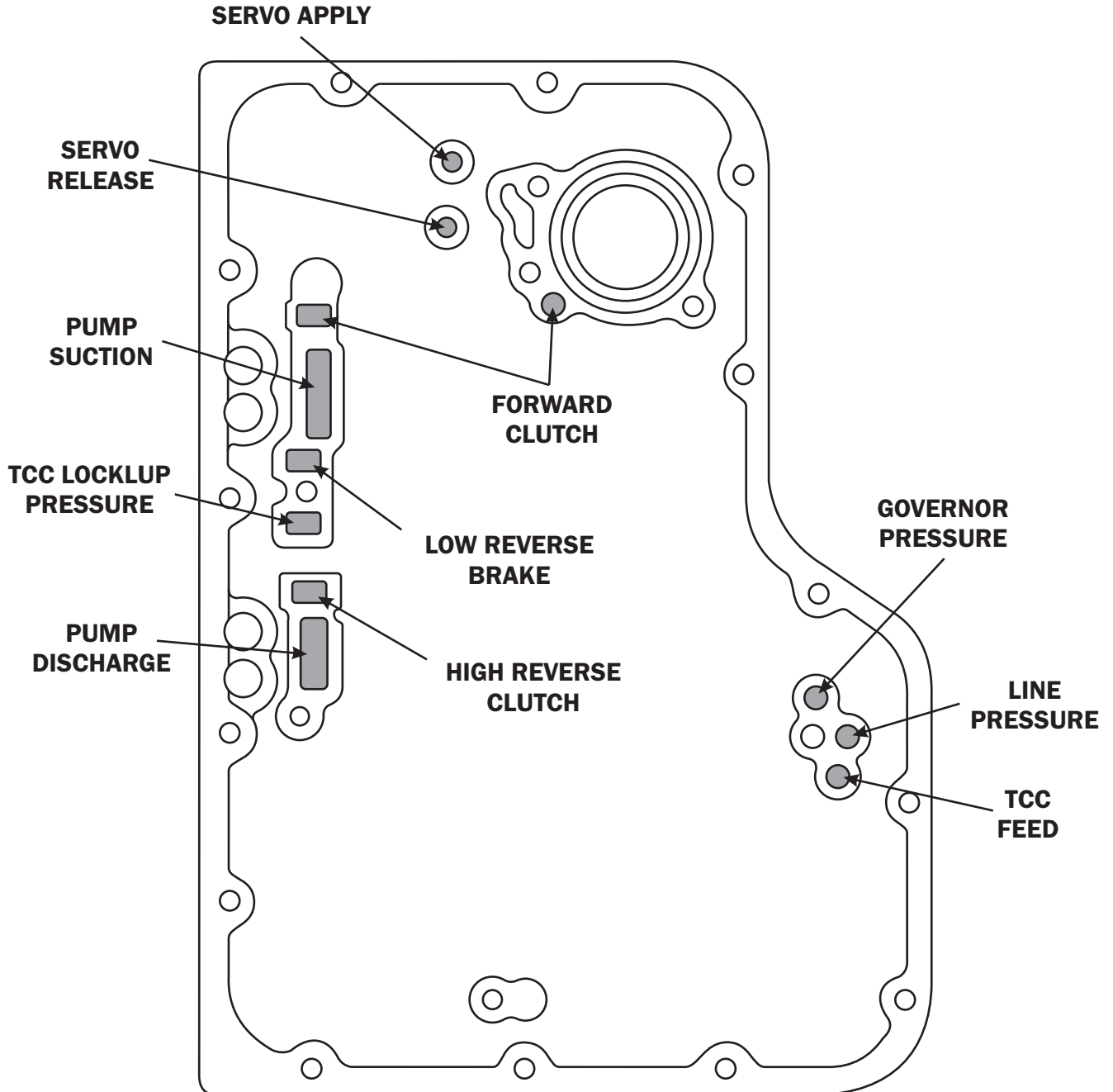
Copyright © 2011 ATSG

NISSAN RE5R05A



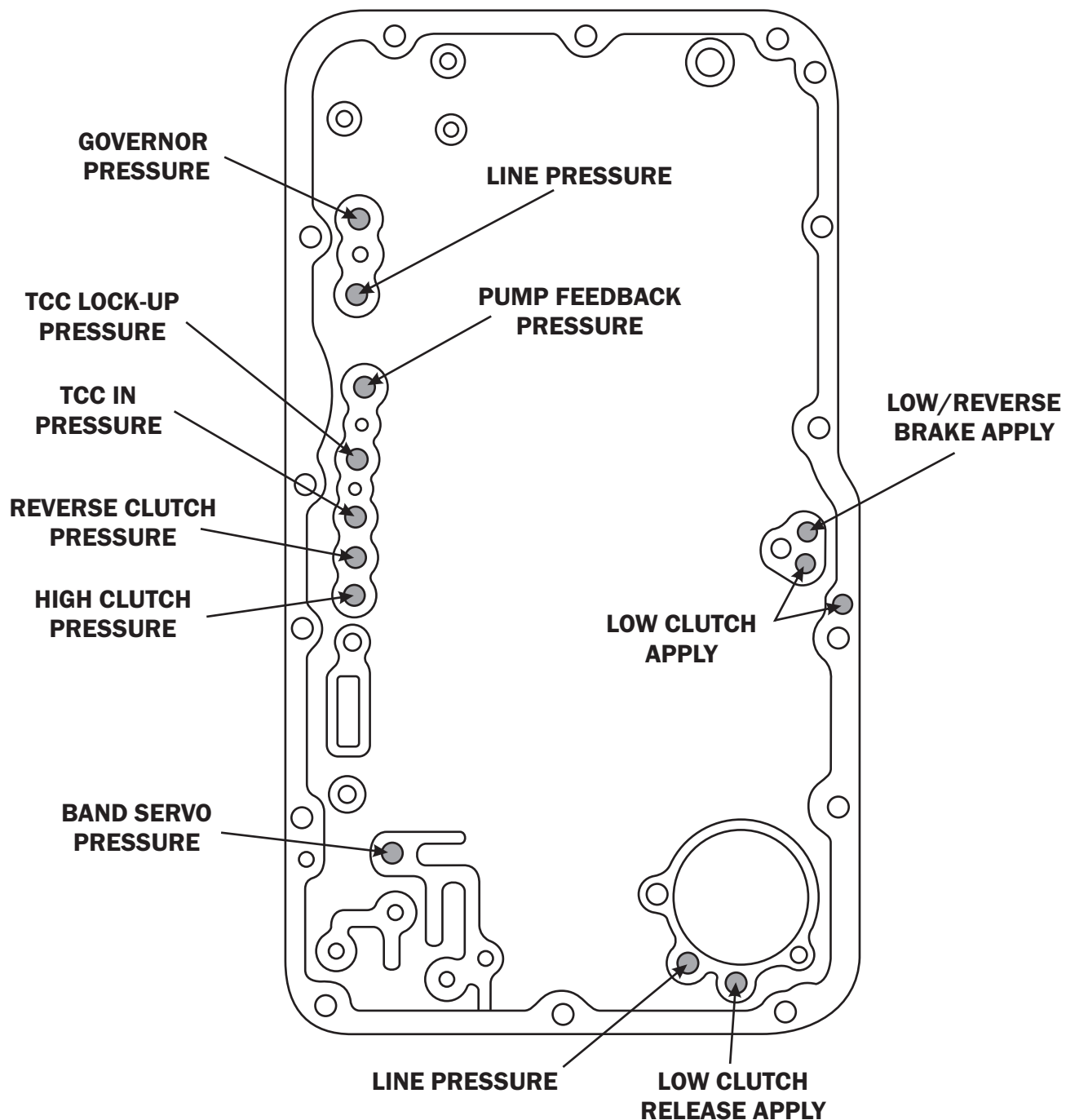
Copyright © 2011 ATSG

NISSAN RL3FO1A



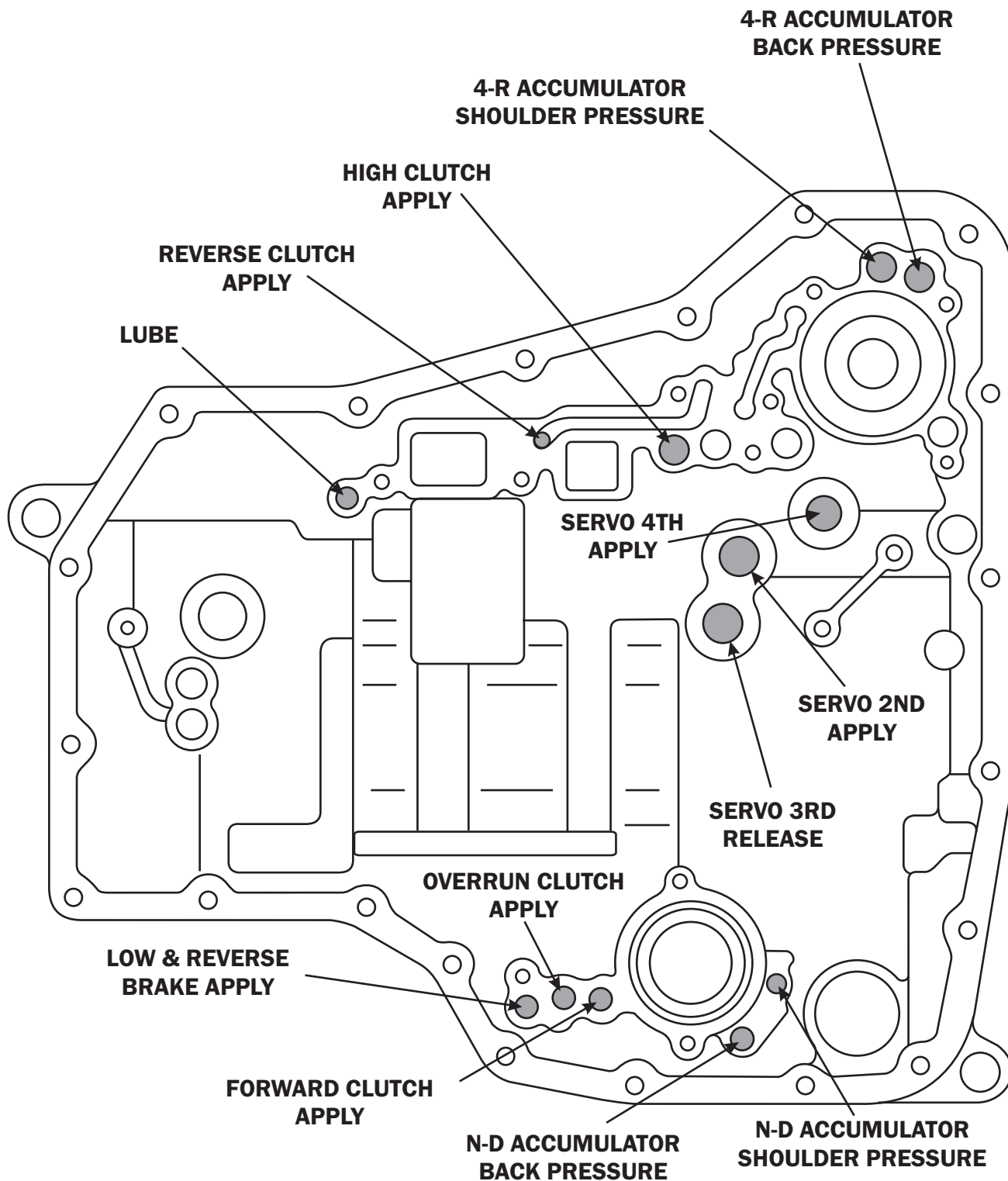
Copyright © 2011 ATSG

NISSAN RL4FO2A



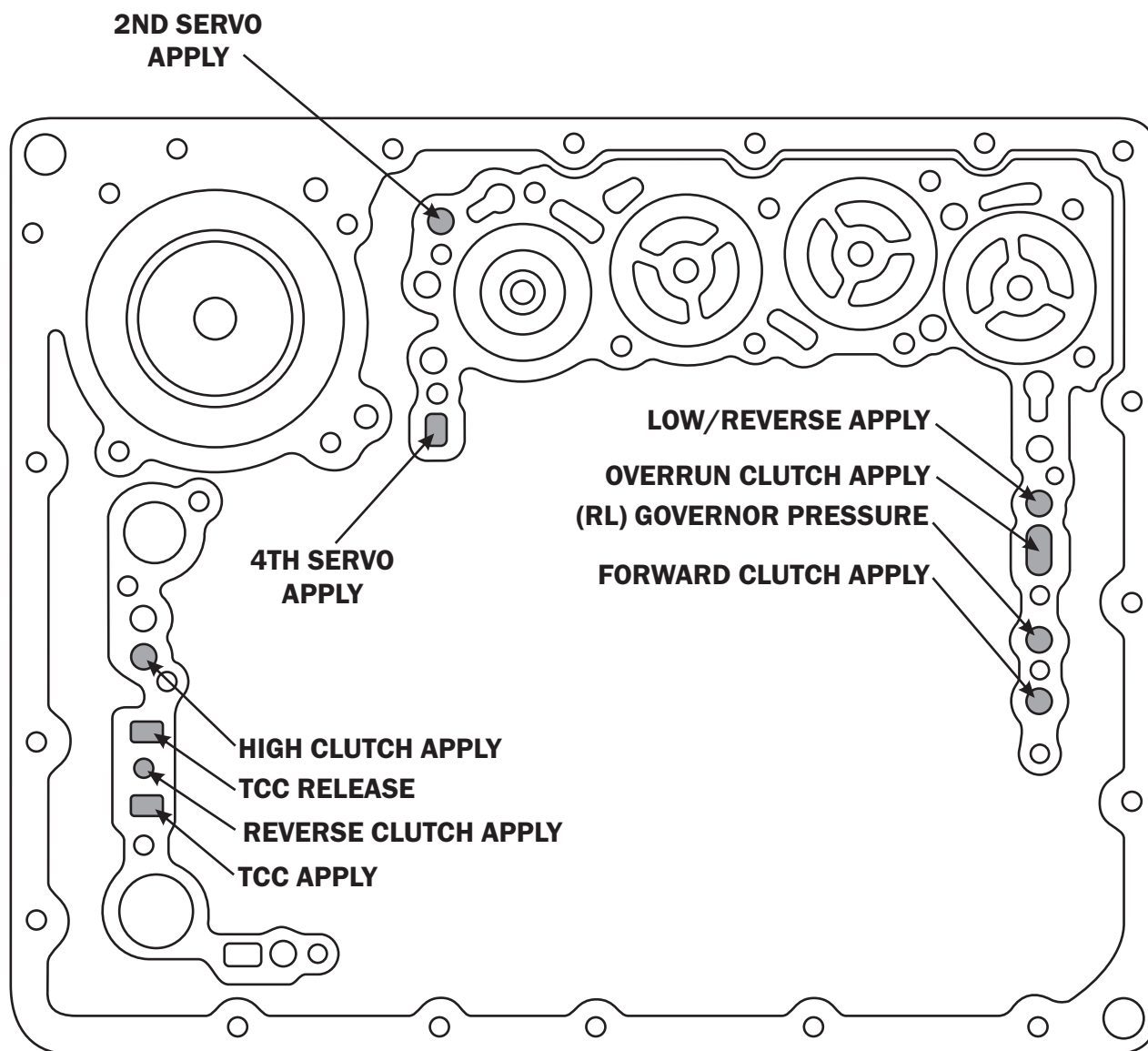
Copyright © 2011 ATSG

NISSAN RL4FO3A/V



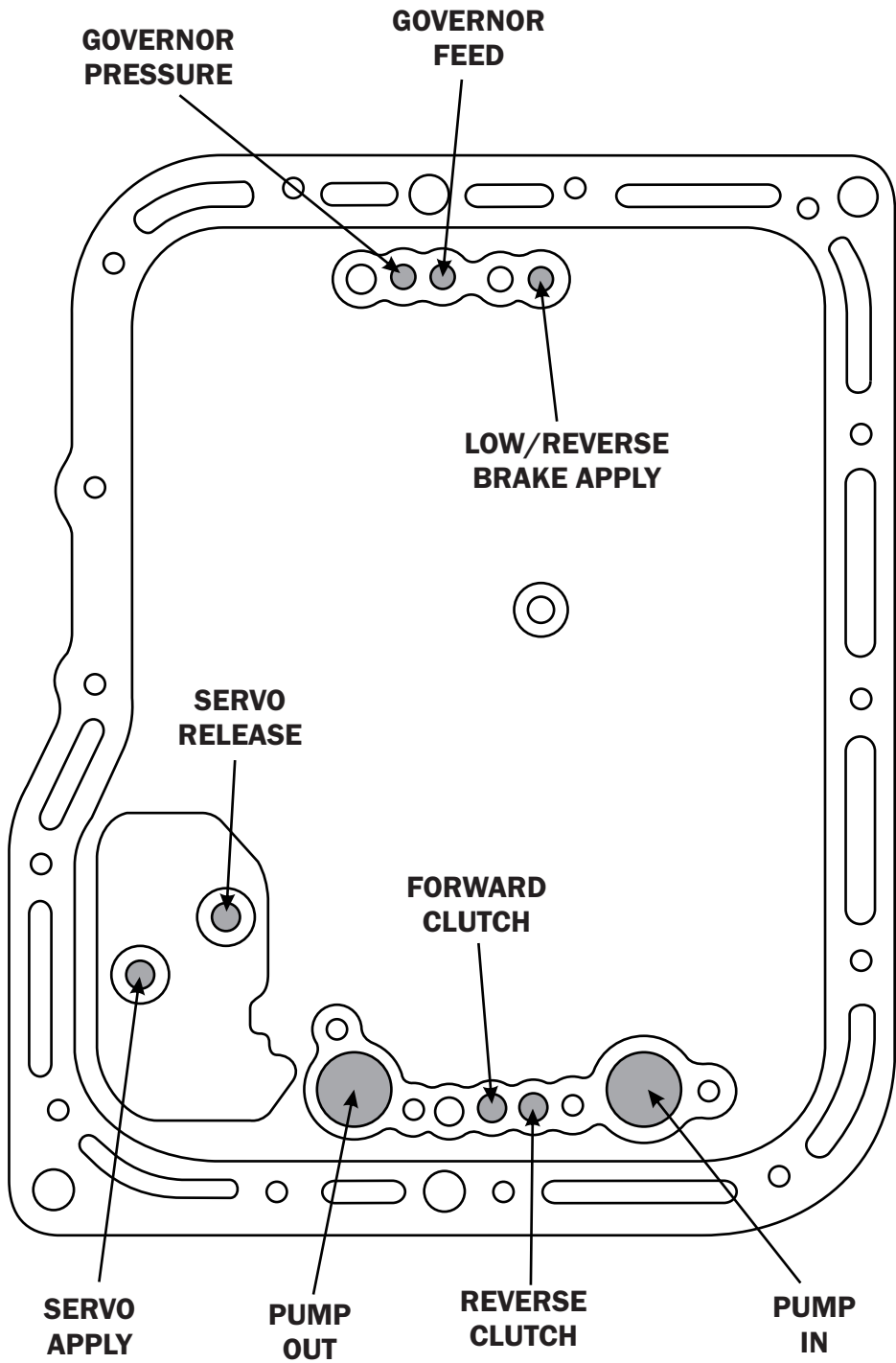
Copyright © 2011 ATSG

NISSAN RL4RO1A/RE4RO1A/JR403E/RE4RO3A/R4A-EL



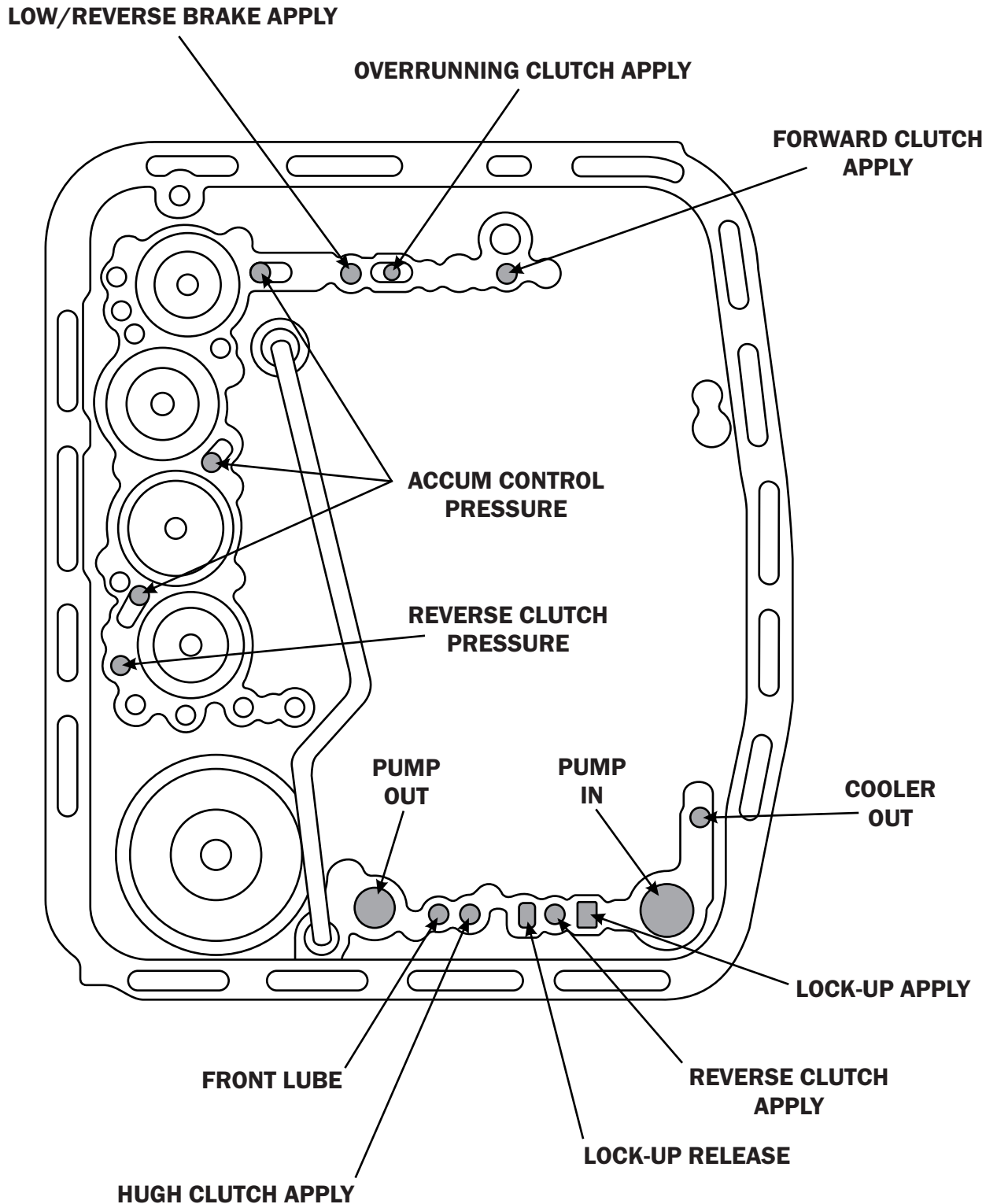
Copyright © 2011 ATSG

SUBARU 3 SPEED



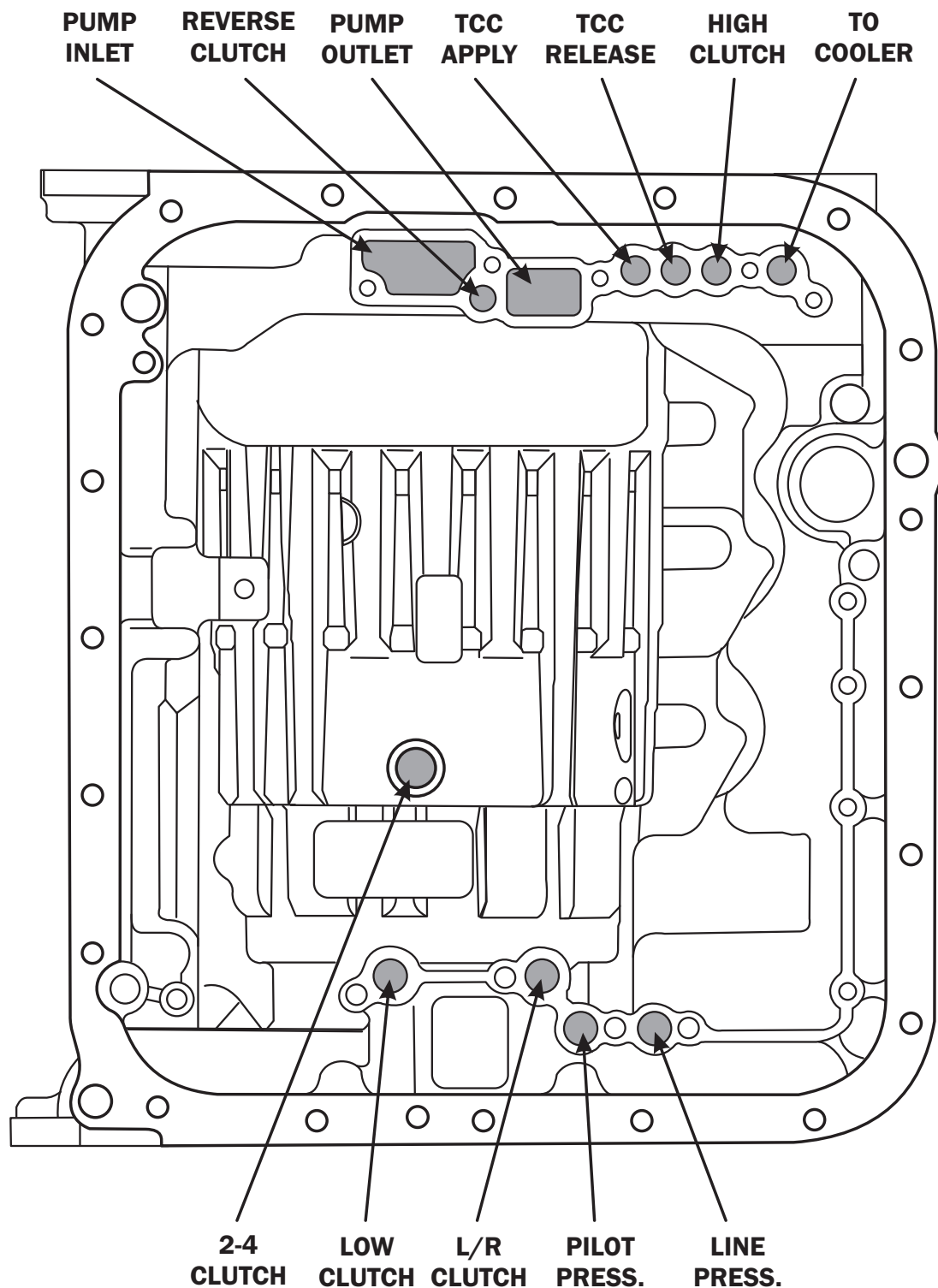
Copyright © 2011 ATSG

SUBARU 4 SPEED



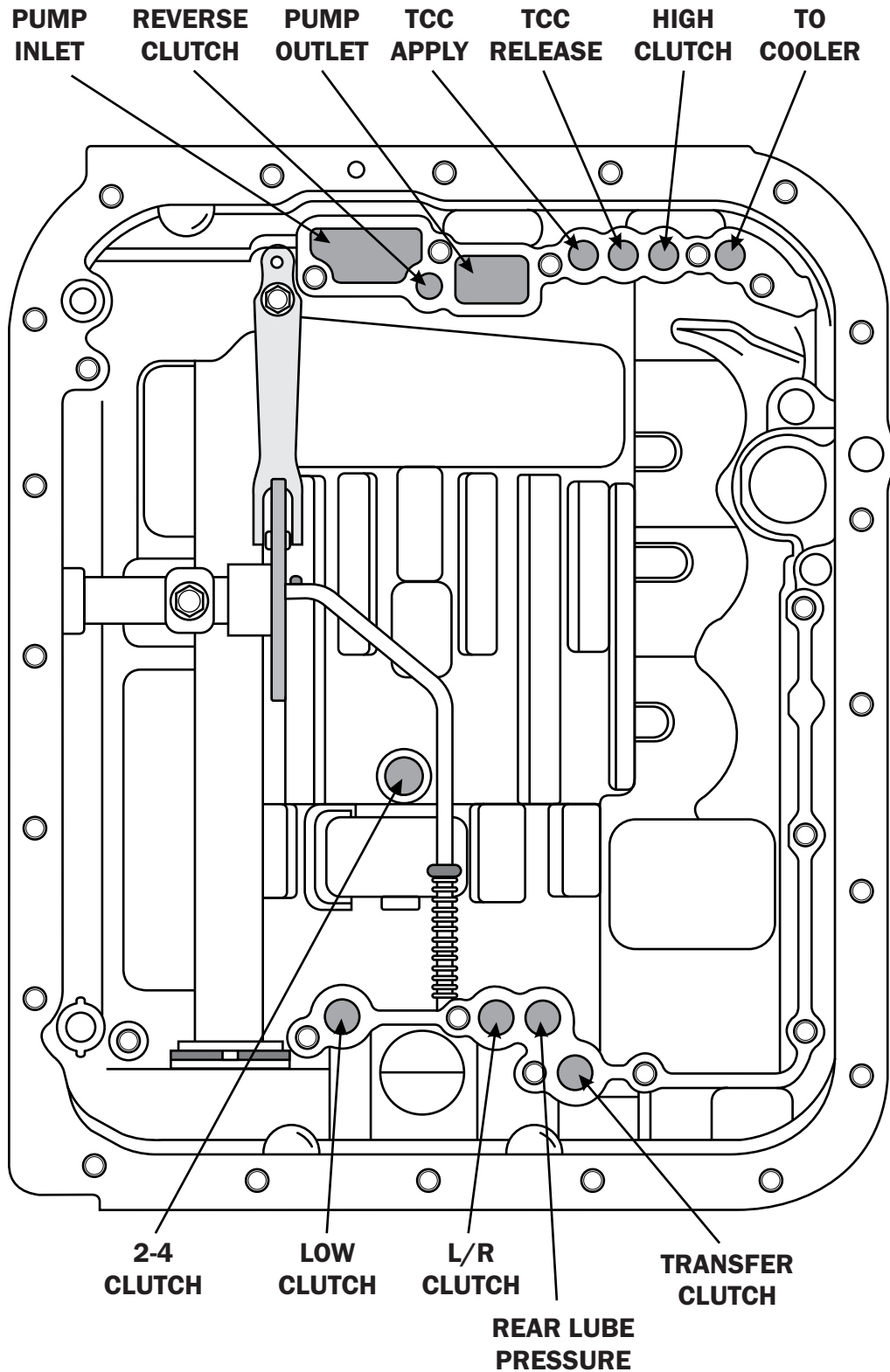
Copyright © 2011 ATSG

SUBARU PHASE II



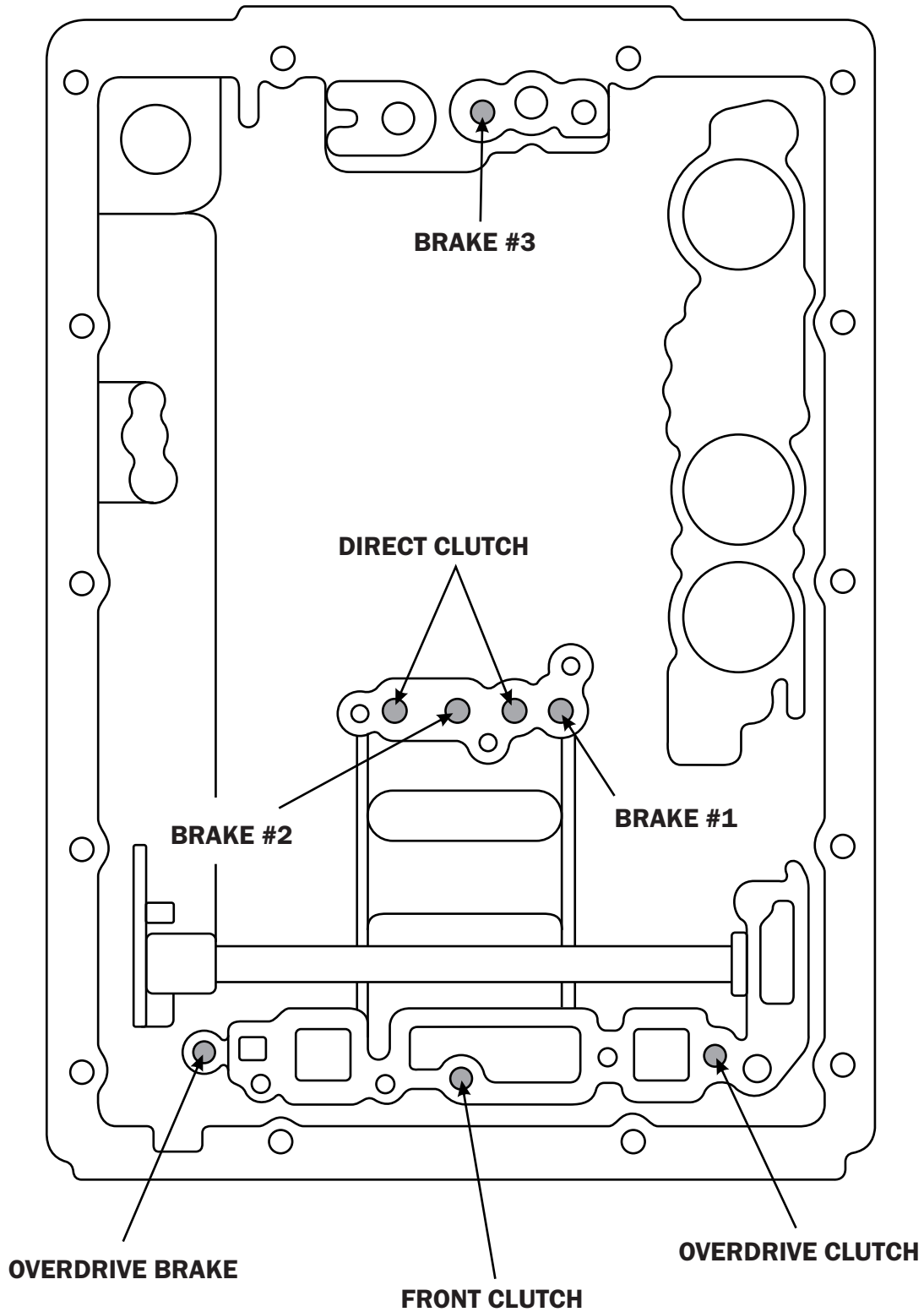
Copyright © 2011 ATSG

SUBARU PHASE II VERSION II



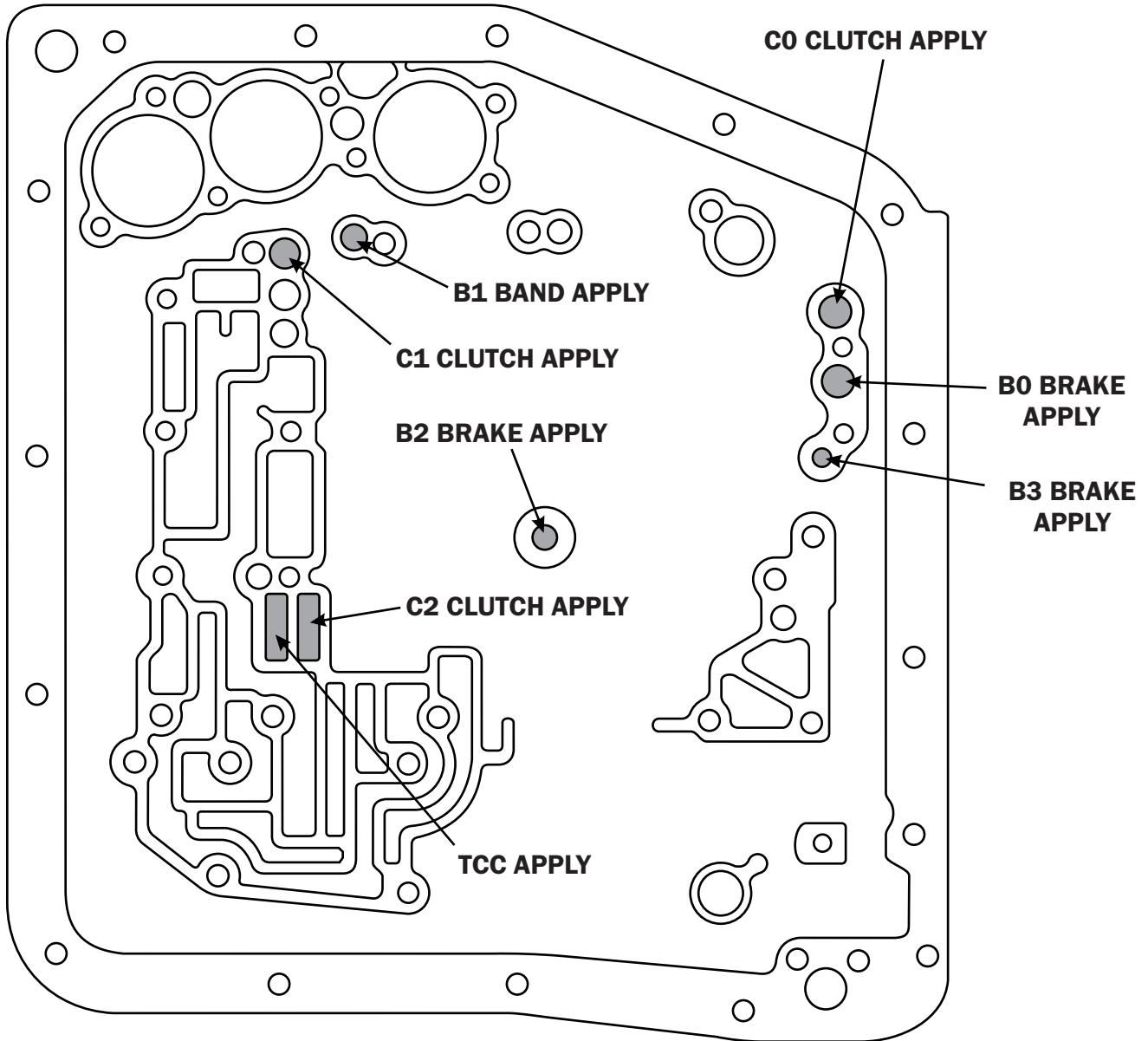
Copyright © 2011 ATSG

TOYOTA A40



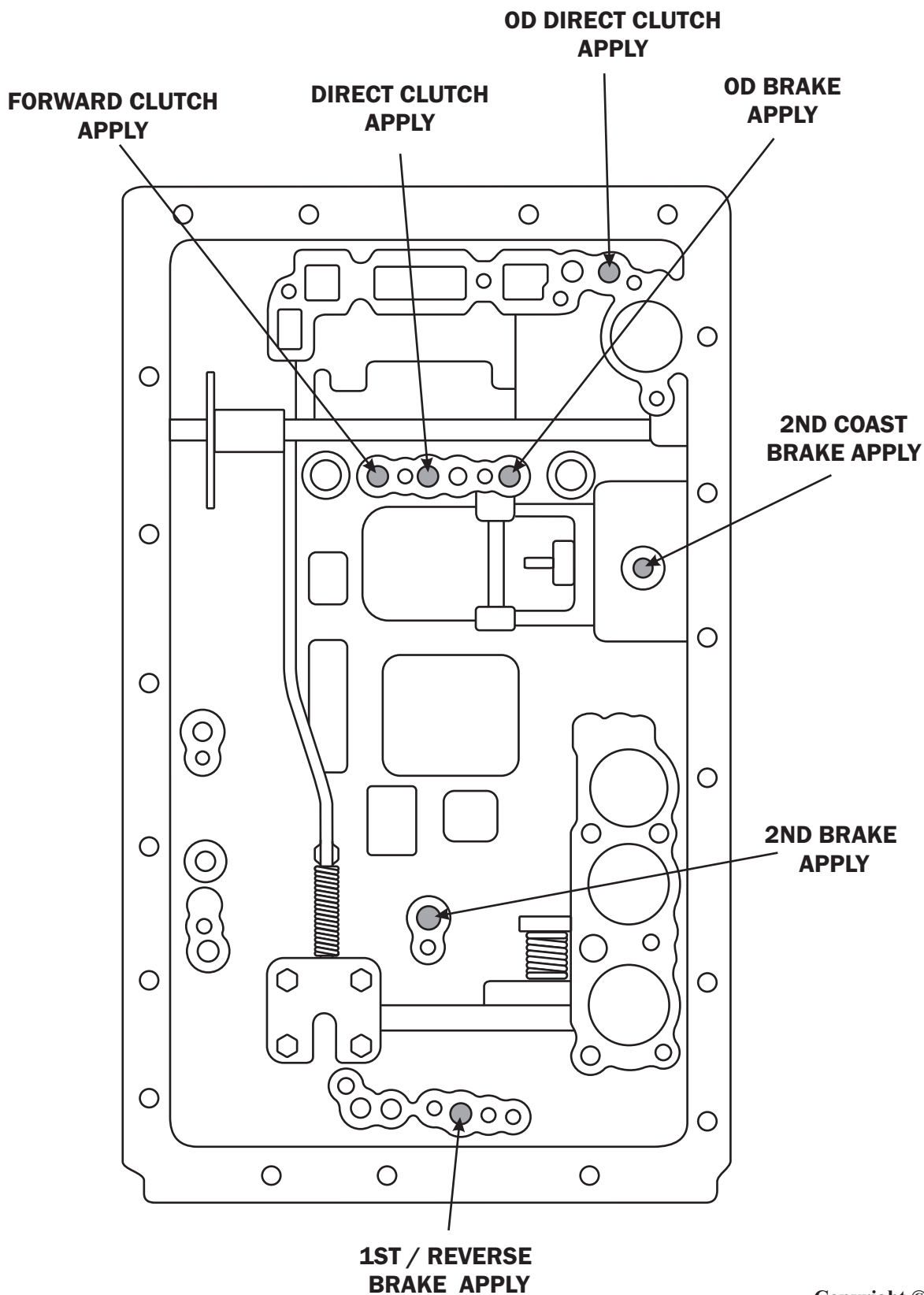
Copyright © 2011 ATSG

TOYOTA A140



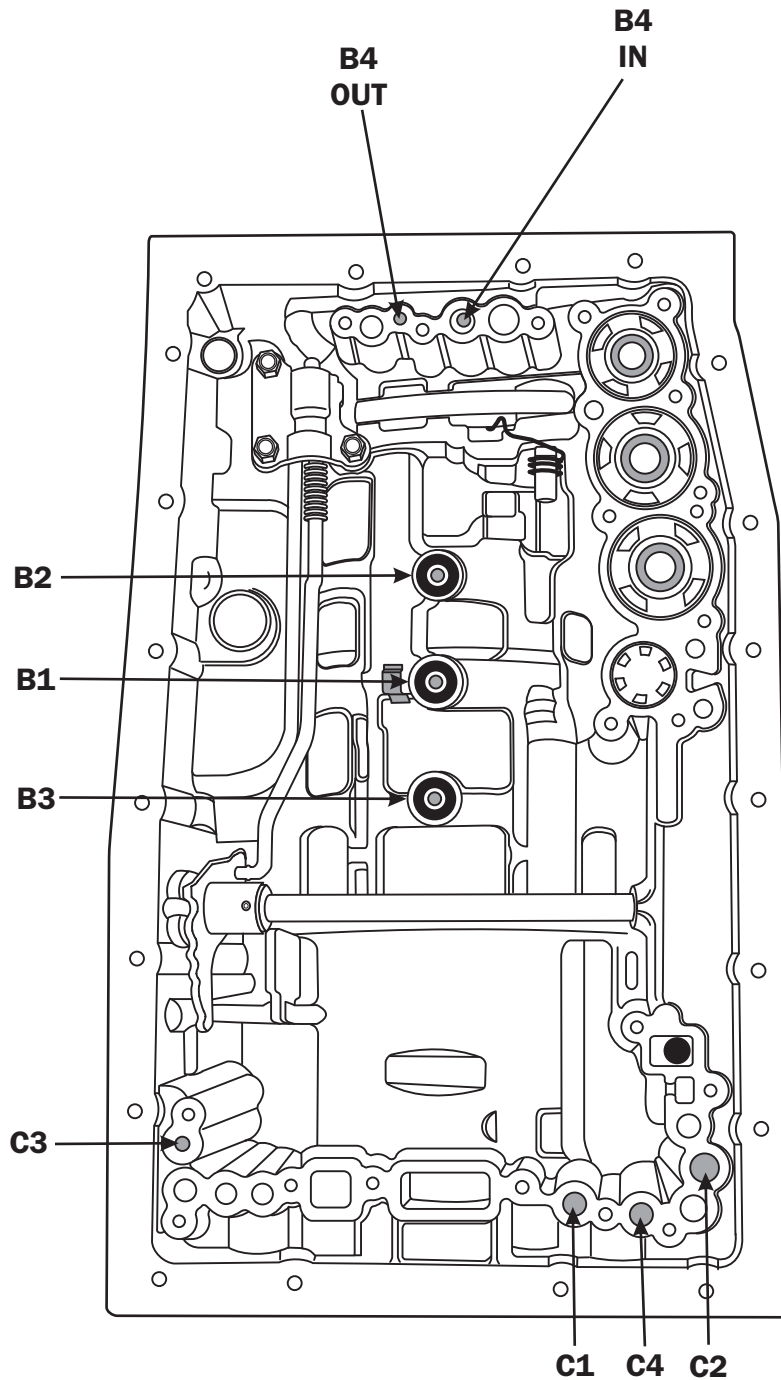
Copyright © 2011 ATSG

TOYOTA A340



Copyright © 2011 ATSG

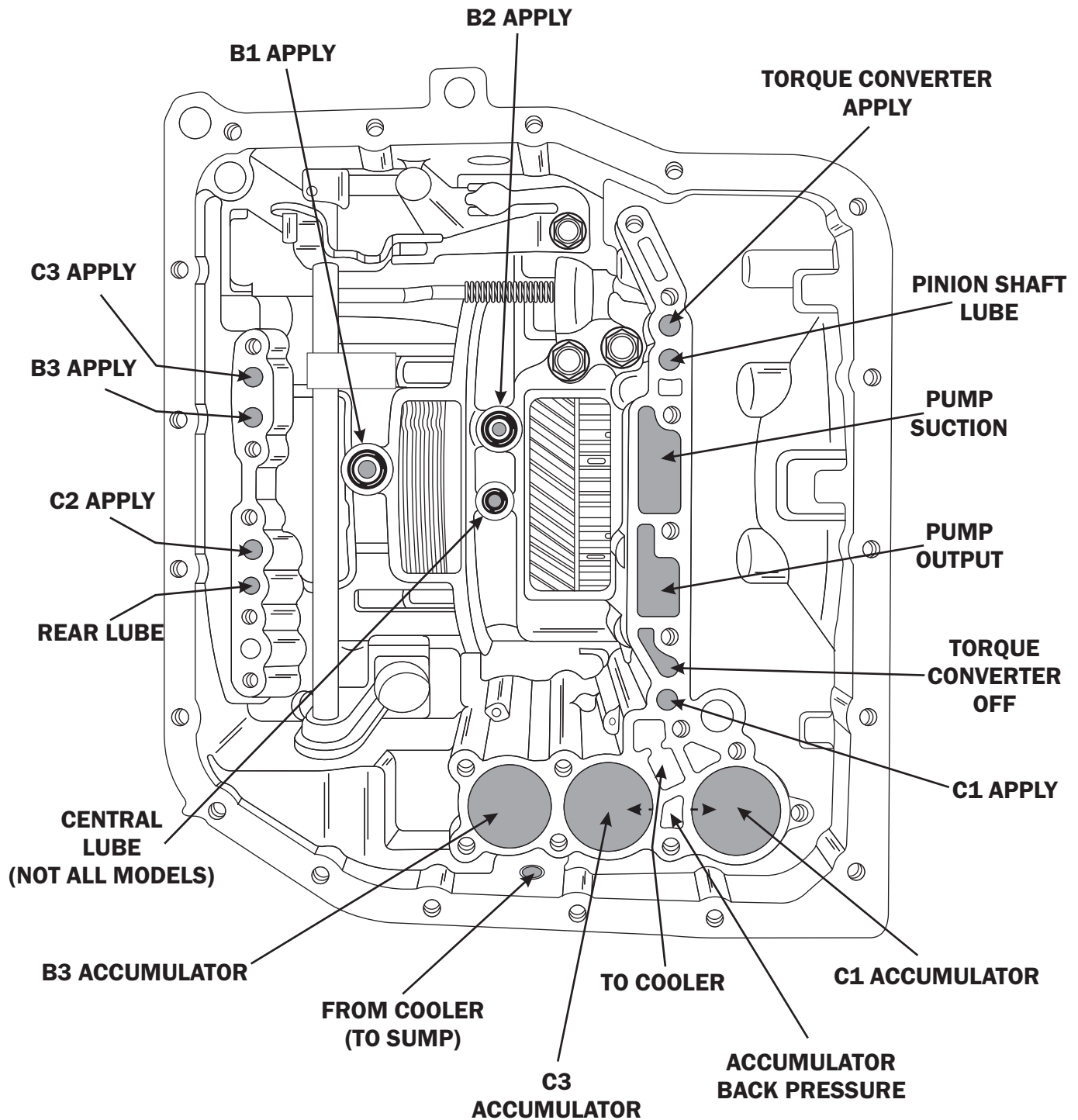
TOYOTA A761



Copyright © 2011 ATSG

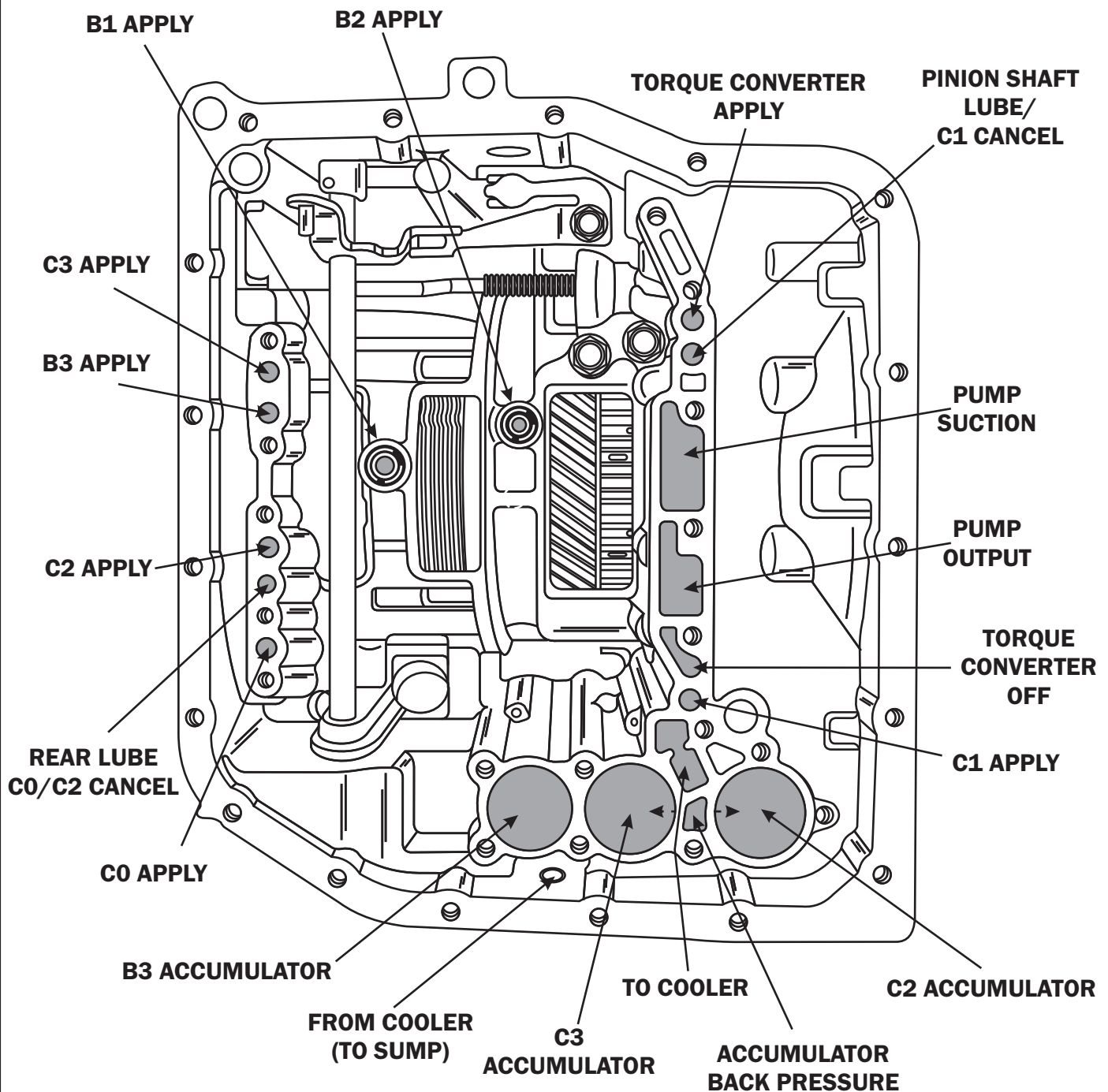
TOYOTA U140 / U240 SERIES

ProCarManuals.com



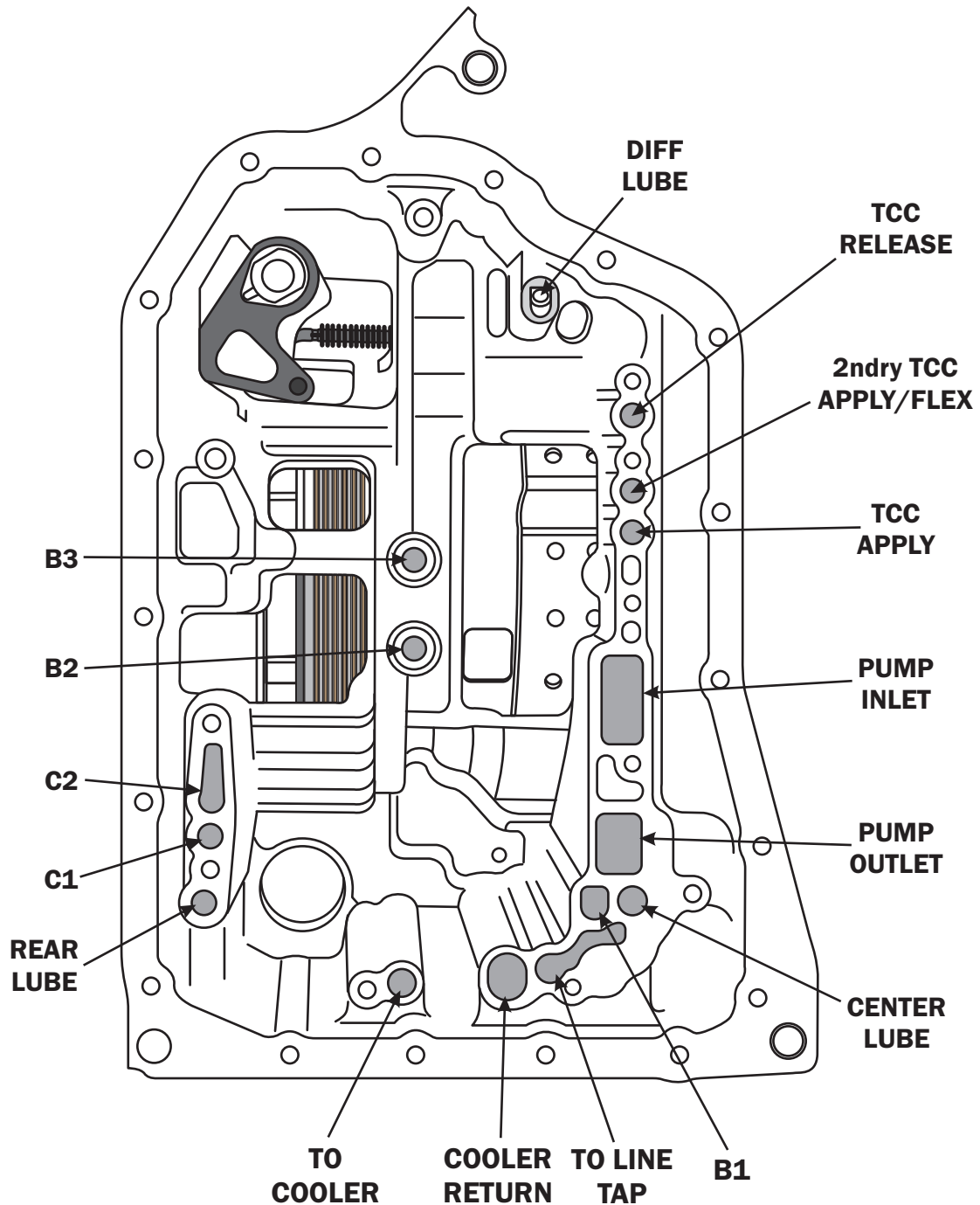
Copyright © 2011 ATSG

TOYOTA U150 / 250 SERIES

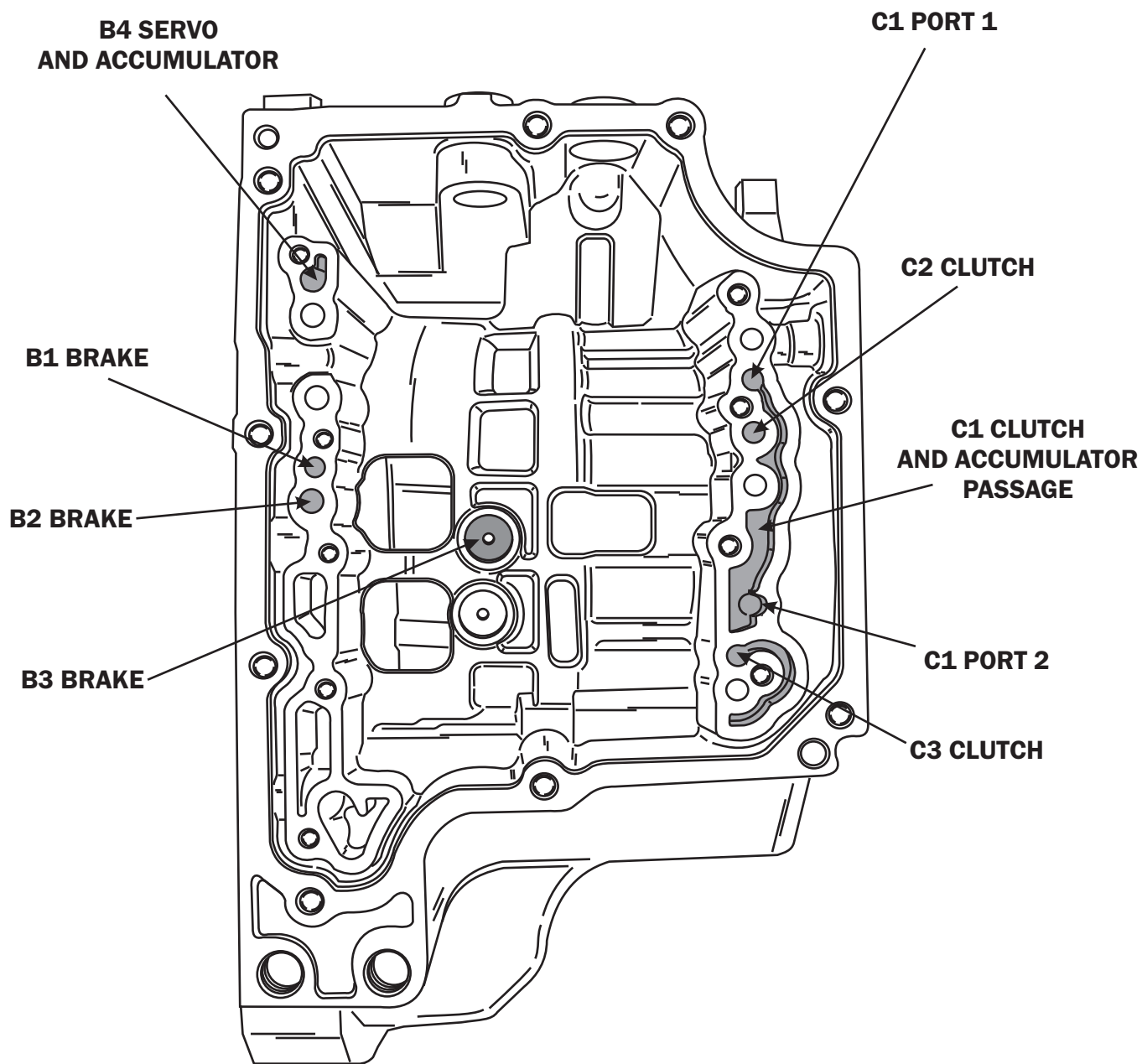


Copyright © 2011 ATSG

TOYOTA U660E



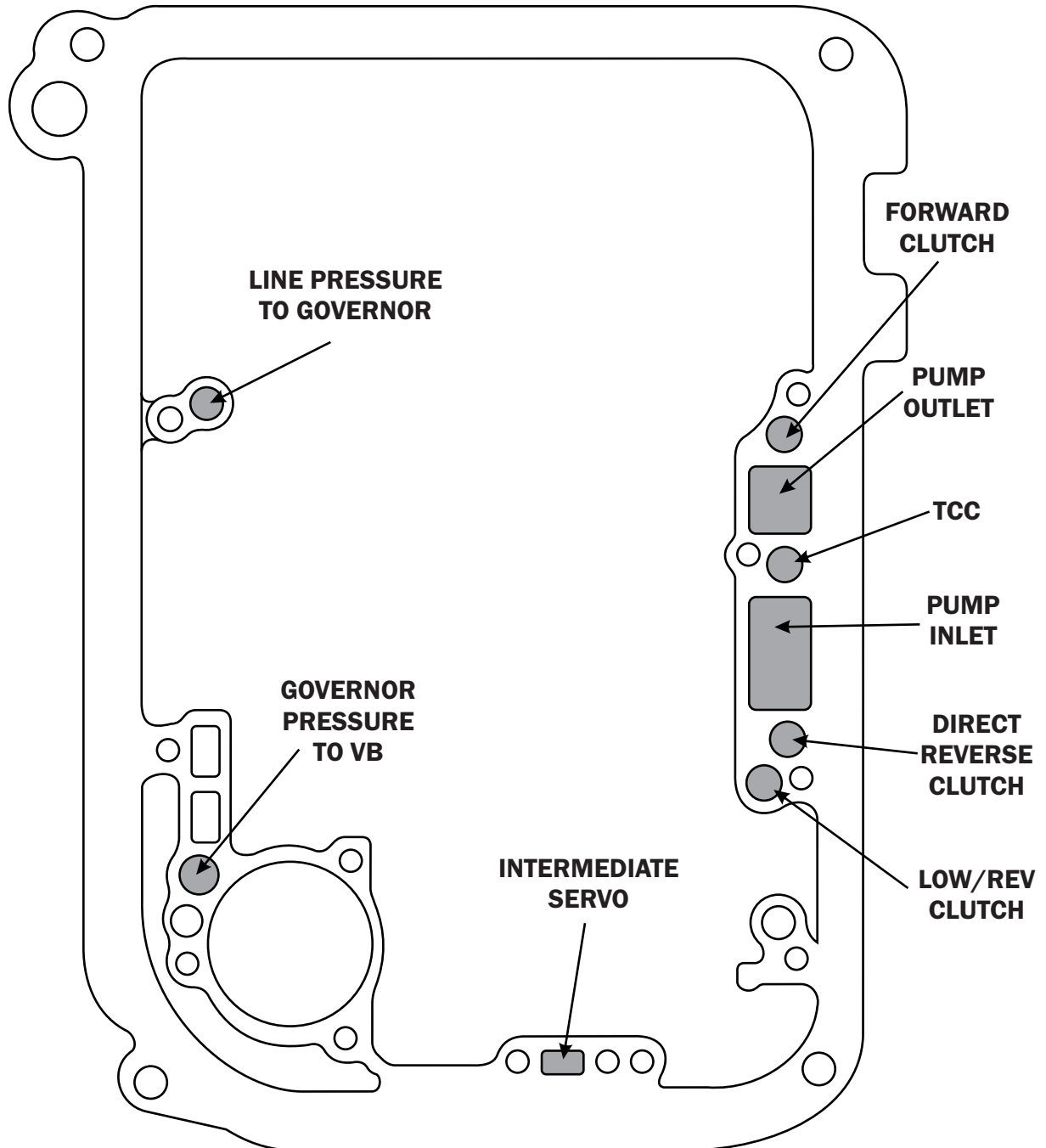
VOLVO 50-42LE



NOTE: When air checking the C1 clutch thru C1 port 1, you must cover C1 port 2 and vice-versa.

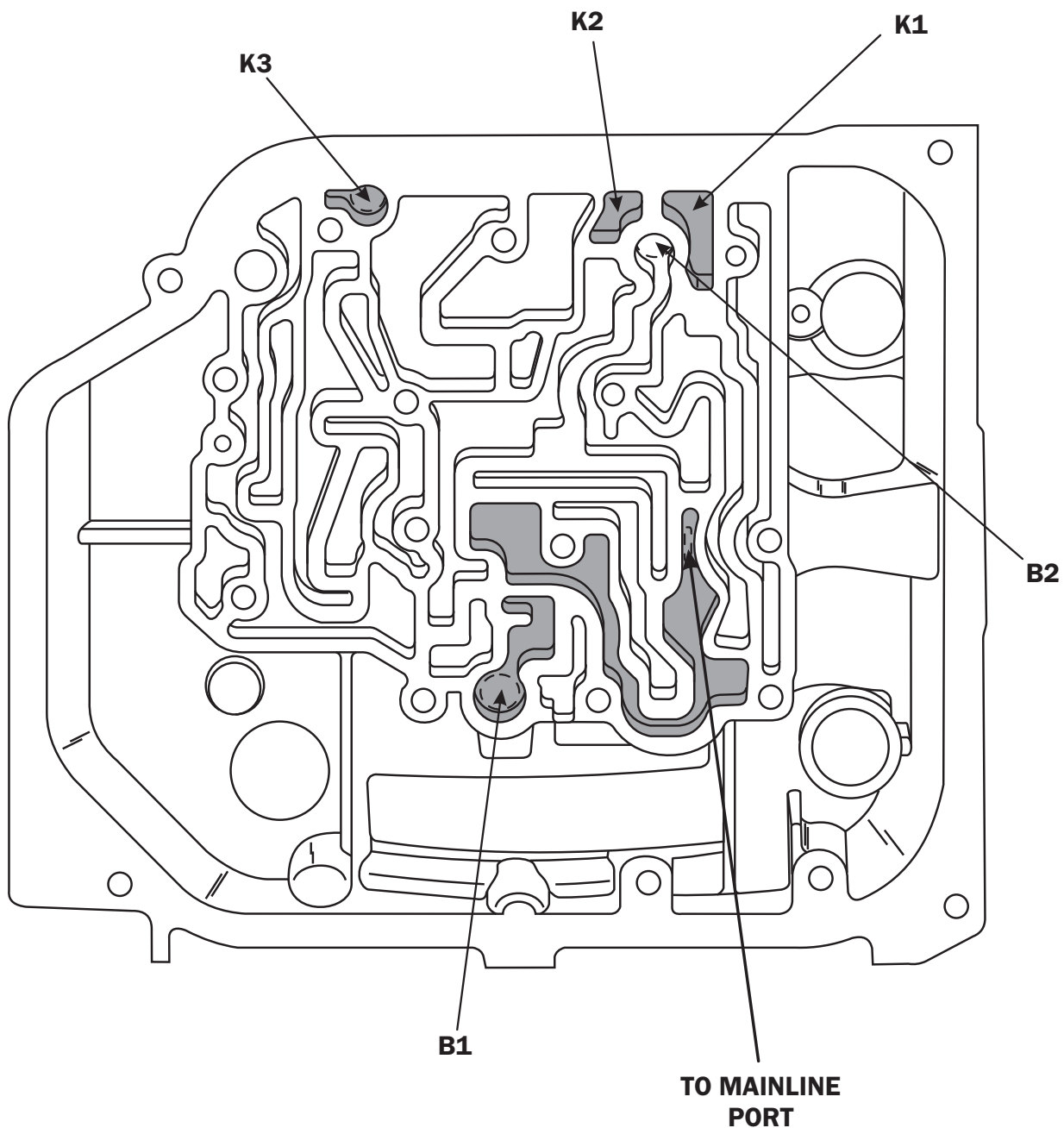
Copyright © 2011 ATSG

VW 010 / 003



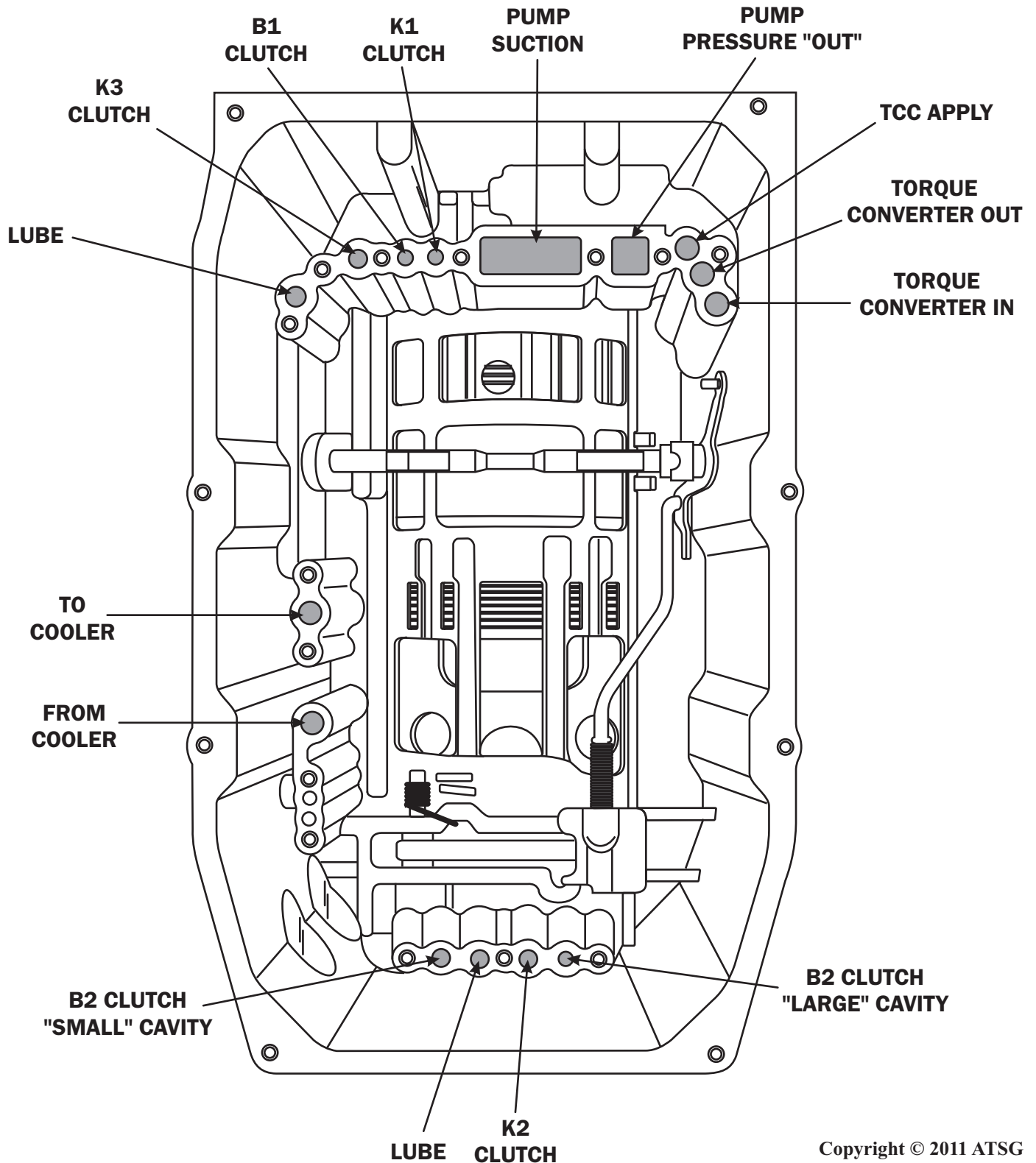
Copyright © 2011 ATSG

VW 01M



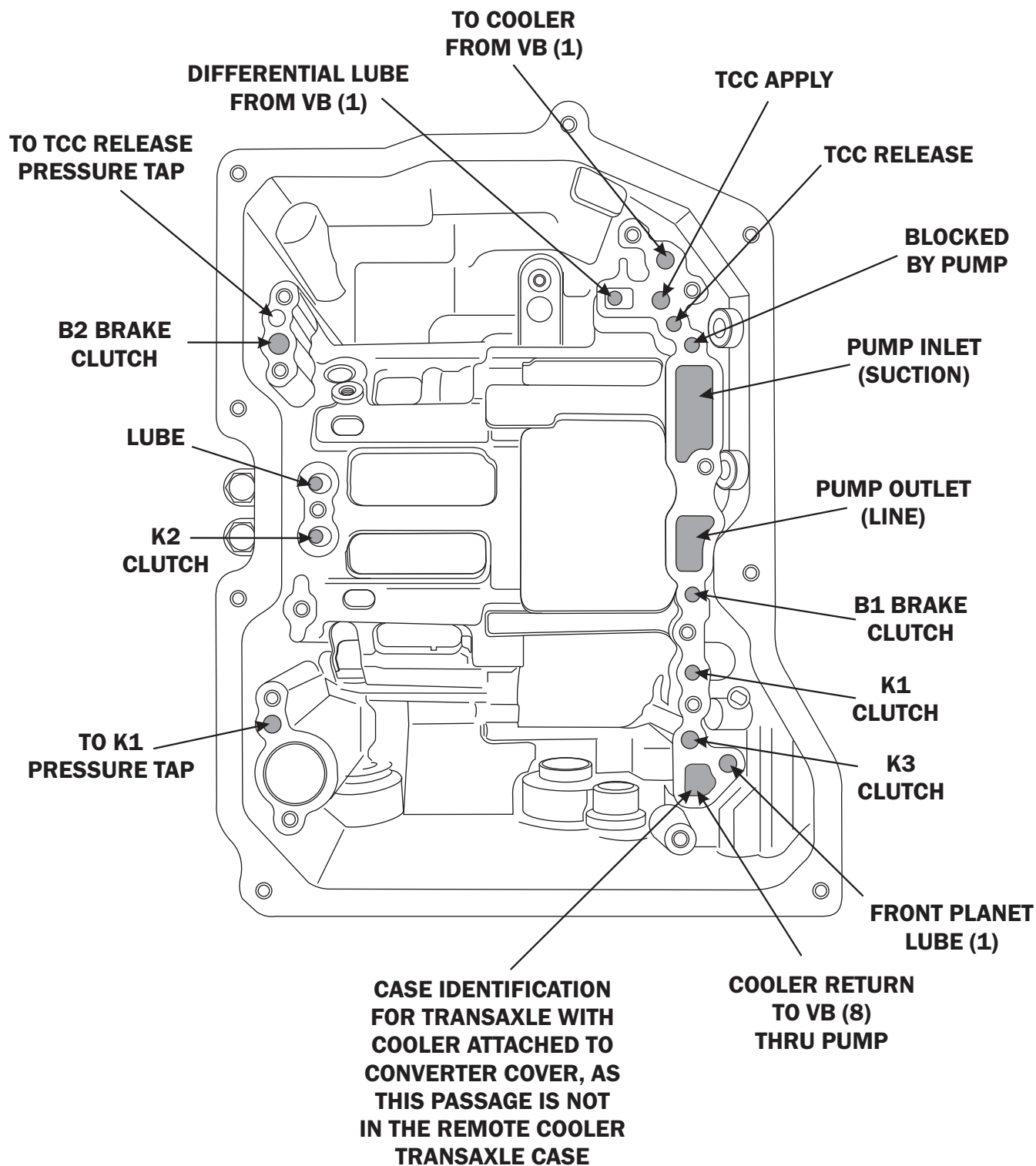
Copyright © 2011 ATSG

VW 09D



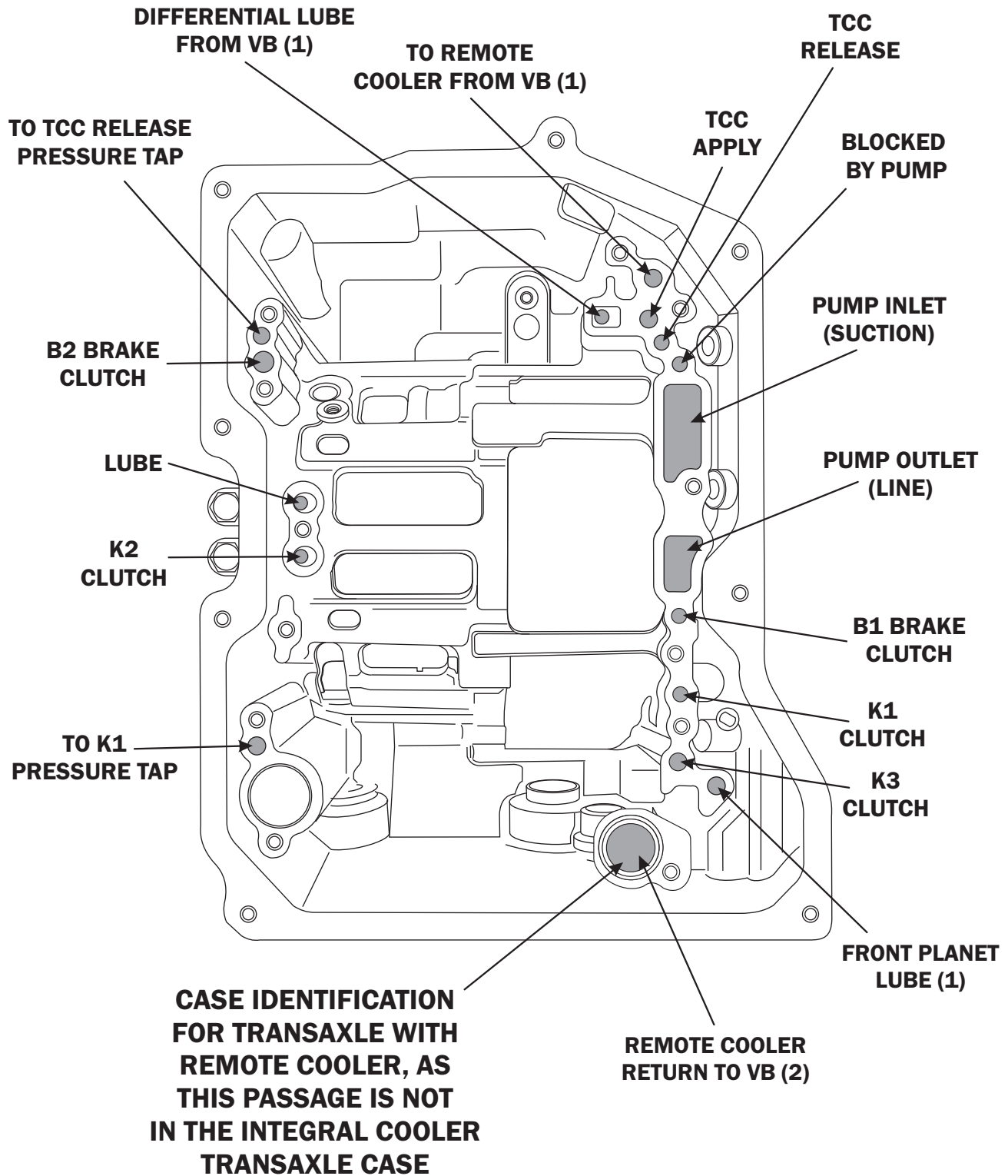
Copyright © 2011 ATSG

VW 09G WITH "INTEGRAL COOLER"



Copyright © 2011 ATSG

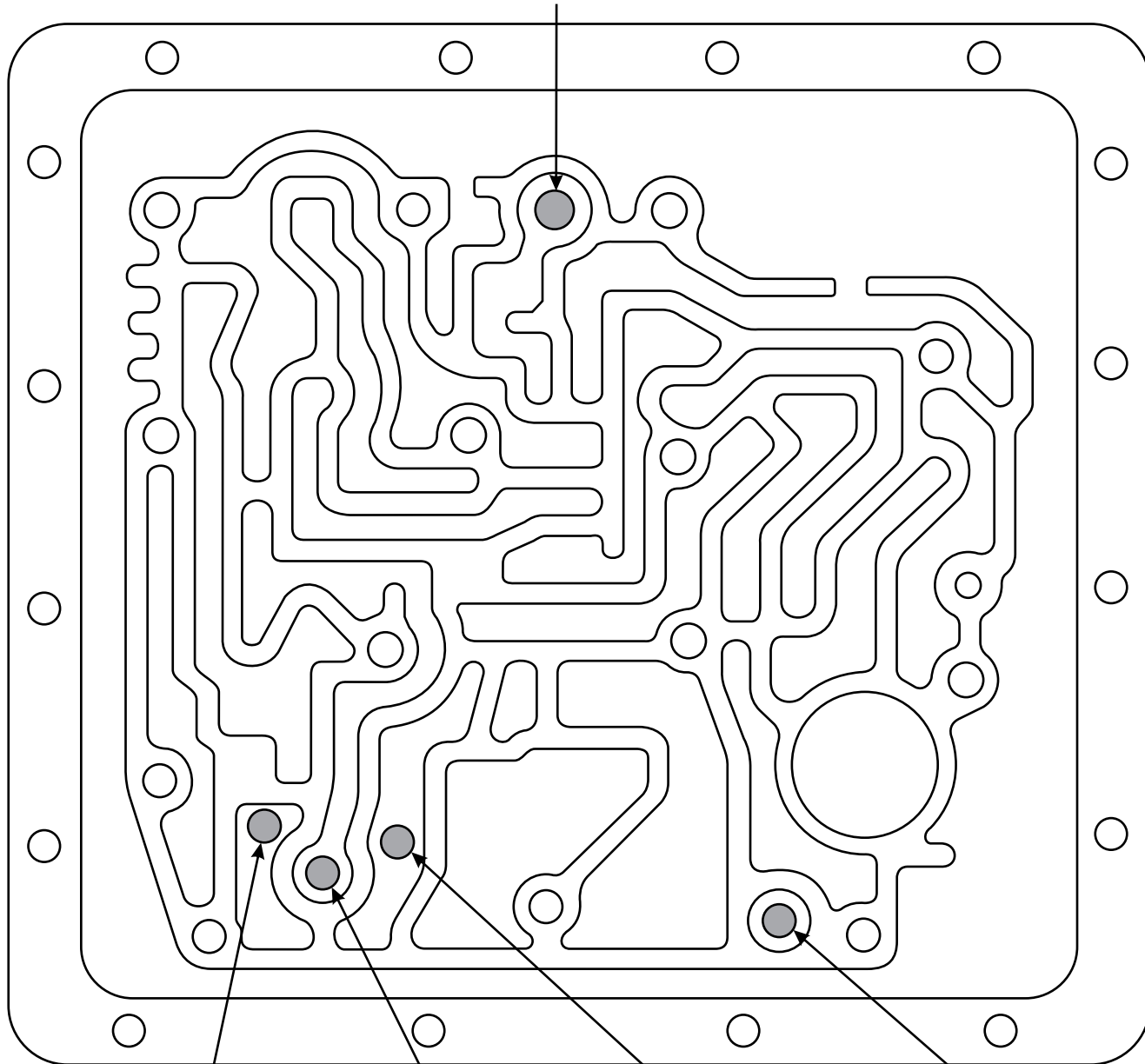
VW 09G WITH "REMOTE COOLER"



Copyright © 2011 ATSG

VW 096

**LOW / REVERSE CLUTCH
B1**



**FORWARD CLUTCH
K1**

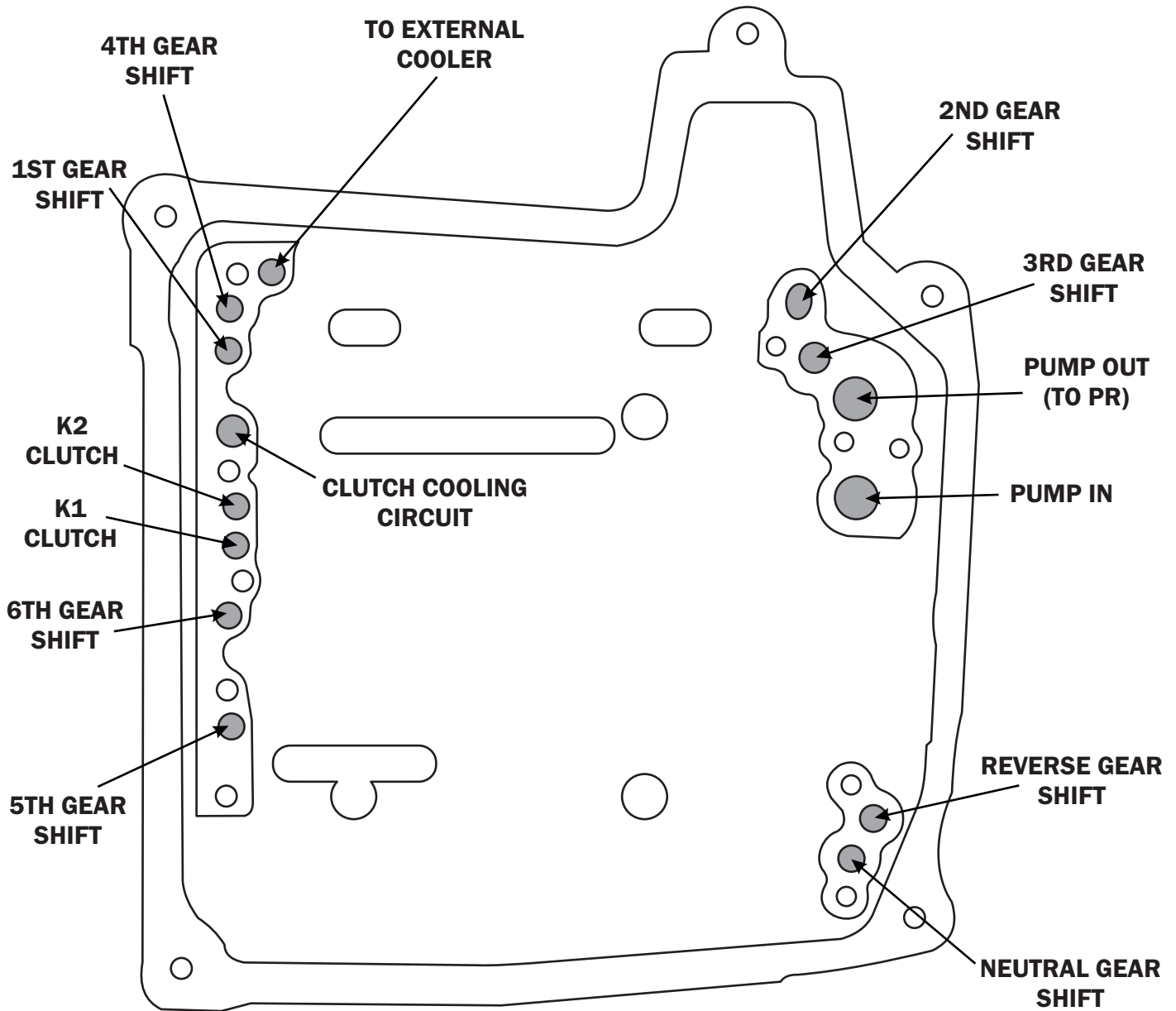
**2-4 CLUTCH
B2**

**HIGH/REVERSE
CLUTCH K2**

**4TH CLUTCH
K3**

Copyright © 2011 ATSG

VW DSG / 02E



Copyright © 2011 ATSG