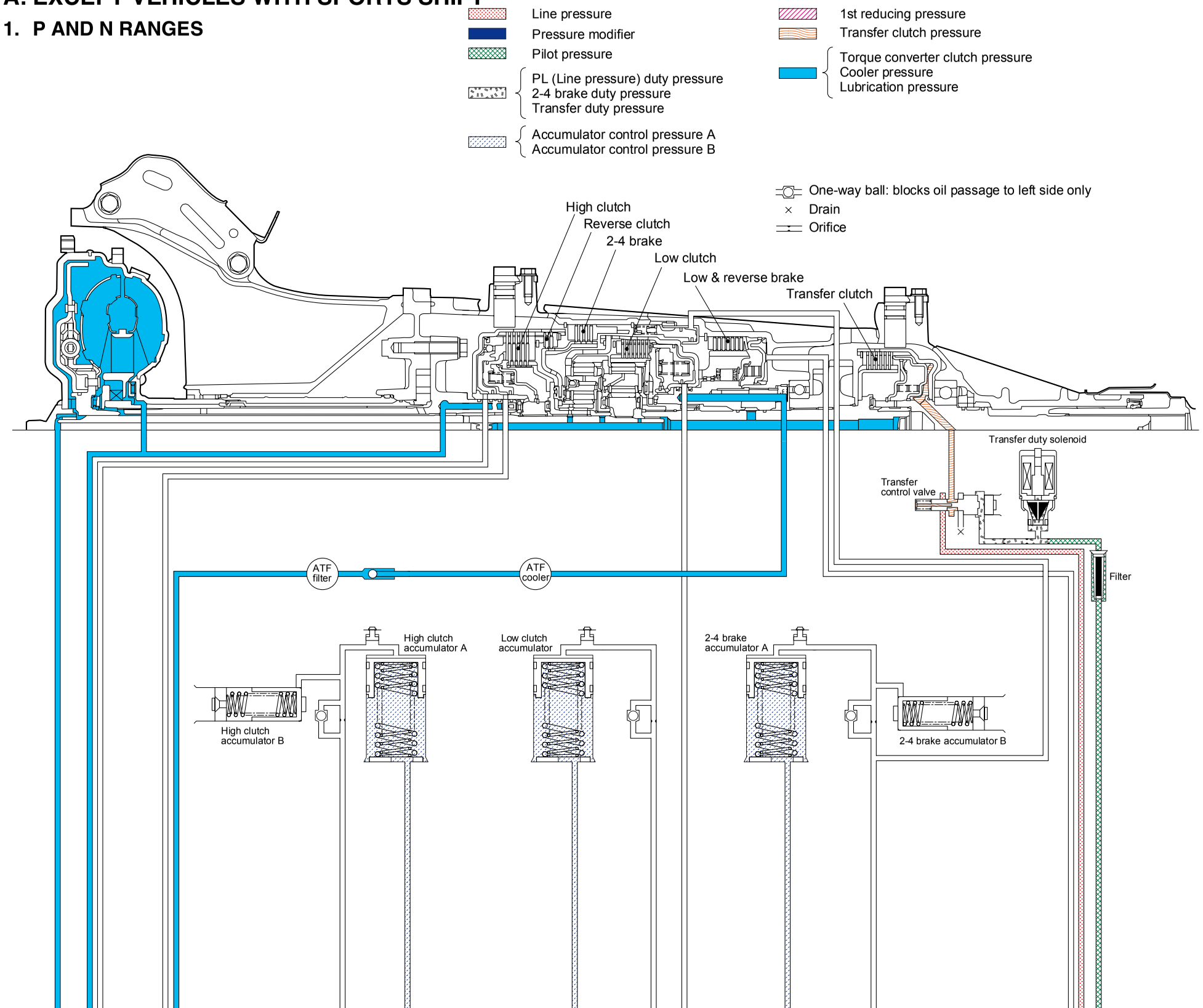
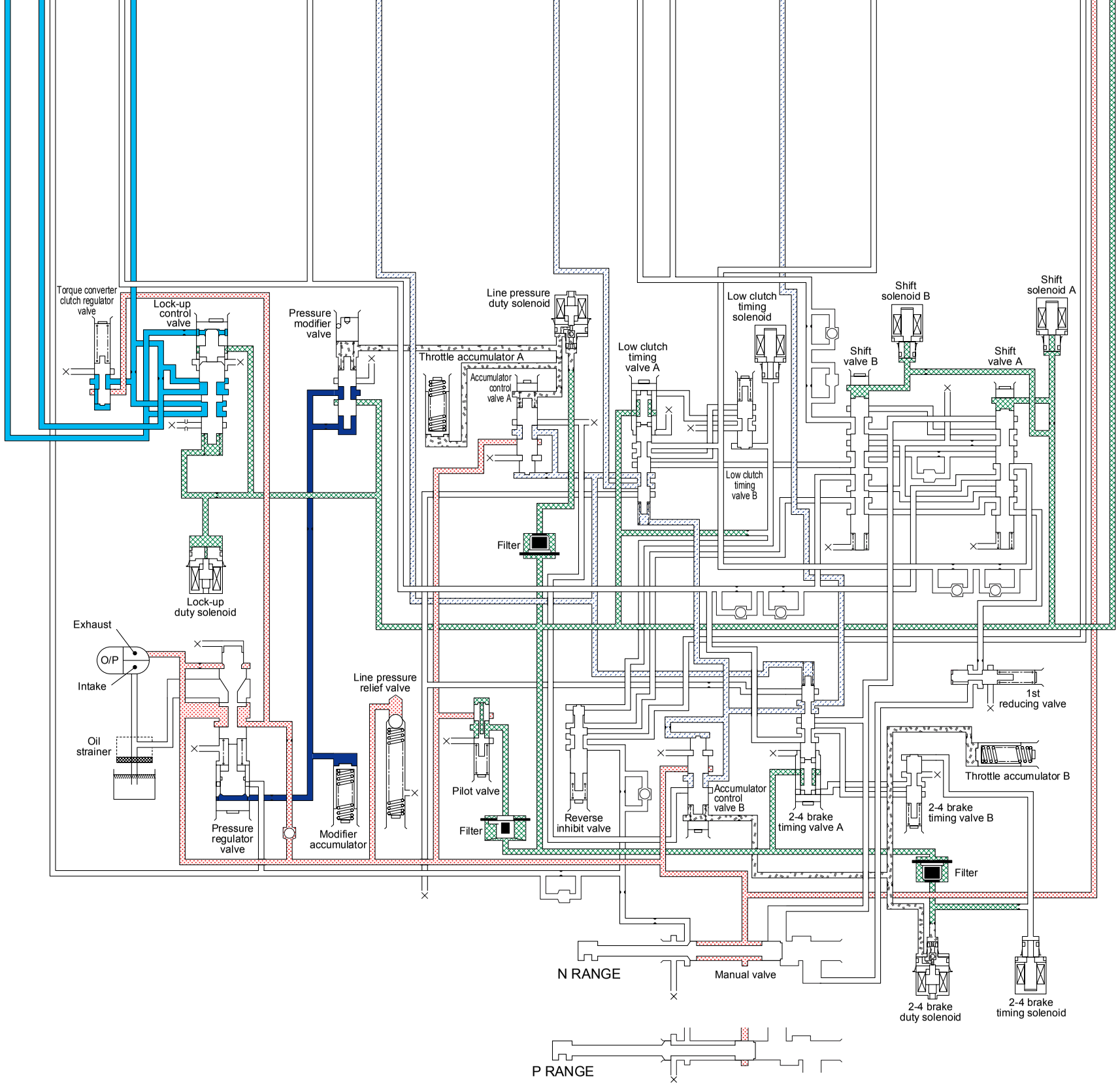
10.Schematic Drawings

A: EXCEPT VEHICLES WITH SPORTS SHIFT

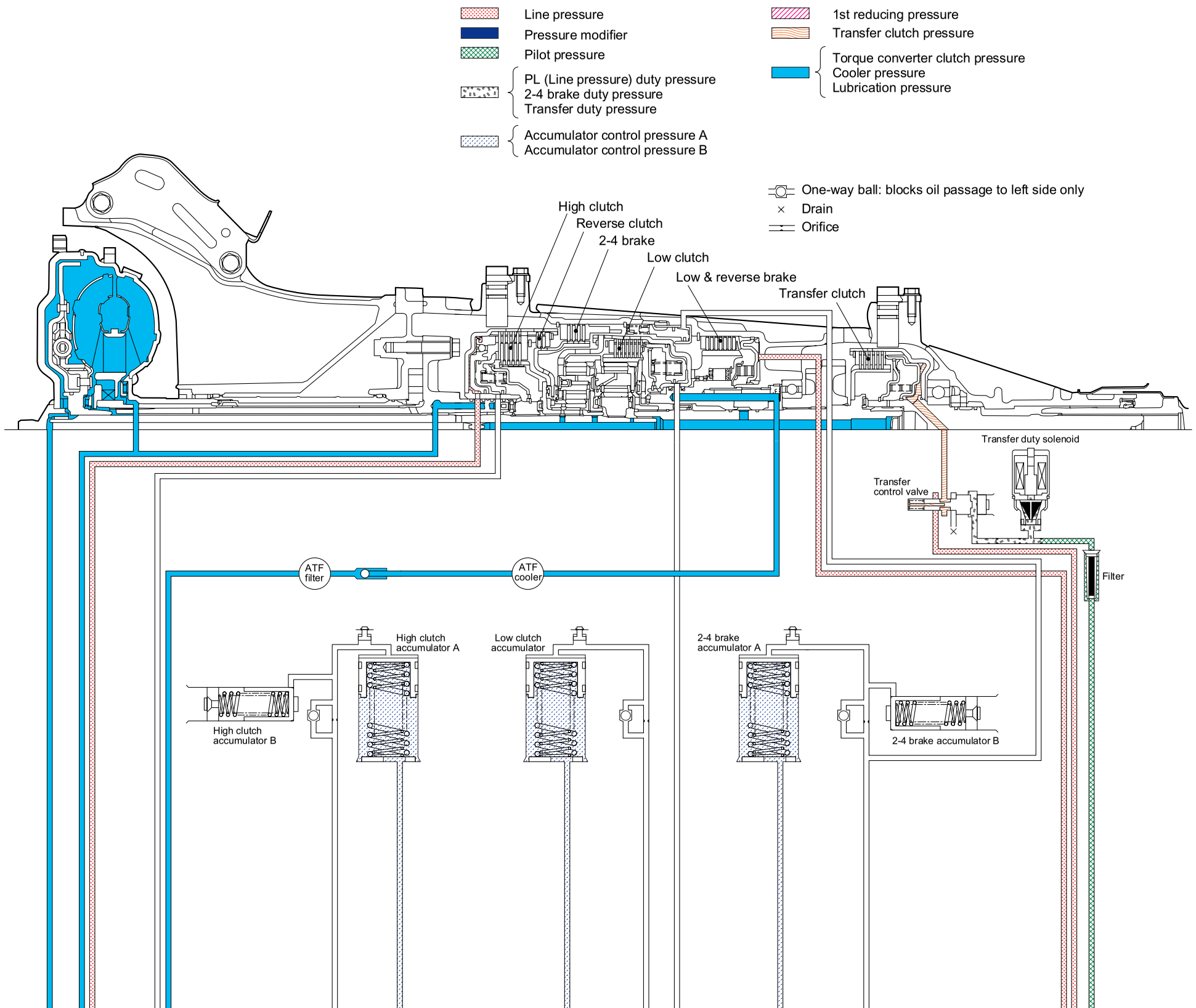
1. P AND N RANGES

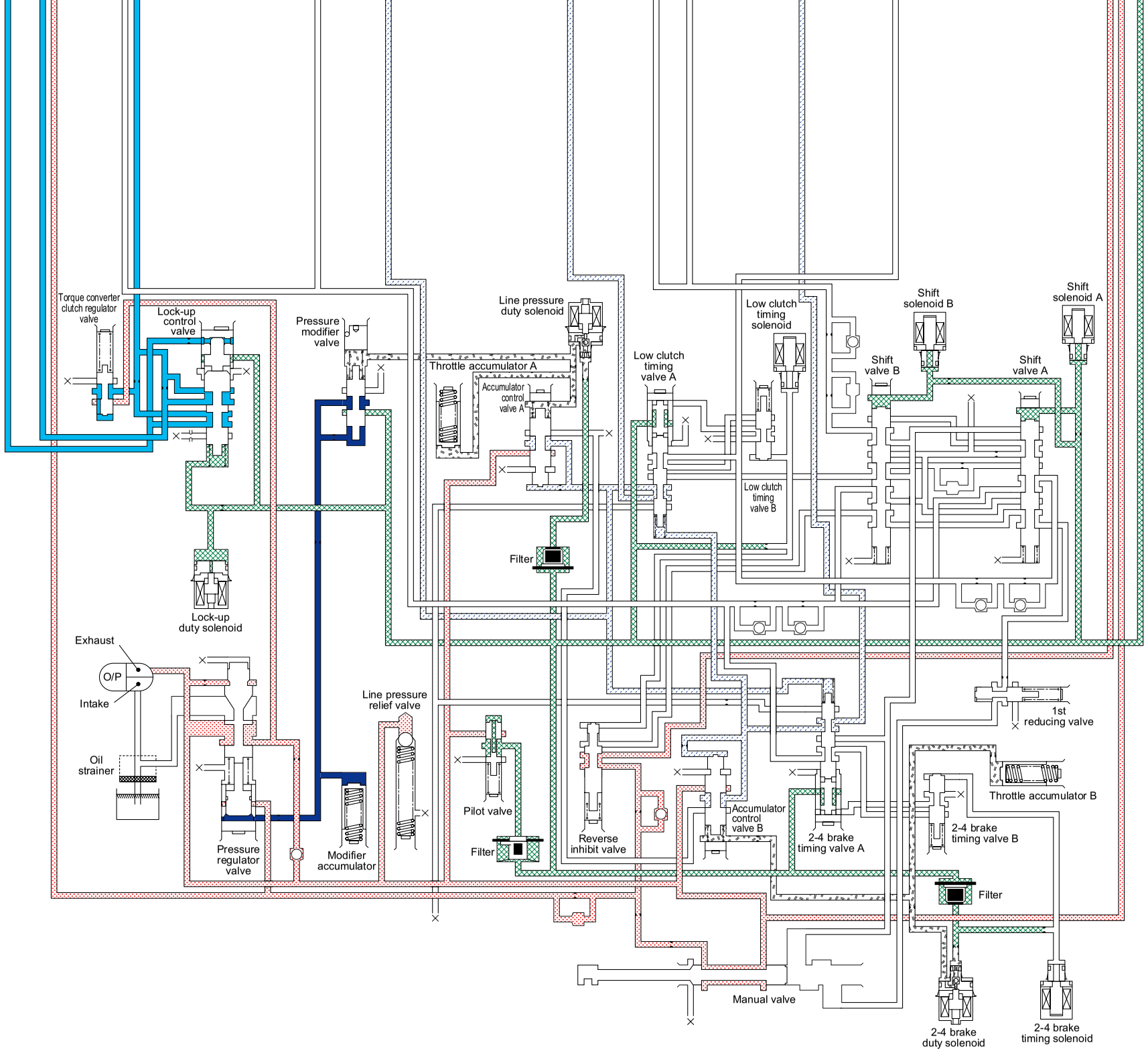



Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Shift solenoid B
Shift solenoid A
Shift valve B
Shift valve A
Low clutch timing valve B
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Line pressure relief valve
1st reducing valve
Throttle accumulator B
Pilot valve
Filter
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
2-4 brake timing valve B
Pressure regulator valve
Modifier accumulator
Filter
N RANGE
Manual valve
2-4 brake duty solenoid
2-4 brake timing solenoid
P RANGE

AT-00492

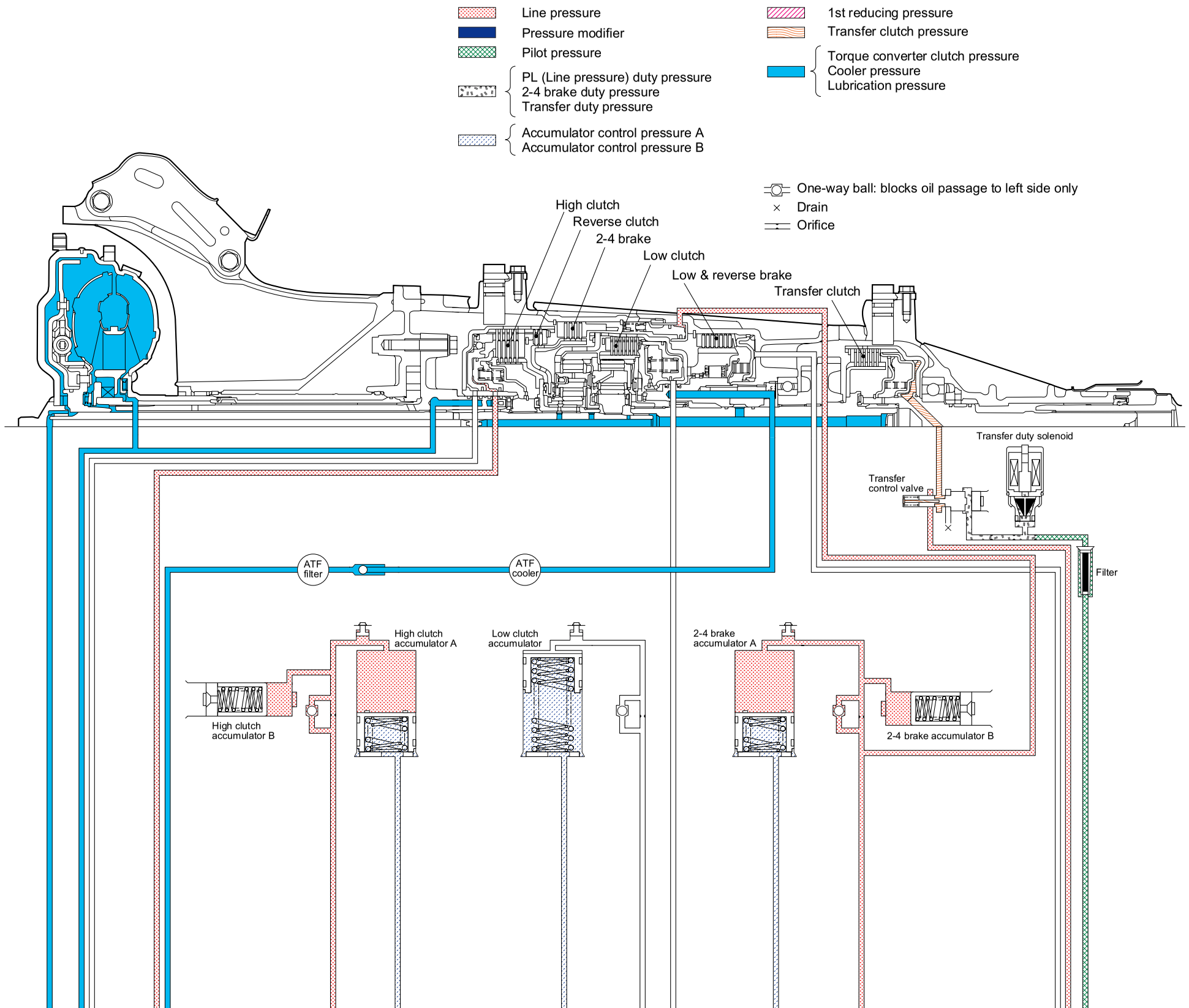
2. R RANGE

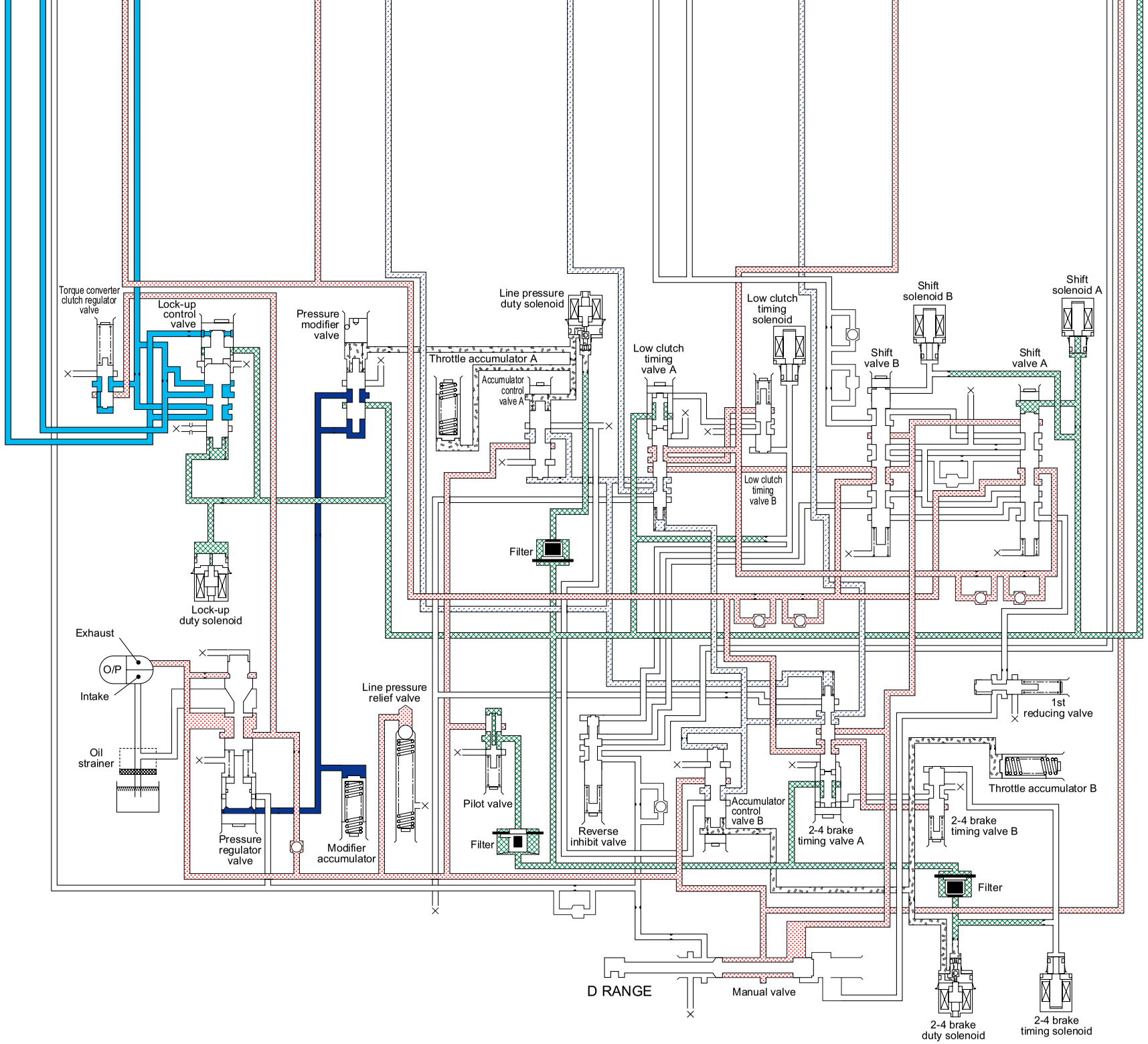

Line pressure
Pressure modifier
Pilot pressure
PL (Line pressure) duty pressure
2-4 brake duty pressure
Transfer duty pressure
Accumulator control pressure A
Accumulator control pressure B
1st reducing pressure
Transfer clutch pressure
Torque converter clutch pressure
Cooler pressure
Lubrication pressure
One-way ball: blocks oil passage to left side only
Drain
Orifice
High clutch
Reverse clutch
2-4 brake
Low clutch
Low & reverse brake
Transfer clutch
Transfer duty solenoid
Transfer control valve
Filter
ATF filter
ATF cooler
High clutch accumulator A
Low clutch accumulator
2-4 brake accumulator A
High clutch accumulator B
2-4 brake accumulator B


Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Shift solenoid B
Shift solenoid A
Shift valve B
Shift valve A
Low clutch timing valve B
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Line pressure relief valve
1st reducing valve
Throttle accumulator B
Pilot valve
Filter
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
2-4 brake timing valve B
Pressure regulator valve
Modifier accumulator
Filter
Manual valve
2-4 brake duty solenoid
2-4 brake timing solenoid

AT-00493

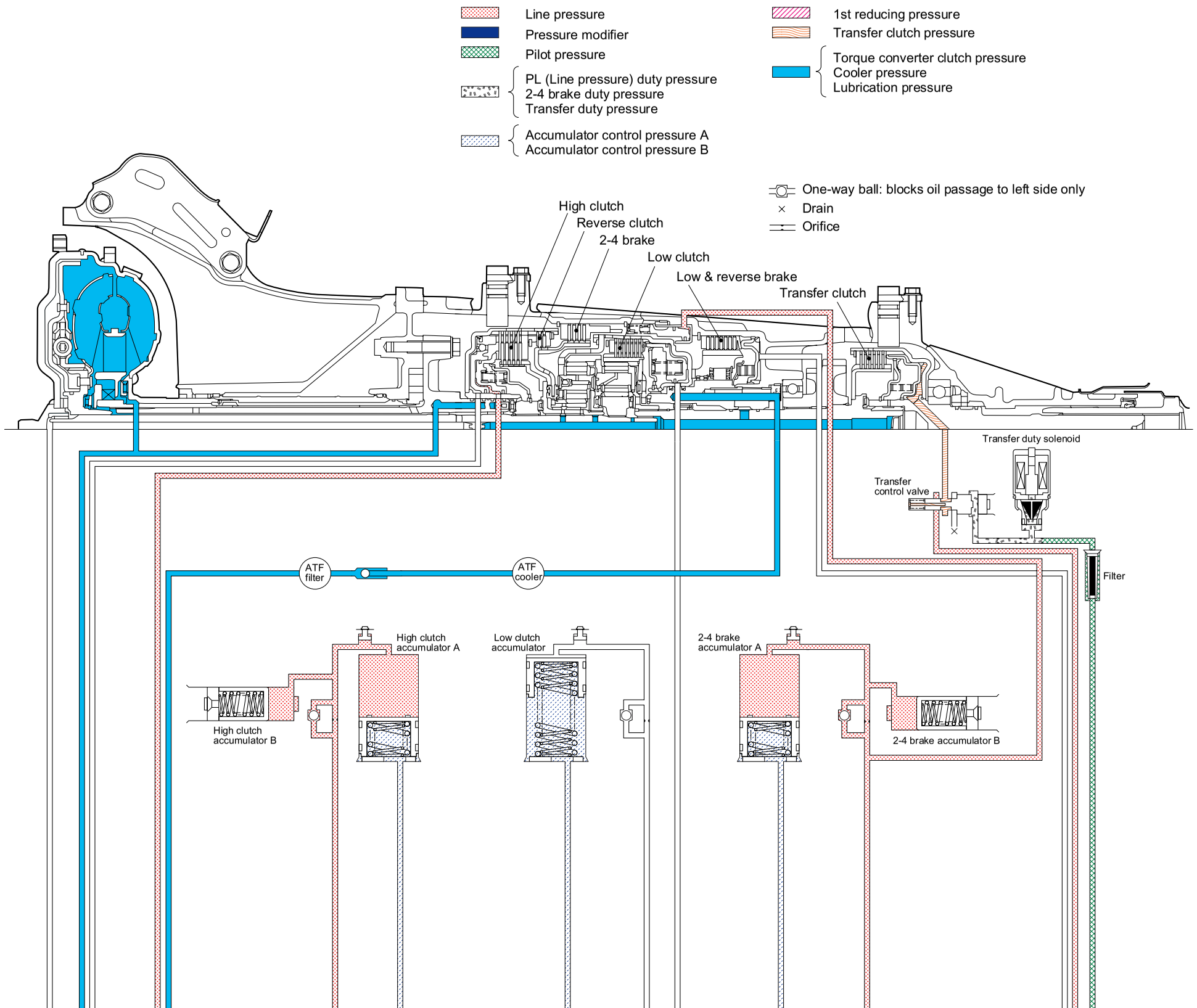
3. 4TH SPEED GEAR OF D RANGE (LOCK-UP OFF)

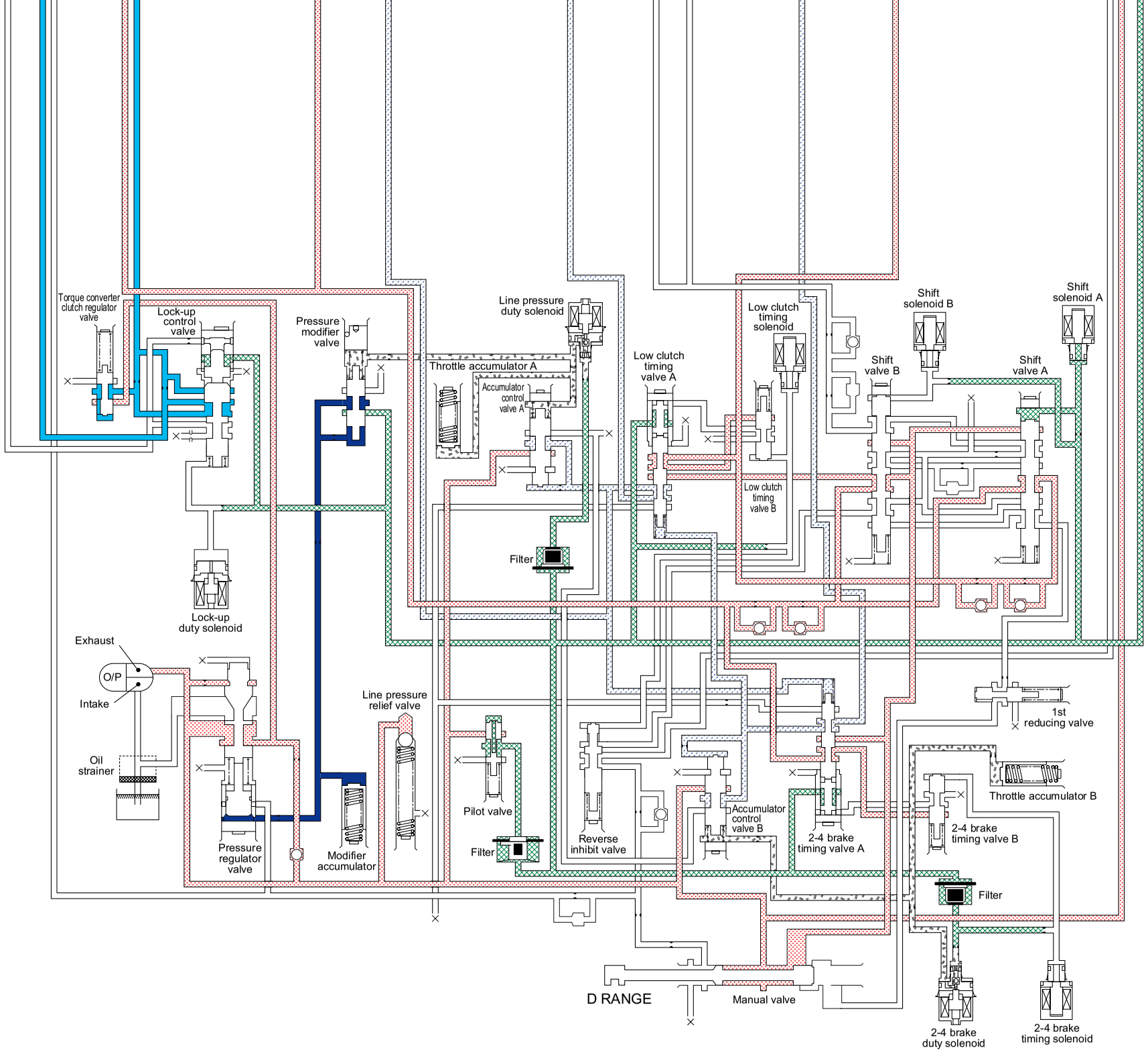



Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Shift solenoid B
Shift solenoid A
Shift valve B
Shift valve A
Low clutch timing valve B
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Line pressure relief valve
Pilot valve
Filter
Pressure regulator valve
Modifier accumulator
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
1st reducing valve
Throttle accumulator B
2-4 brake timing valve B
Filter
D RANGE
Manual valve
2-4 brake duty solenoid
2-4 brake timing solenoid

AT-00494

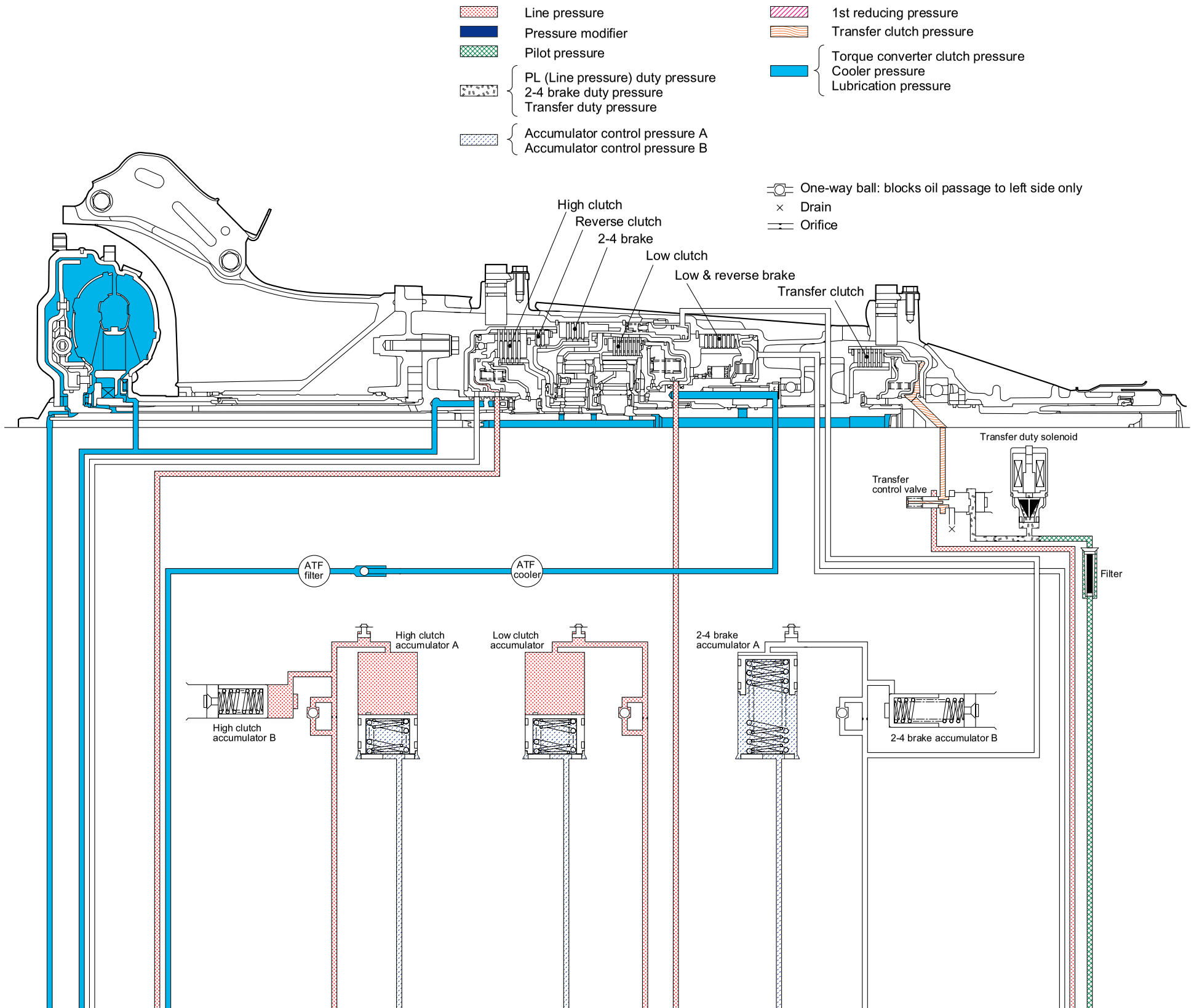
4. 4TH SPEED GEAR OF D RANGE (LOCK-UP ON)

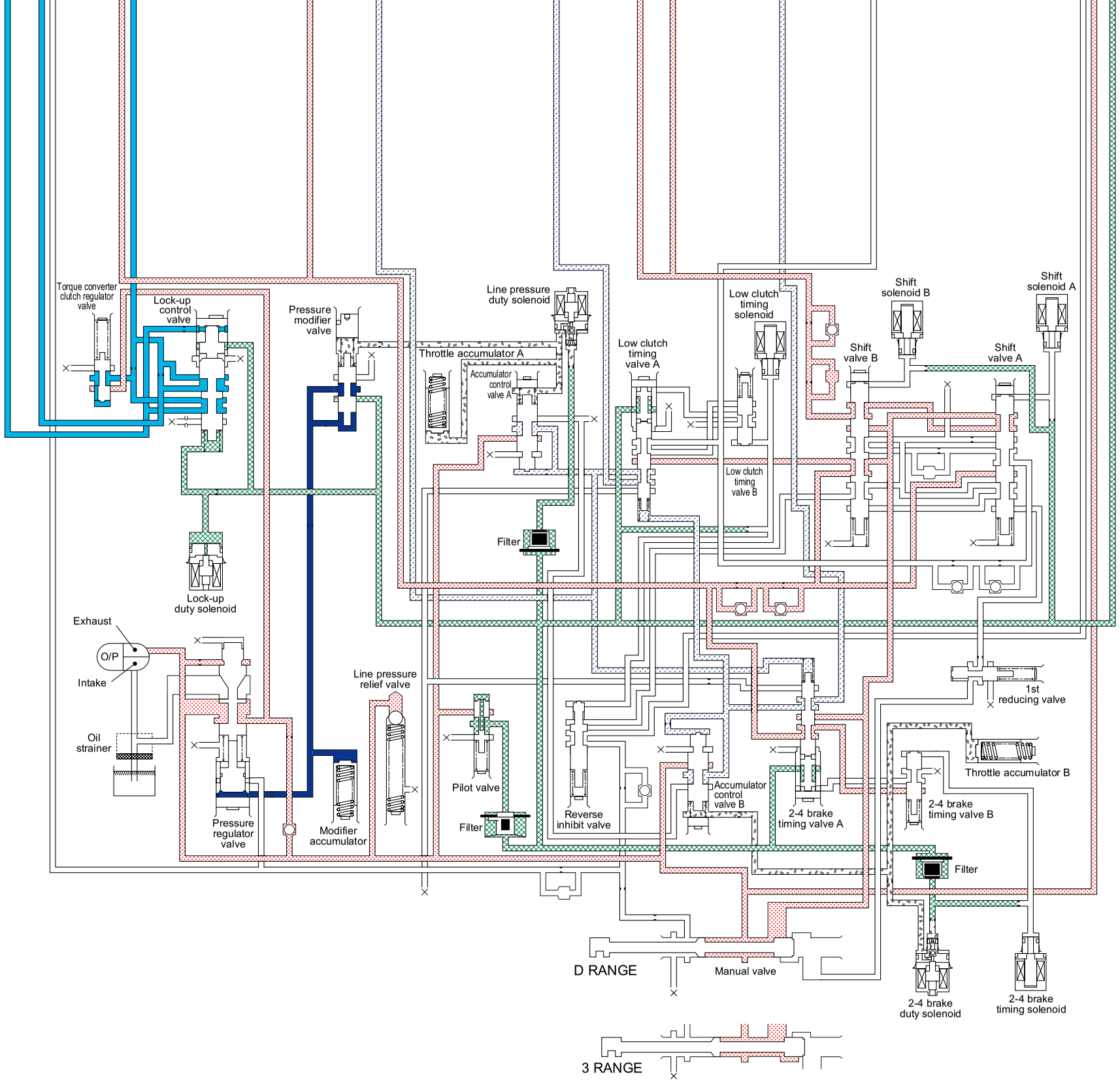



Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Low clutch timing valve B
Shift solenoid B
Shift valve B
Shift valve A
Shift solenoid A
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Pressure regulator valve
Modifier accumulator
Line pressure relief valve
Pilot valve
Filter
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
1st reducing valve
Throttle accumulator B
2-4 brake timing valve B
Filter
D RANGE
Manual valve
2-4 brake duty solenoid
2-4 brake timing solenoid

AT-00495

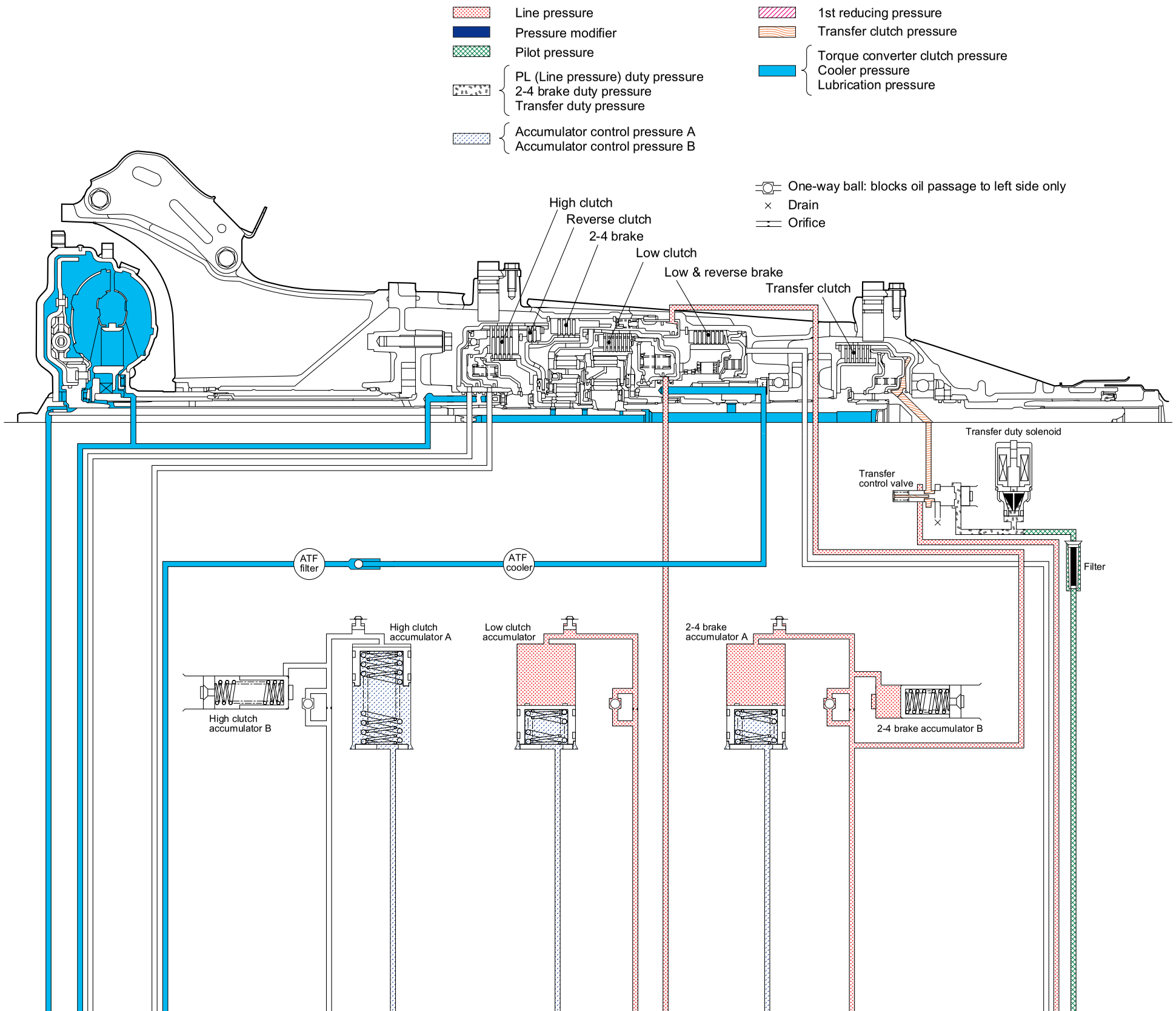
5. 3RD SPEED GEAR OF D AND 3 RANGES

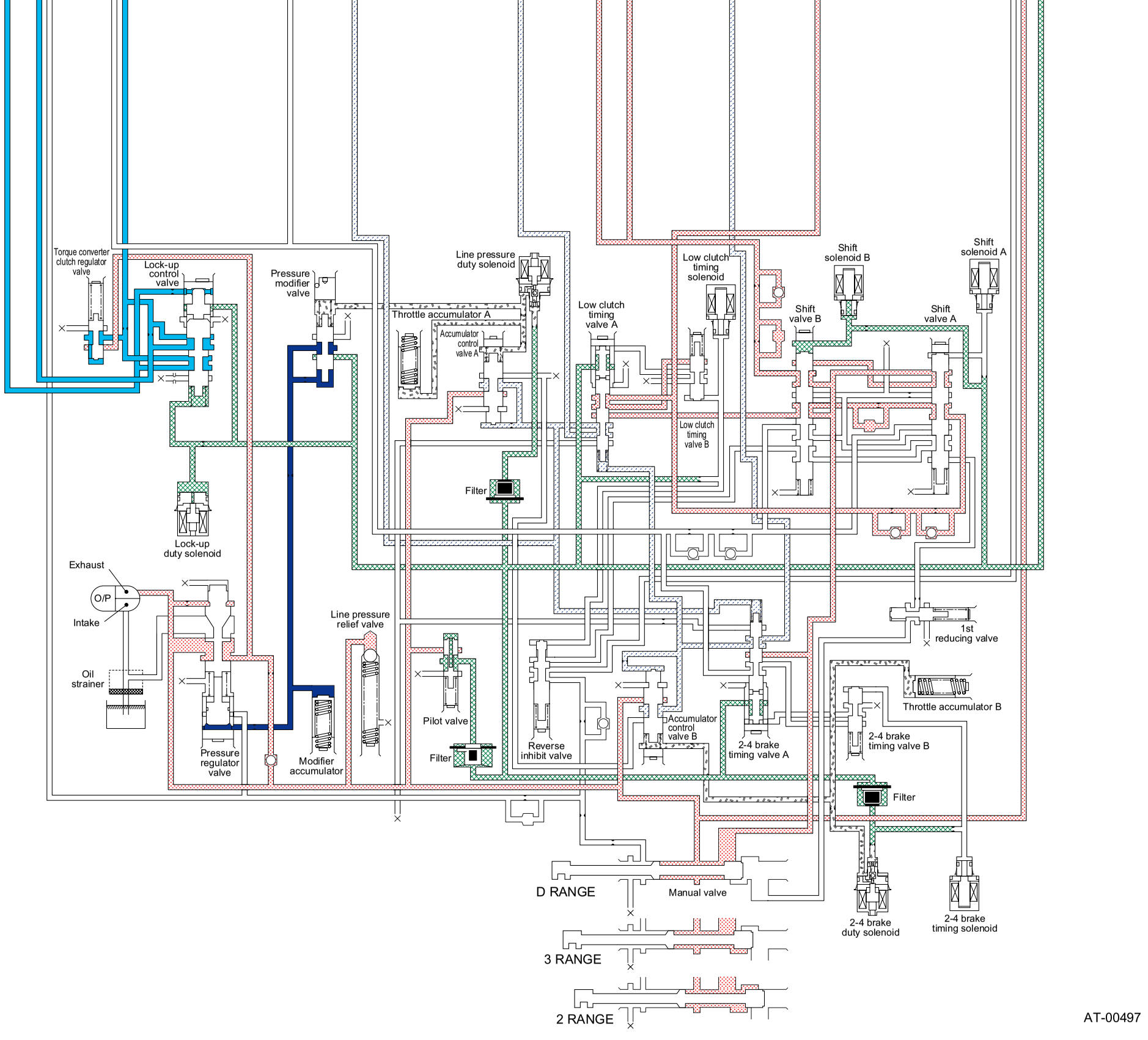



Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Low clutch timing valve B
Shift solenoid B
Shift solenoid A
Shift valve B
Shift valve A
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Pressure regulator valve
Modifier accumulator
Line pressure relief valve
Pilot valve
Filter
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
1st reducing valve
Throttle accumulator B
2-4 brake timing valve B
Filter
D RANGE
Manual valve
3 RANGE
2-4 brake duty solenoid
2-4 brake timing solenoid

AT-00496

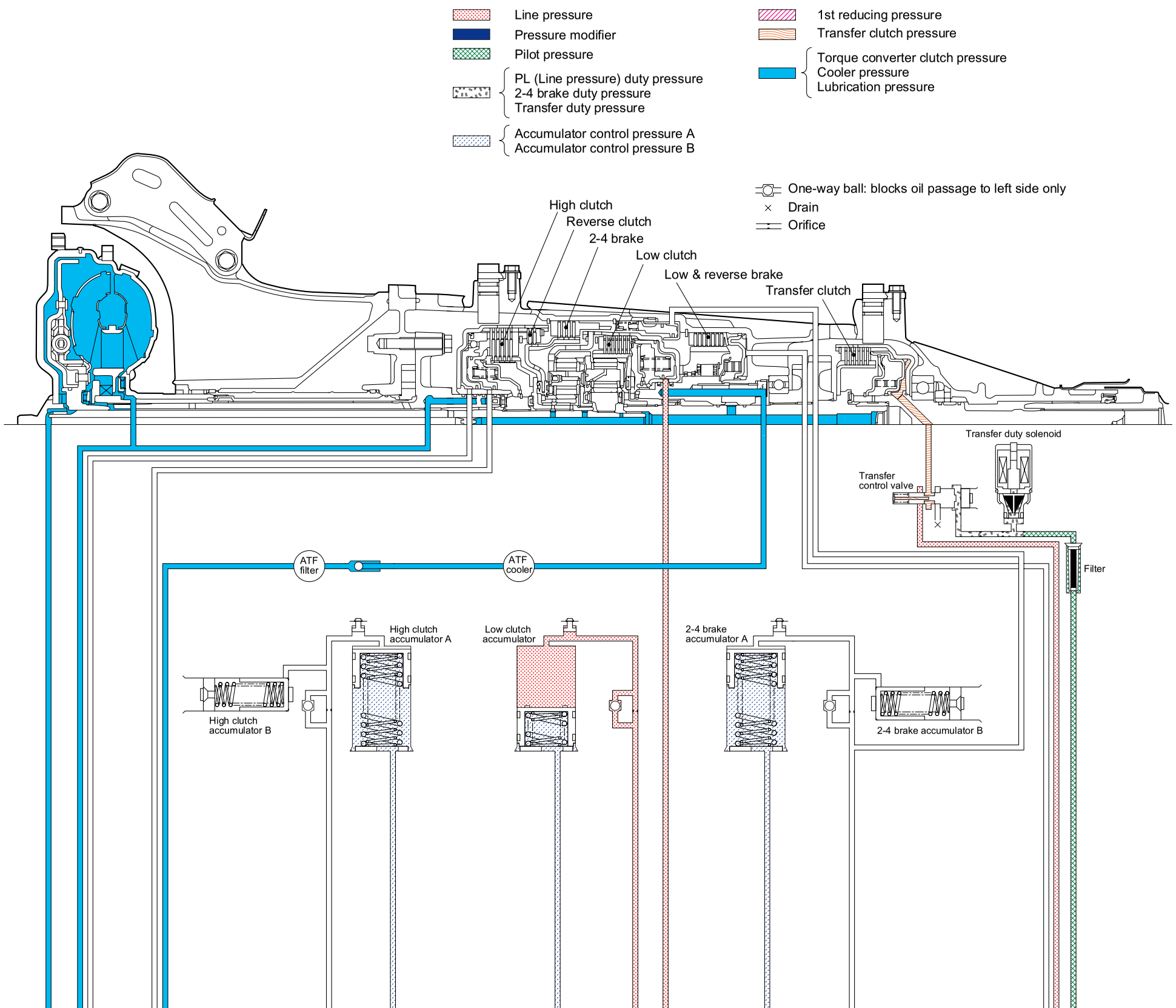
6. 2ND SPEED GEAR OF D, 3 AND 2 RANGES

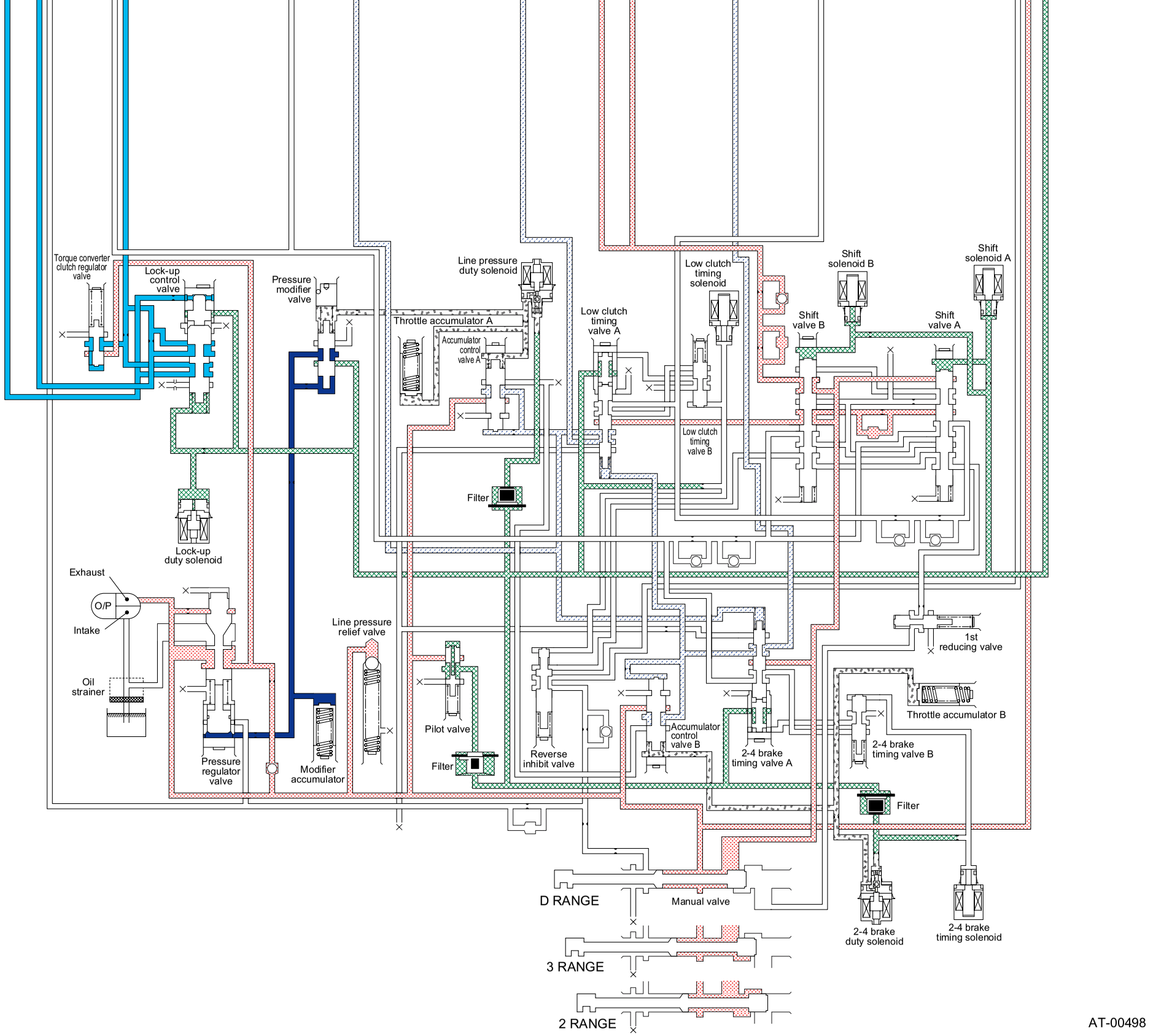



Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Shift solenoid B
Shift solenoid A
Shift valve B
Shift valve A
Low clutch timing valve B
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Line pressure relief valve
Pilot valve
Filter
Pressure regulator valve
Modifier accumulator
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
1st reducing valve
Throttle accumulator B
2-4 brake timing valve B
Filter
D RANGE
Manual valve
3 RANGE
2 RANGE
2-4 brake duty solenoid
2-4 brake timing solenoid

AT-00497

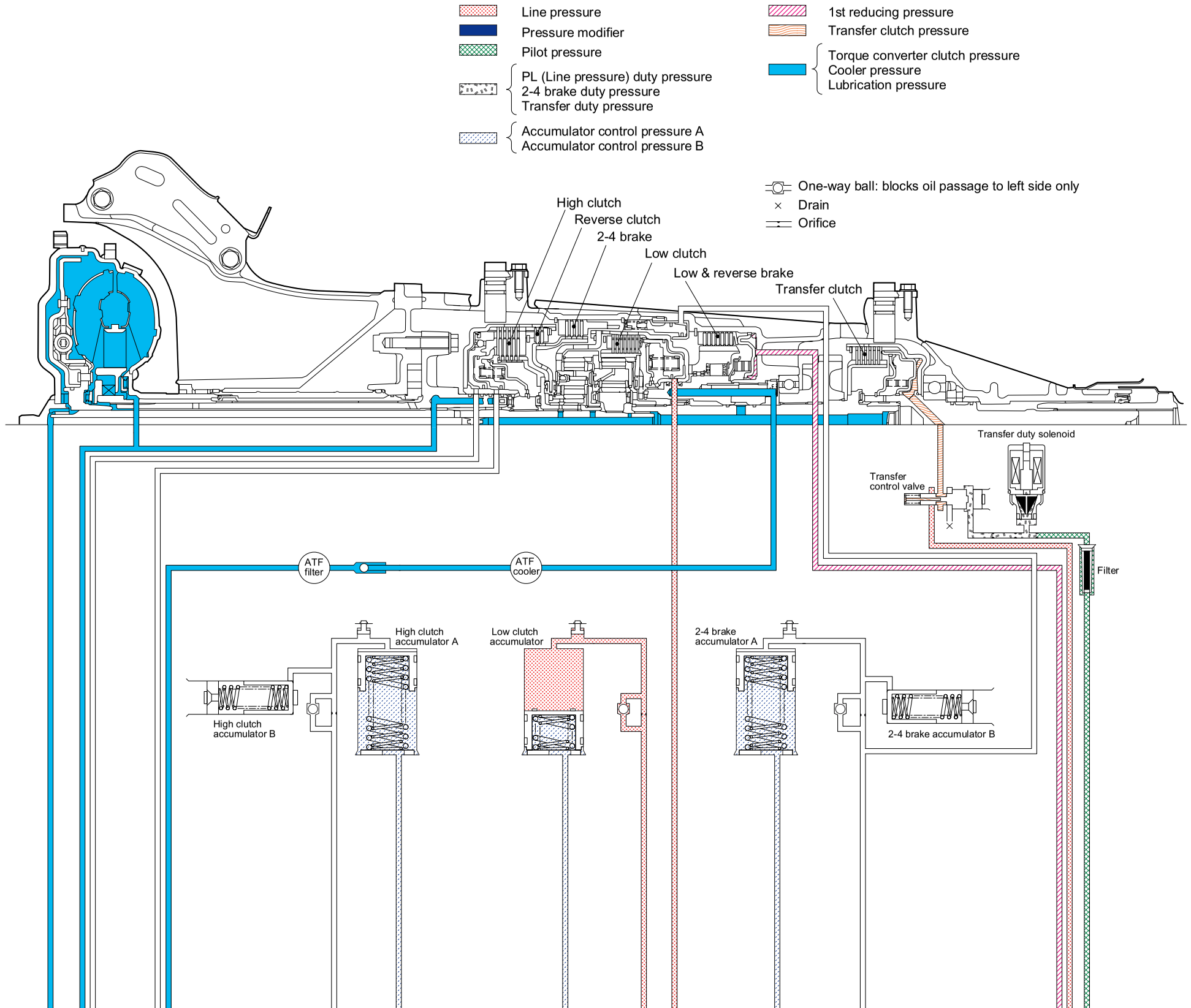
7. 1ST SPEED GEAR OF D AND 3 RANGES

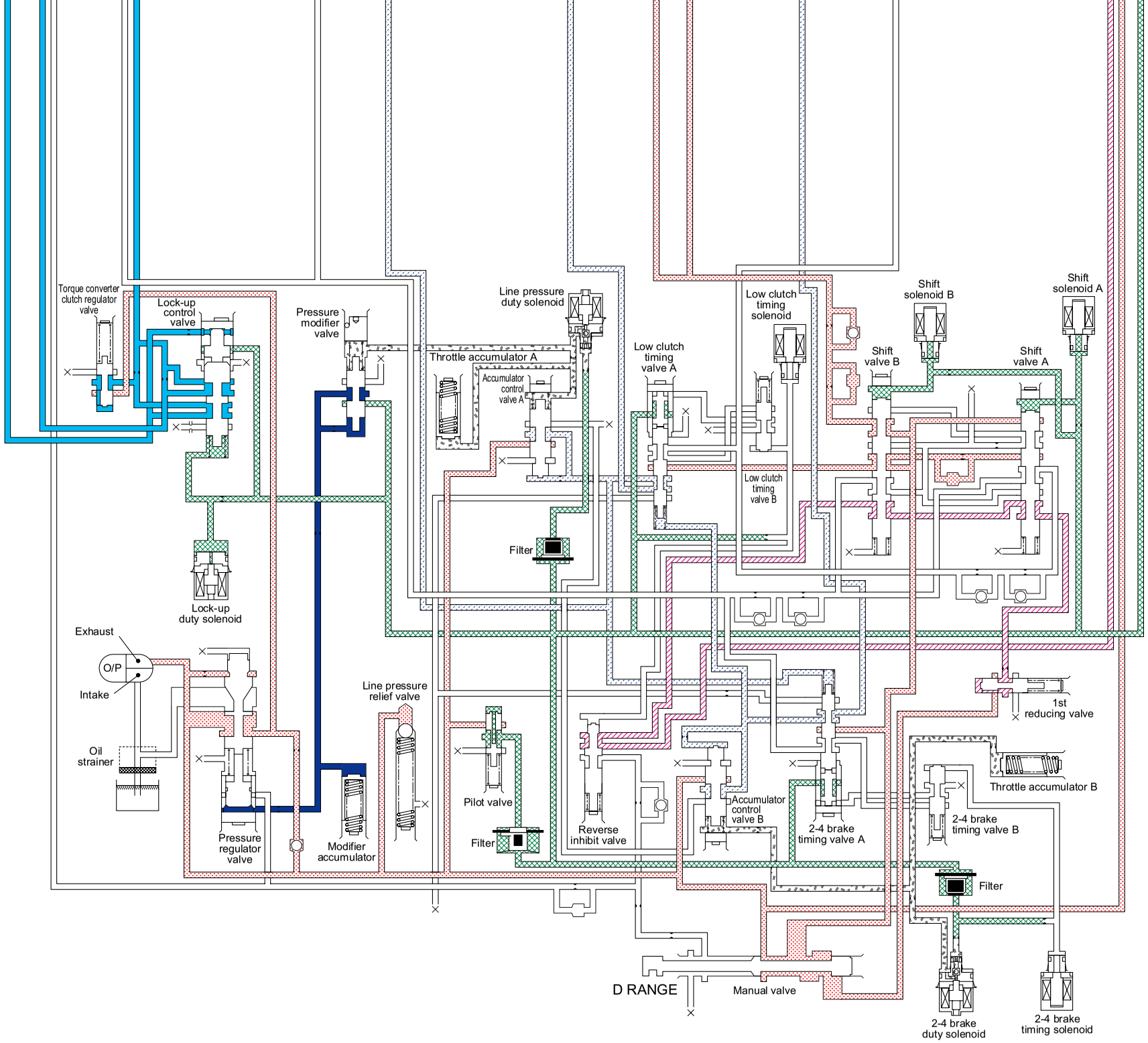



Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Shift solenoid B
Shift solenoid A
Shift valve B
Shift valve A
Low clutch timing valve B
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Line pressure relief valve
Pilot valve
Filter
Pressure regulator valve
Modifier accumulator
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
1st reducing valve
Throttle accumulator B
2-4 brake timing valve B
Filter
D RANGE
Manual valve
3 RANGE
2 RANGE
2-4 brake duty solenoid
2-4 brake timing solenoid

AT-00498

8. 1ST SPEED GEAR OF 1 RANGE

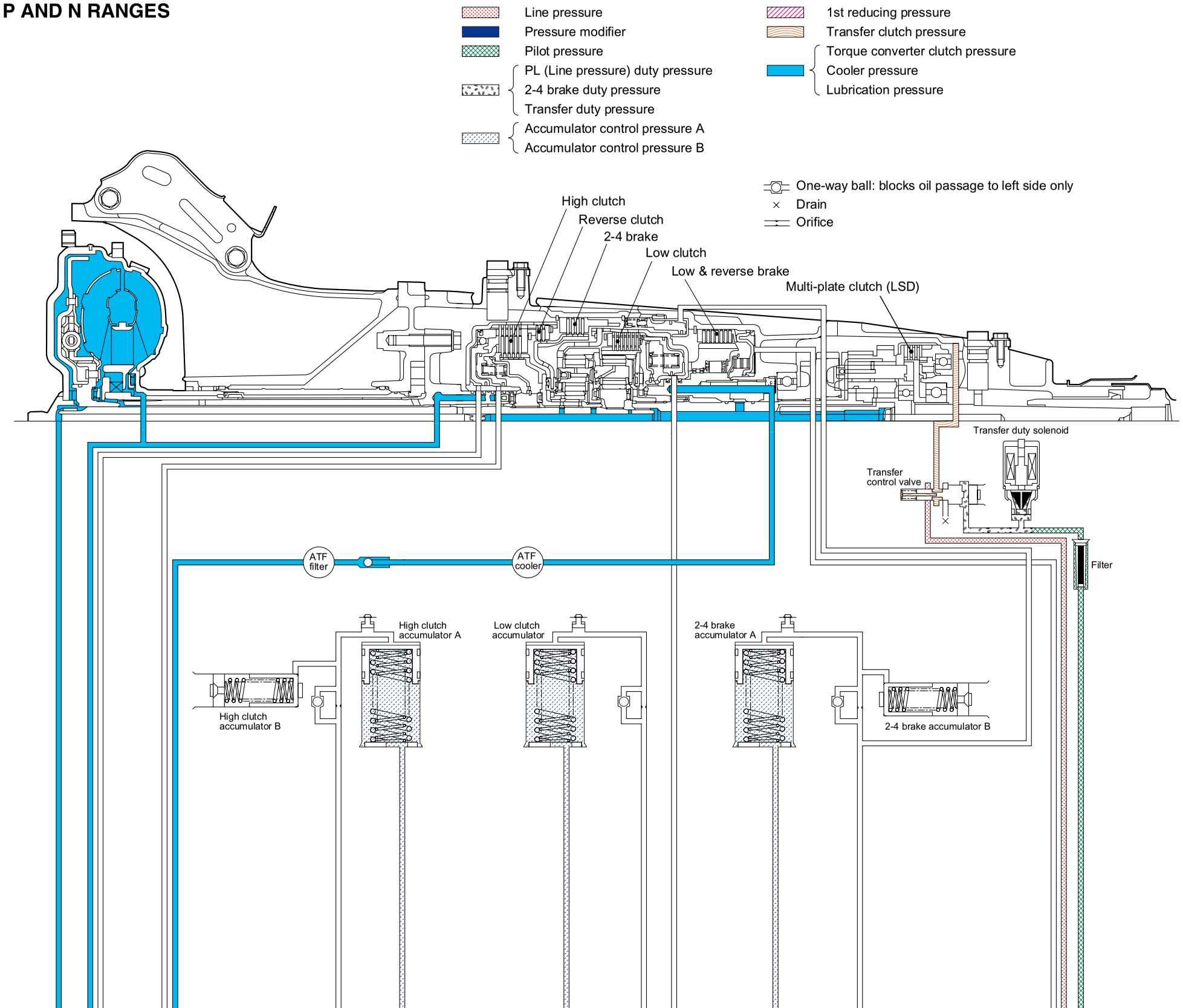


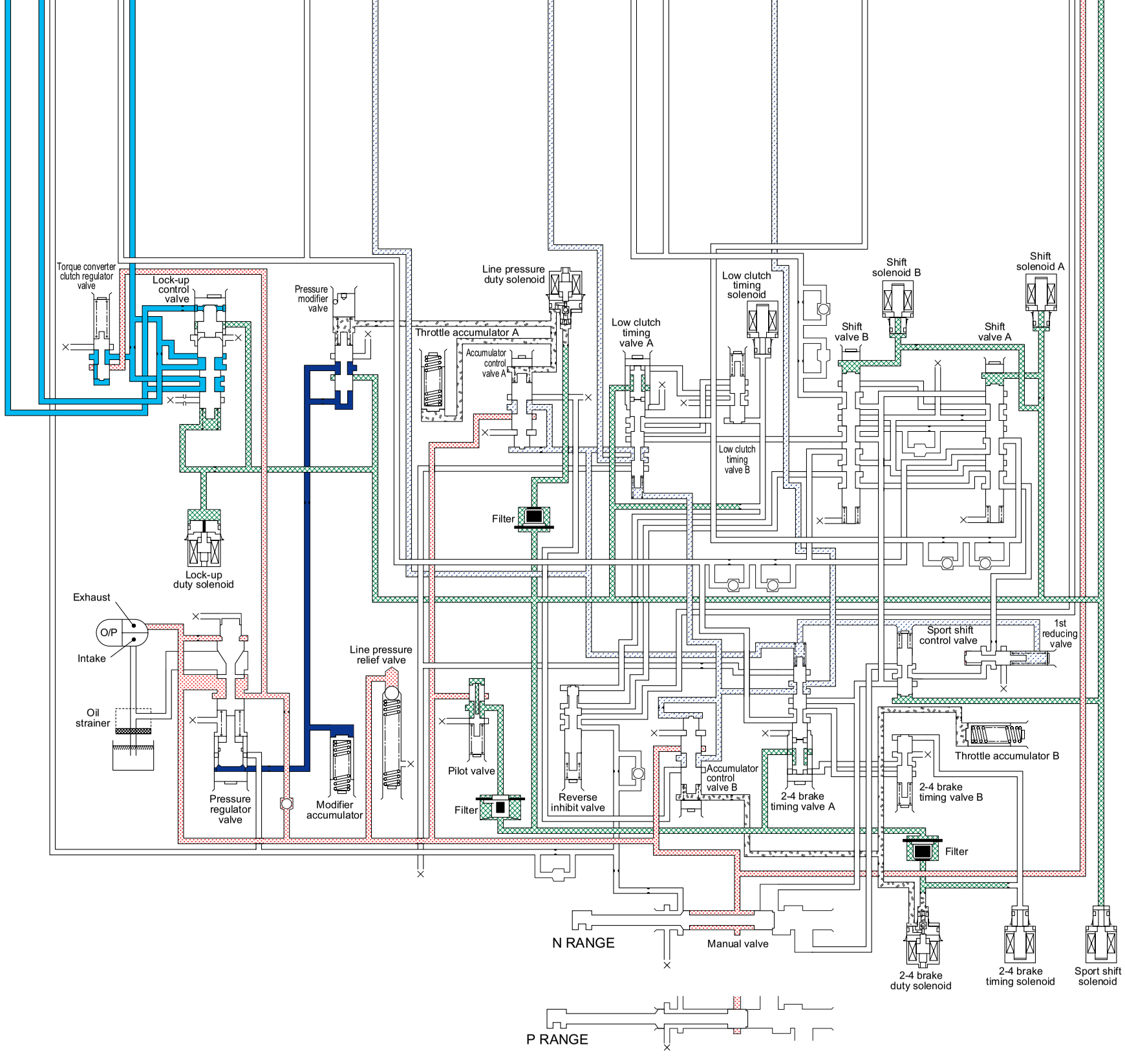

Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Shift solenoid B
Shift solenoid A
Shift valve B
Shift valve A
Low clutch timing valve B
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Line pressure relief valve
Pilot valve
Filter
Pressure regulator valve
Modifier accumulator
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
1st reducing valve
Throttle accumulator B
2-4 brake timing valve B
Filter
D RANGE
Manual valve
2-4 brake duty solenoid
2-4 brake timing solenoid

AT-00499

B: VEHICLES WITH SPORTS SHIFT

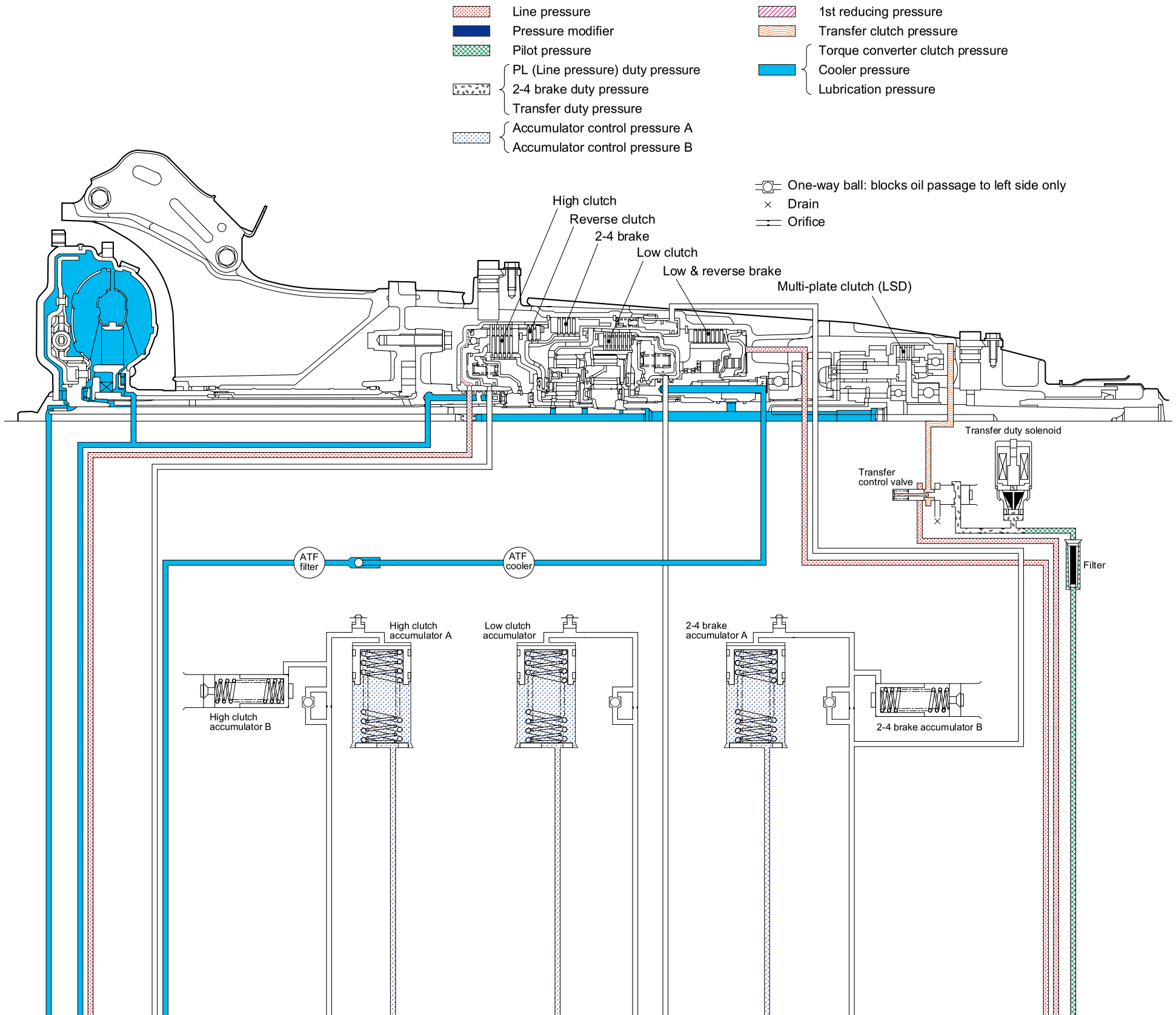
1. P AND N RANGES

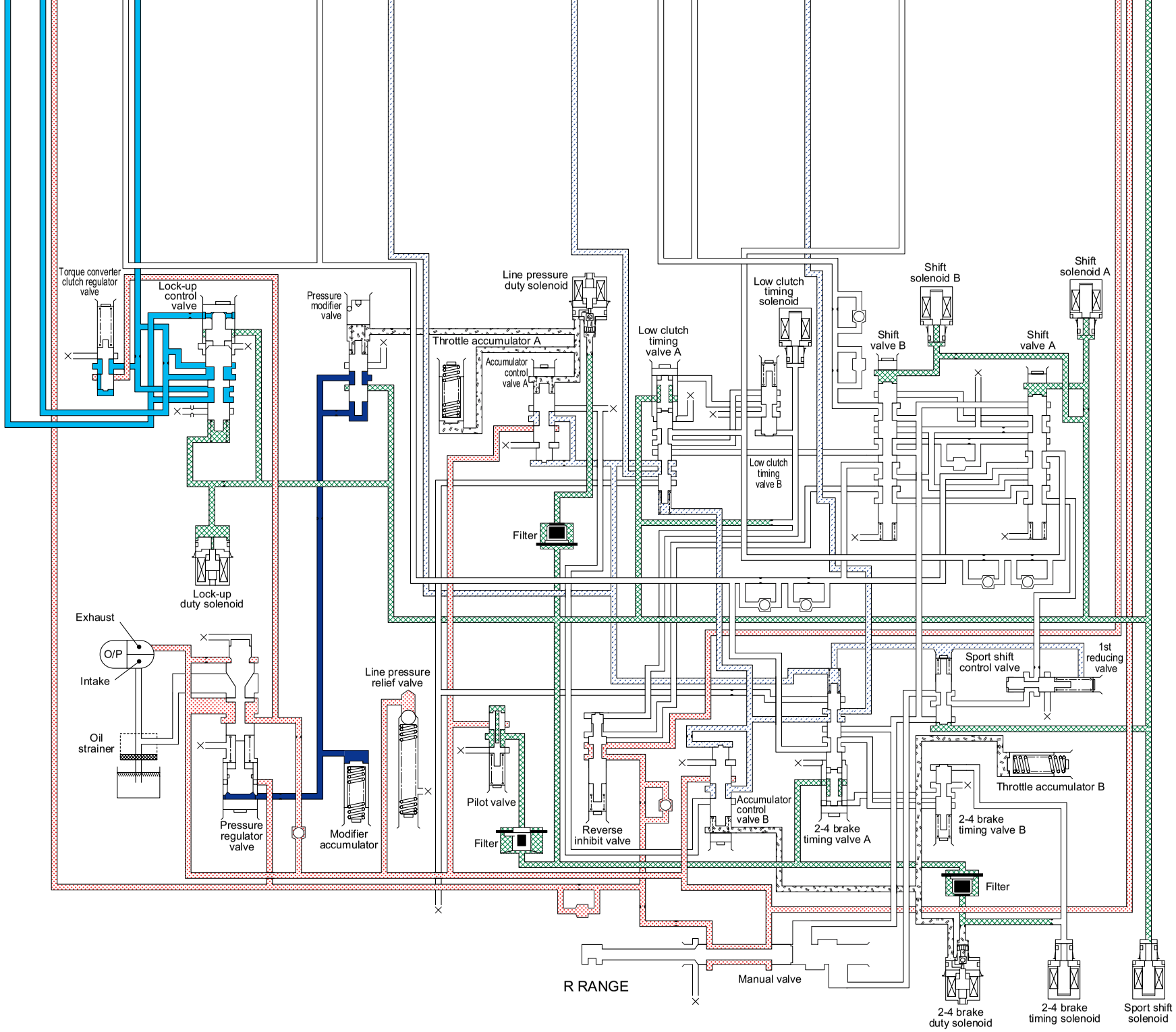



Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Low clutch timing valve B
Shift solenoid B
Shift valve B
Shift valve A
Shift solenoid A
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Line pressure relief valve
Pressure regulator valve
Modifier accumulator
Pilot valve
Filter
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
Sport shift control valve
1st reducing valve
Throttle accumulator B
2-4 brake timing valve B
Filter
N RANGE
Manual valve
P RANGE
2-4 brake duty solenoid
2-4 brake timing solenoid
Sport shift solenoid

AT-00719

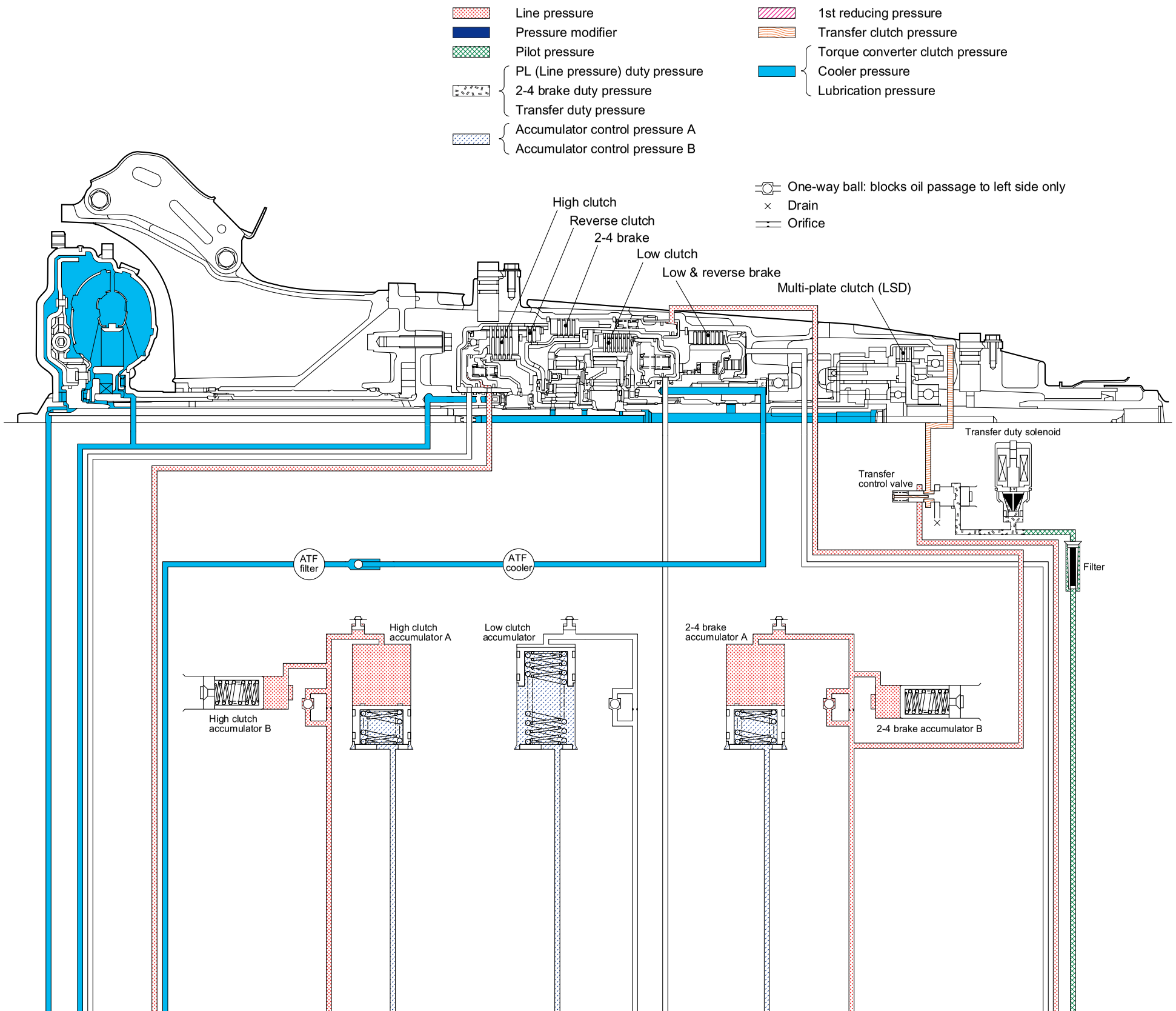
2. R RANGE

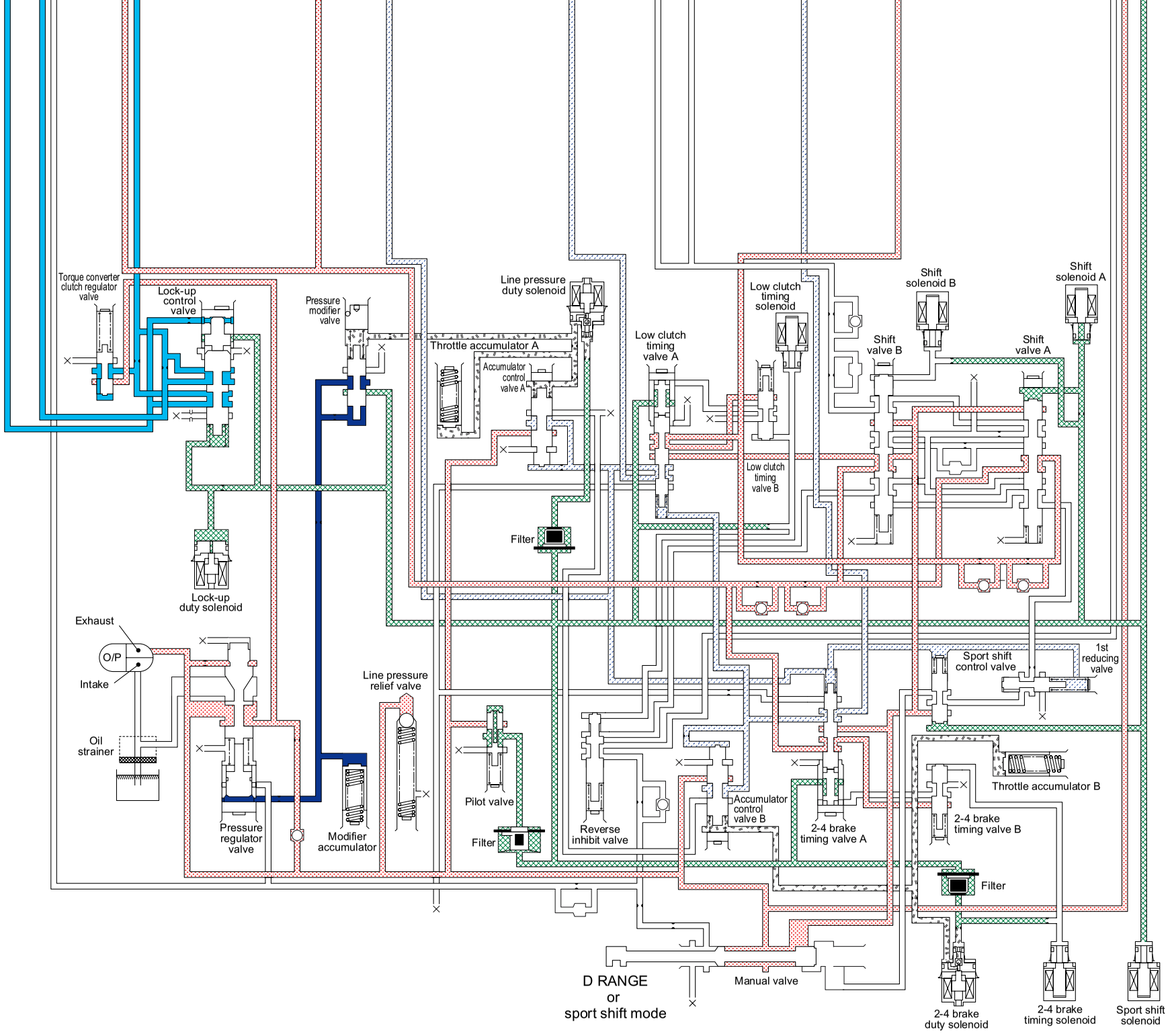

Line pressure
Pressure modifier
Pilot pressure
PL (Line pressure) duty pressure
2-4 brake duty pressure
Transfer duty pressure
Accumulator control pressure A
Accumulator control pressure B
1st reducing pressure
Transfer clutch pressure
Torque converter clutch pressure
Cooler pressure
Lubrication pressure
One-way ball: blocks oil passage to left side only
Drain
Orifice
High clutch
Reverse clutch
2-4 brake
Low clutch
Low & reverse brake
Multi-plate clutch (LSD)
Transfer duty solenoid
Transfer control valve
Filter
ATF filter
ATF cooler
High clutch accumulator A
Low clutch accumulator
2-4 brake accumulator A
High clutch accumulator B
2-4 brake accumulator B


Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Shift solenoid B
Shift solenoid A
Shift valve B
Shift valve A
Low clutch timing valve B
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Line pressure relief valve
Pilot valve
Filter
Pressure regulator valve
Modifier accumulator
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
Sport shift control valve
1st reducing valve
Throttle accumulator B
2-4 brake timing valve B
Filter
R RANGE
Manual valve
2-4 brake duty solenoid
2-4 brake timing solenoid
Sport shift solenoid

AT-00720

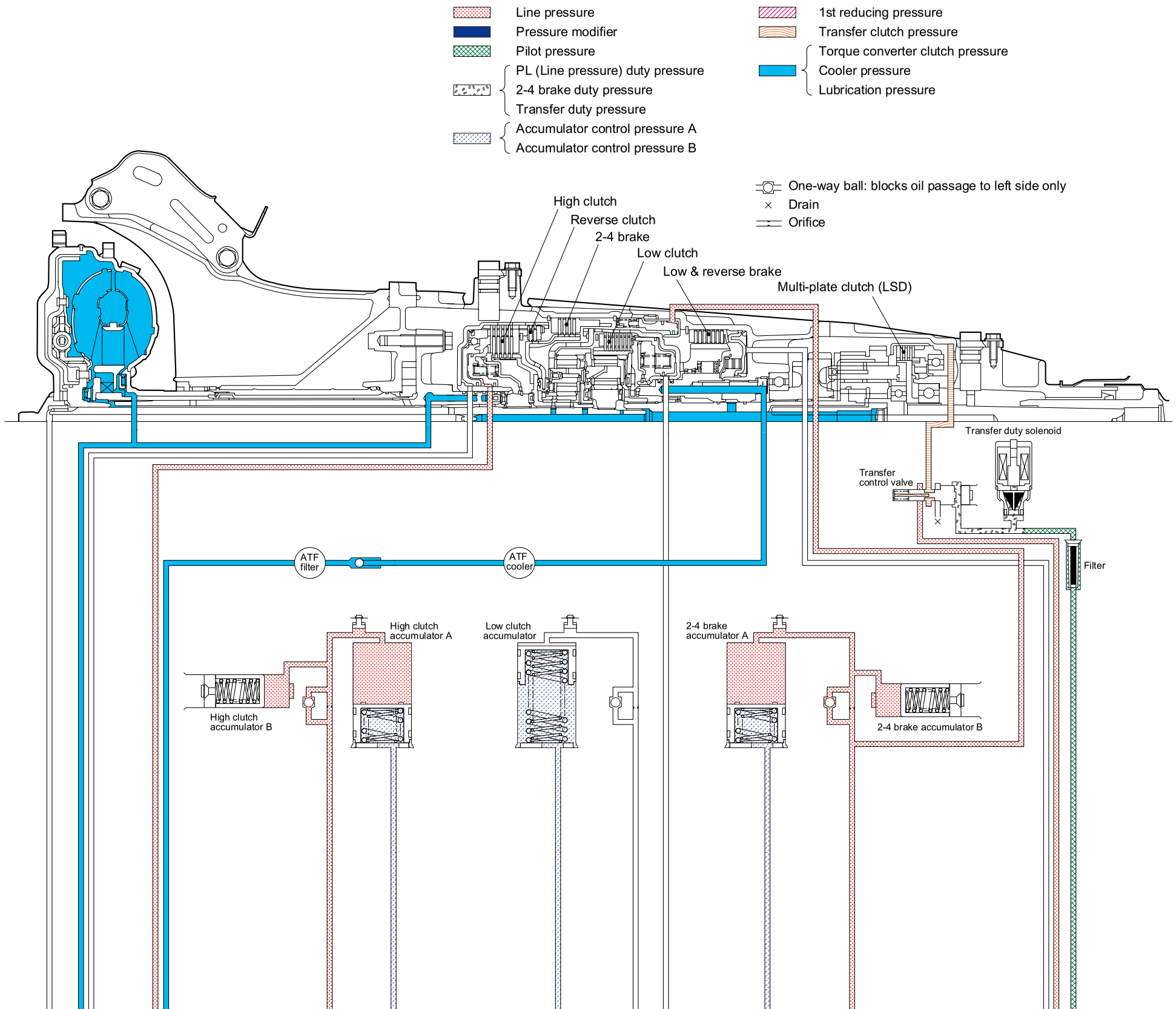
3. 4TH SPEED GEAR OF D RANGE AND SPORTS SHIFT MODE (LOCK-UP OFF)

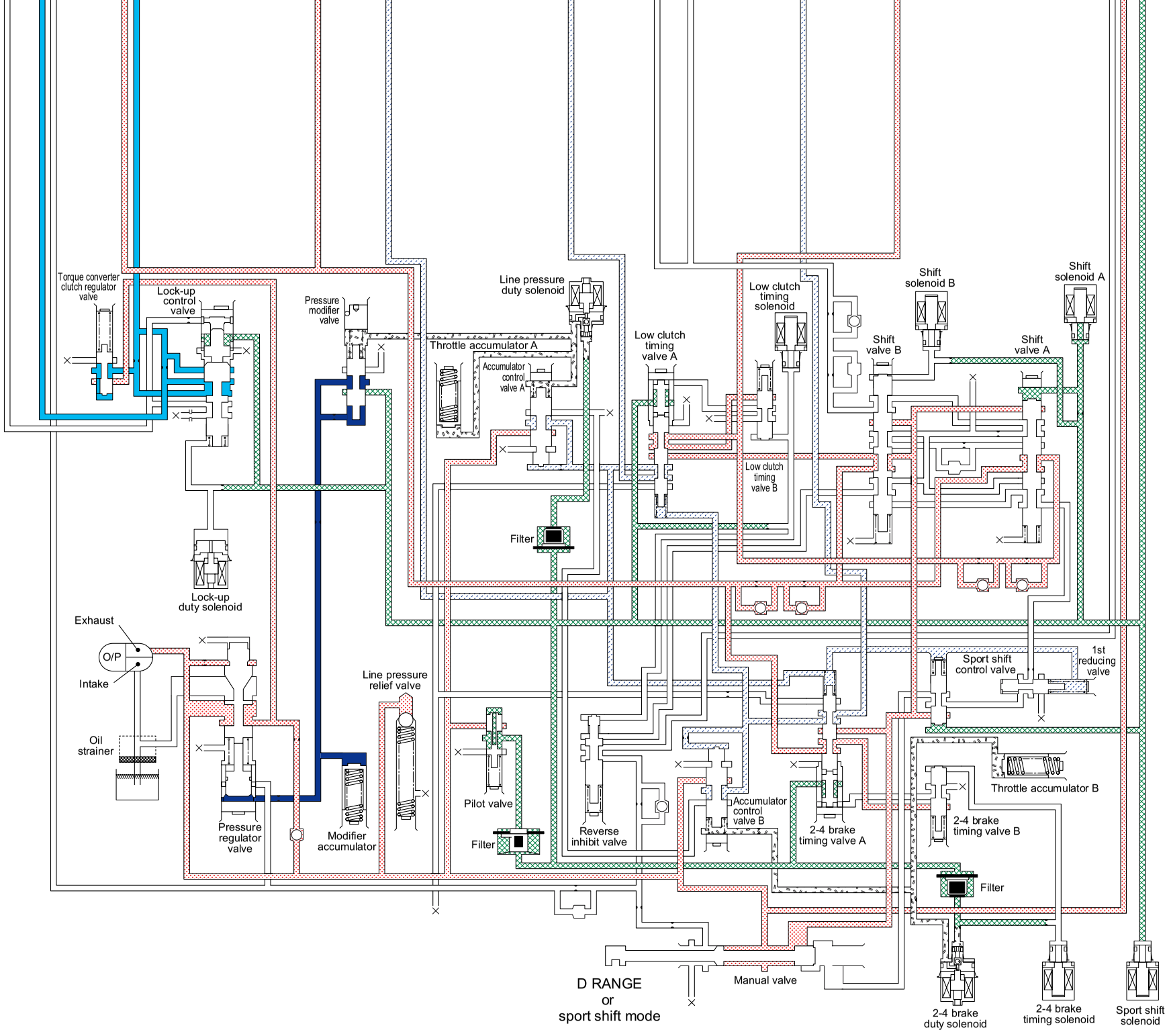



Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Low clutch timing valve B
Shift solenoid B
Shift solenoid A
Shift valve B
Shift valve A
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Line pressure relief valve
Pressure regulator valve
Modifier accumulator
Pilot valve
Filter
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
Sport shift control valve
1st reducing valve
Throttle accumulator B
2-4 brake timing valve B
Filter
D RANGE or sport shift mode
Manual valve
2-4 brake duty solenoid
2-4 brake timing solenoid
Sport shift solenoid

AT-00721

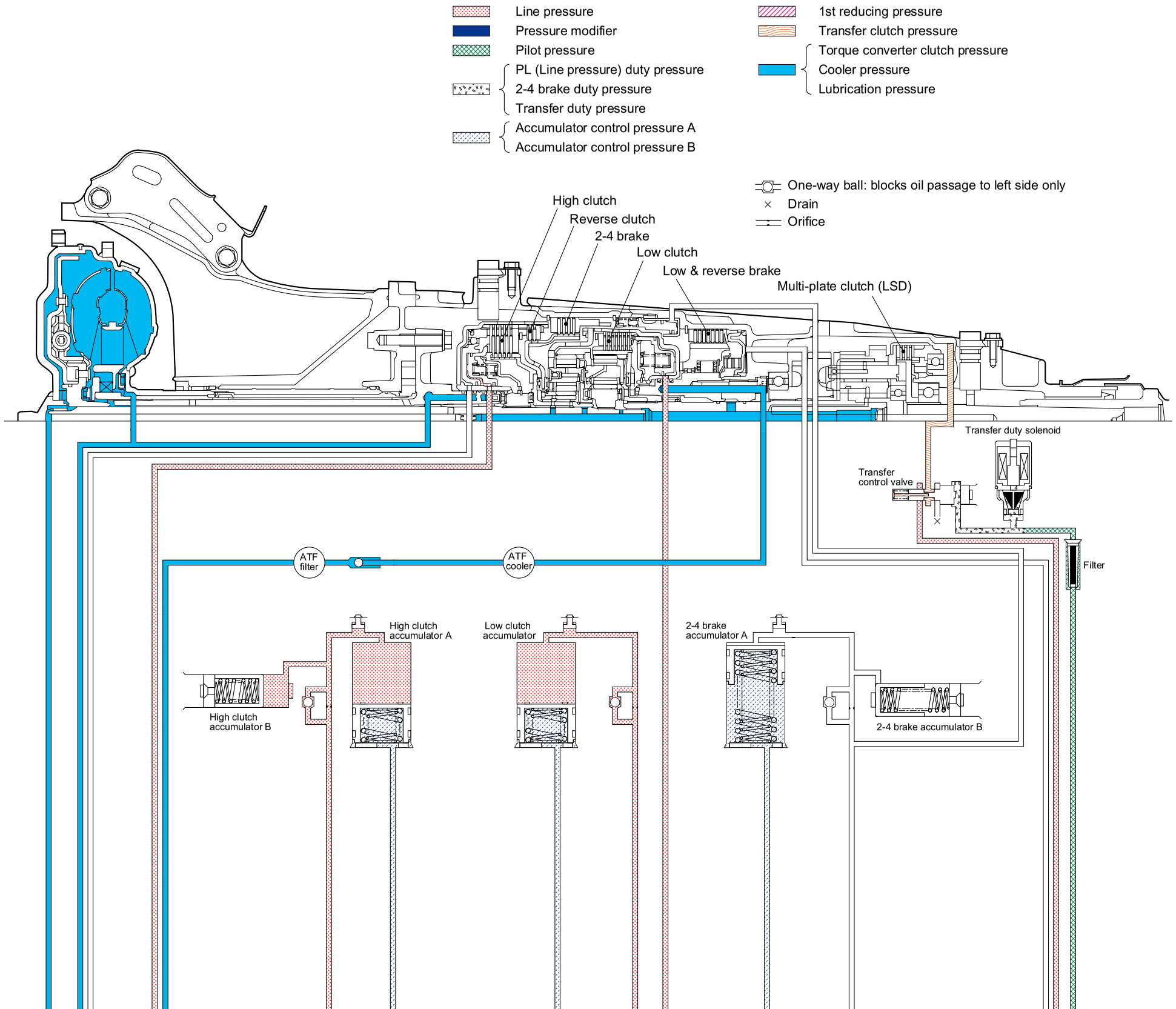
4. 4TH SPEED GEAR OF D RANGE AND SPORTS SHIFT MODE (LOCK-UP ON)

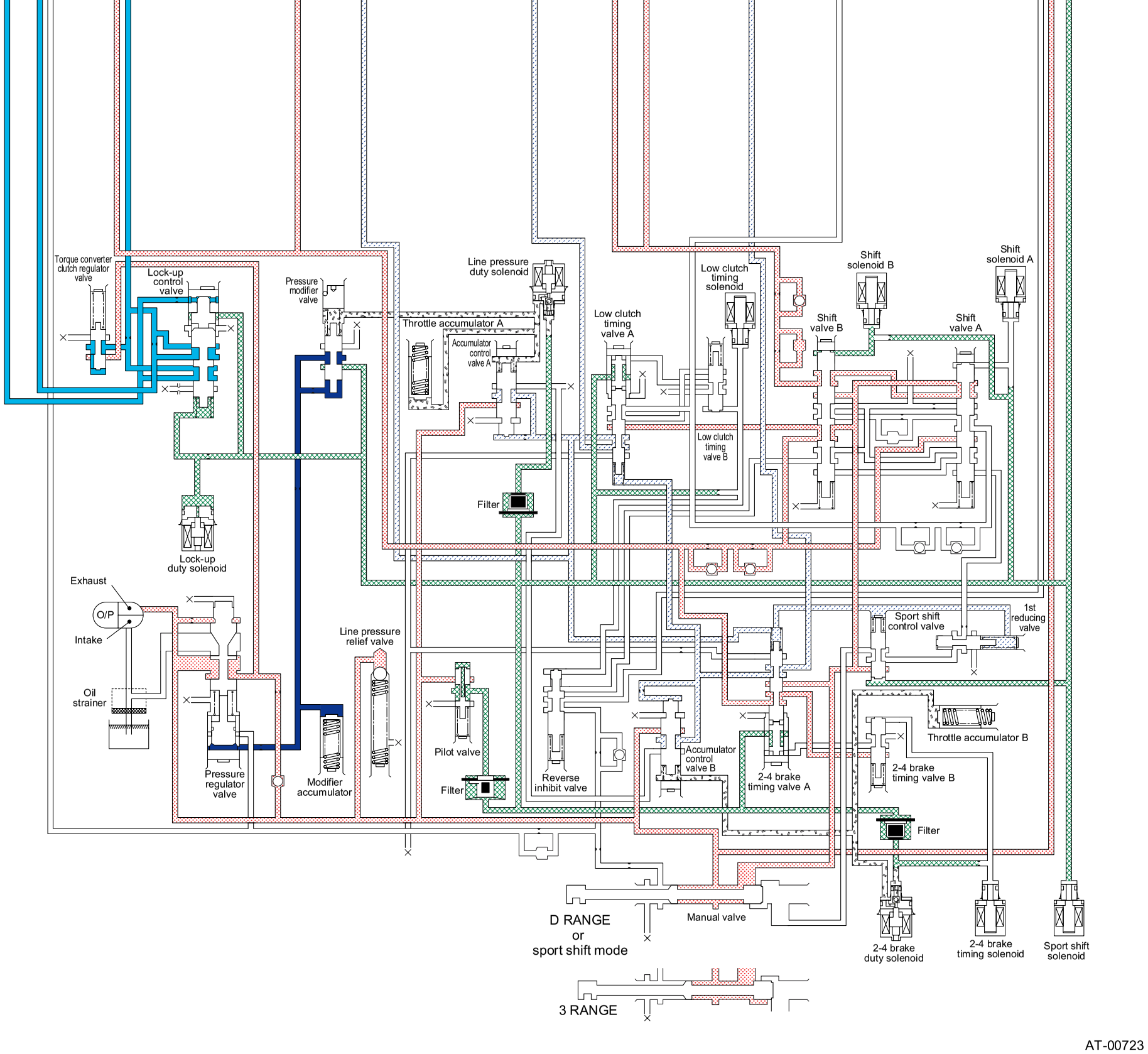



Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Shift solenoid B
Shift solenoid A
Shift valve B
Shift valve A
Low clutch timing valve B
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Line pressure relief valve
Pressure regulator valve
Modifier accumulator
Pilot valve
Filter
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
Sport shift control valve
1st reducing valve
Throttle accumulator B
2-4 brake timing valve B
Filter
D RANGE or sport shift mode
Manual valve
2-4 brake duty solenoid
2-4 brake timing solenoid
Sport shift solenoid

AT-00722

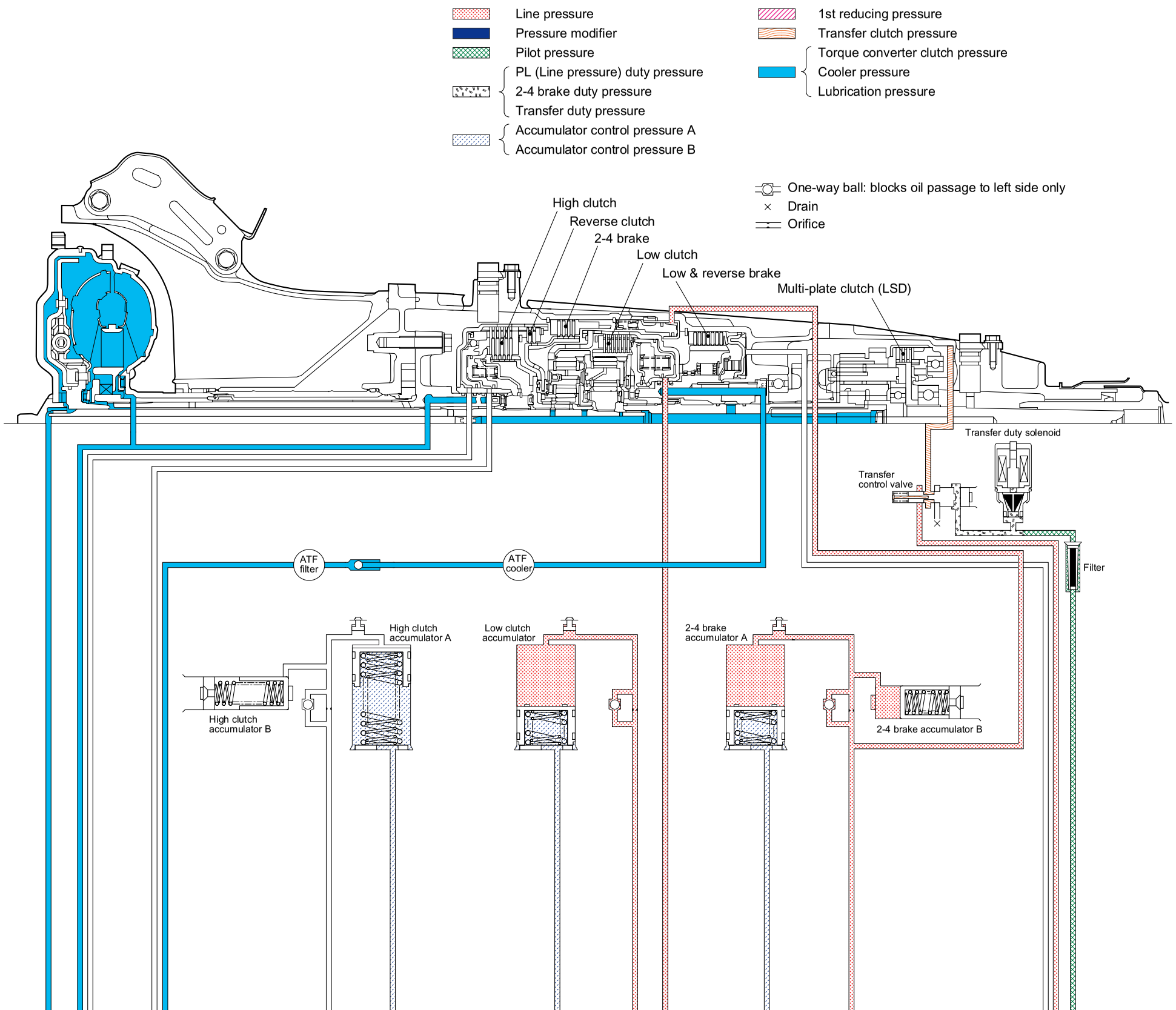
5. 3RD SPEED GEAR OF D, 3 RANGES AND SPORTS SHIFT MODE

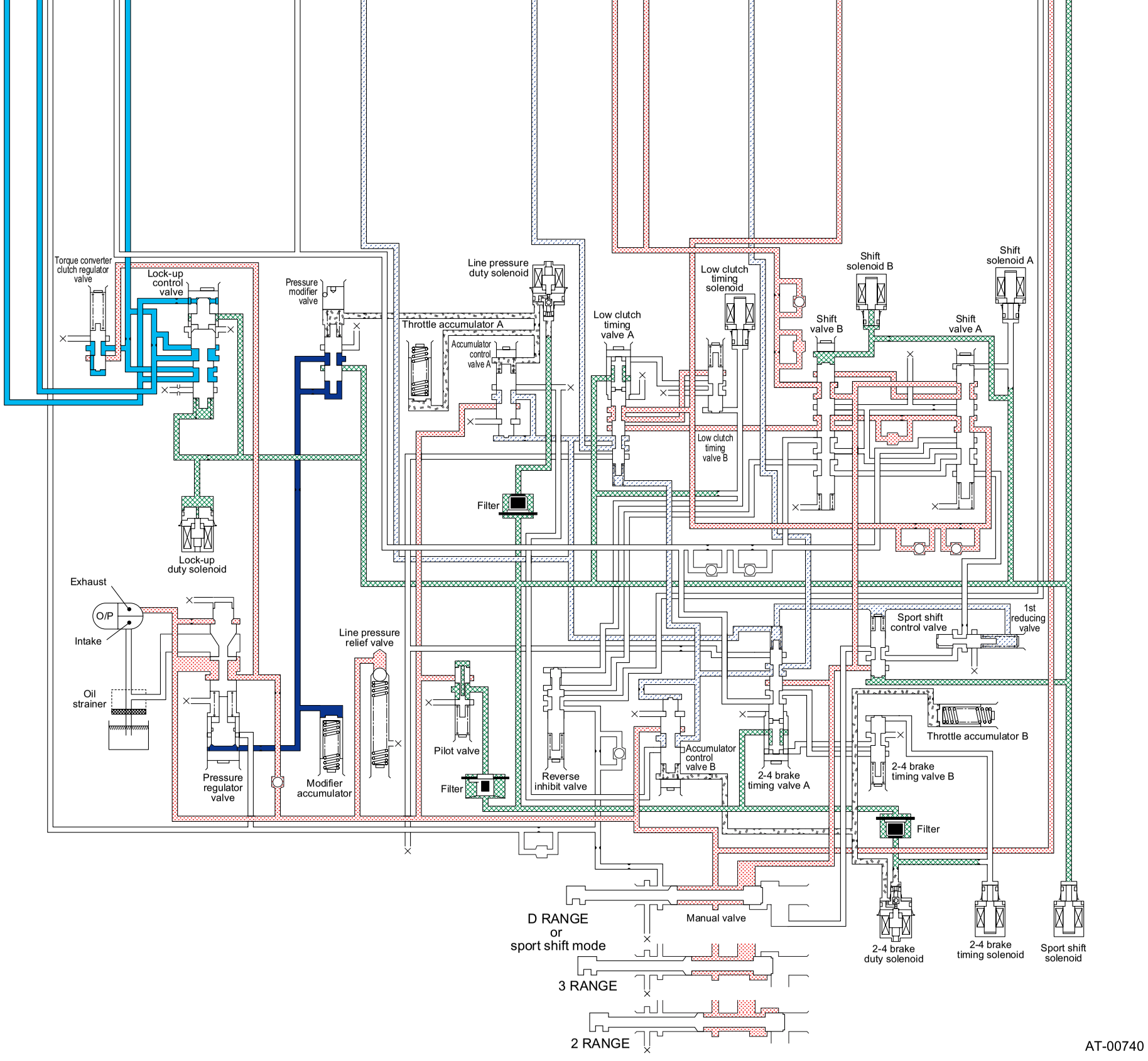



Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Low clutch timing valve B
Shift solenoid B
Shift valve B
Shift valve A
Shift solenoid A
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Line pressure relief valve
Pressure regulator valve
Modifier accumulator
Pilot valve
Filter
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
Sport shift control valve
1st reducing valve
Throttle accumulator B
2-4 brake timing valve B
Filter
D RANGE or sport shift mode
Manual valve
3 RANGE
2-4 brake duty solenoid
2-4 brake timing solenoid
Sport shift solenoid

AT-00723

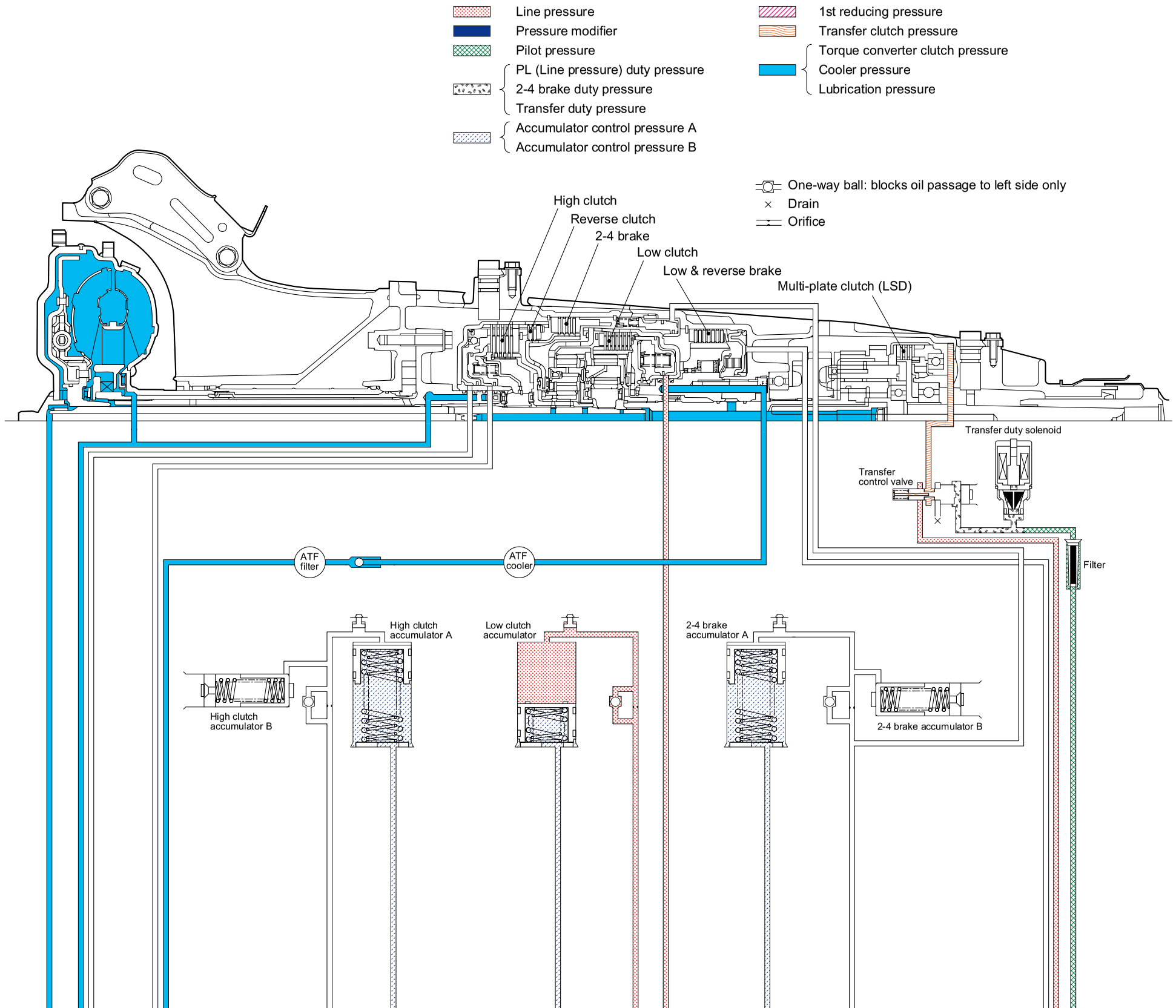
6. 2ND SPEED GEAR OF D, 3 , 2 RANGES AND SPORTS SHIFT MODE

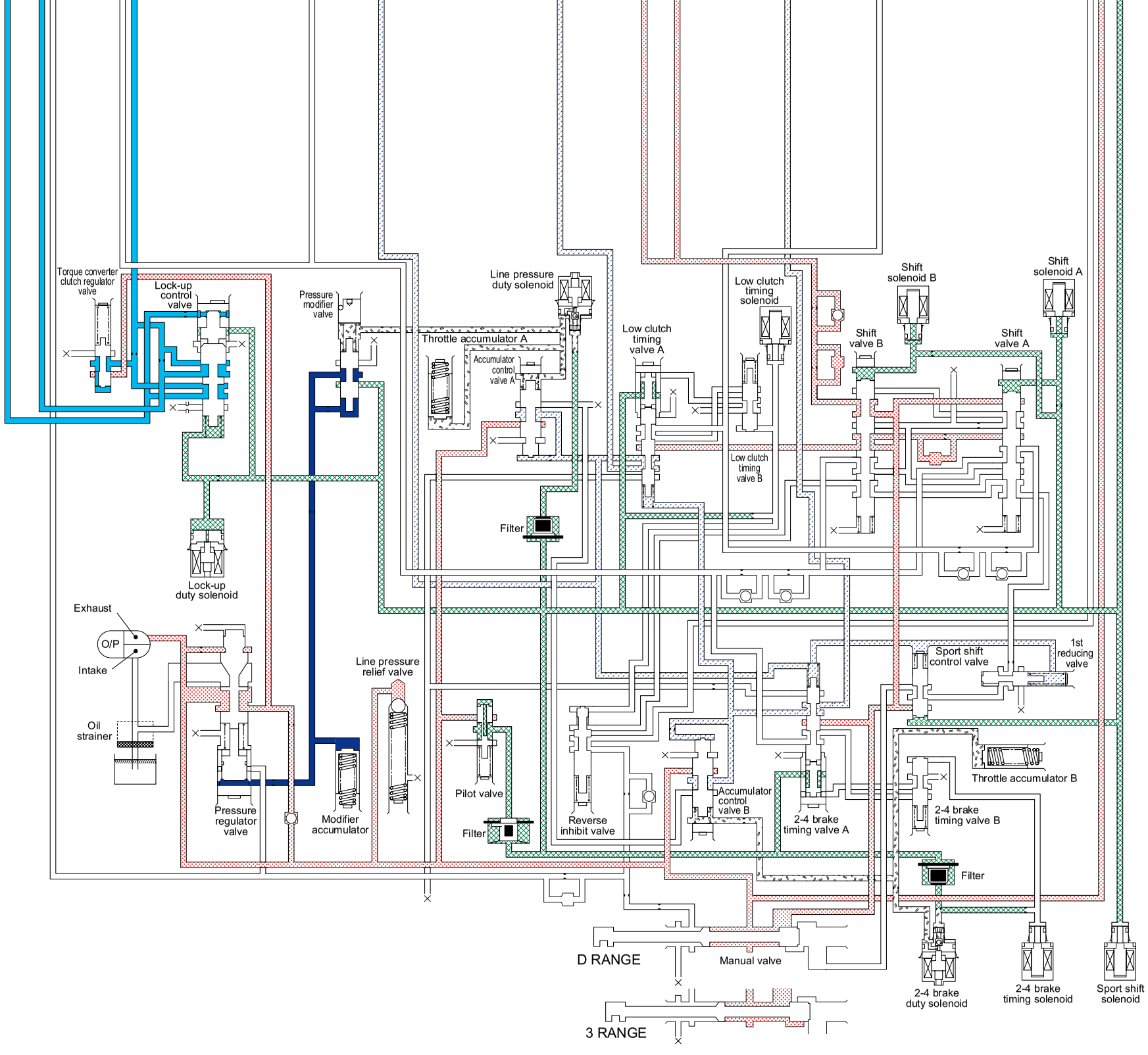



Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Shift solenoid B
Shift solenoid A
Shift valve B
Shift valve A
Low clutch timing valve B
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Line pressure relief valve
Pressure regulator valve
Modifier accumulator
Pilot valve
Filter
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
Sport shift control valve
1st reducing valve
Throttle accumulator B
2-4 brake timing valve B
Filter
D RANGE or sport shift mode
Manual valve
3 RANGE
2 RANGE
2-4 brake duty solenoid
2-4 brake timing solenoid
Sport shift solenoid

AT-00740

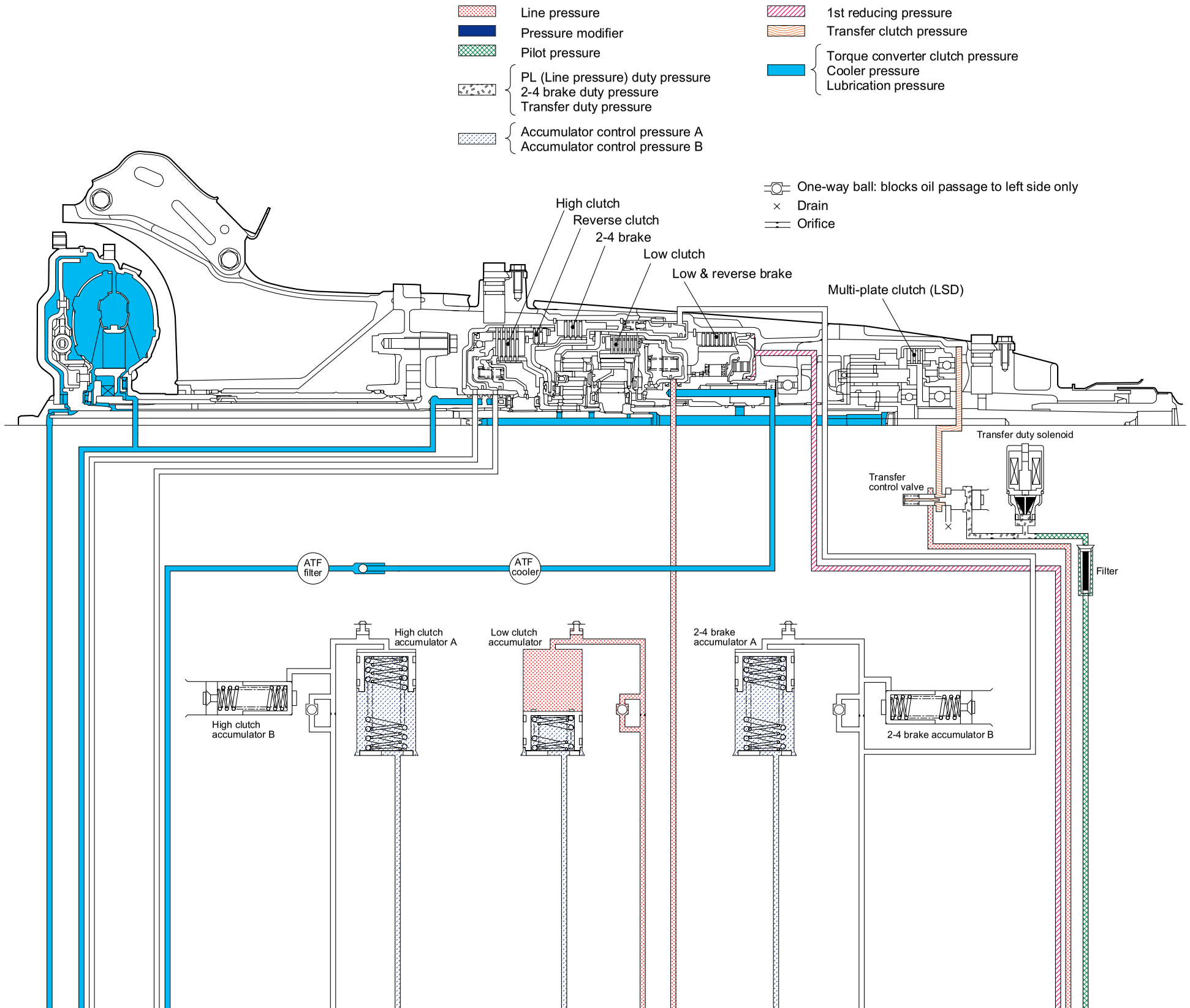
7. 1ST SPEED GEAR OF D, 3 RANGES

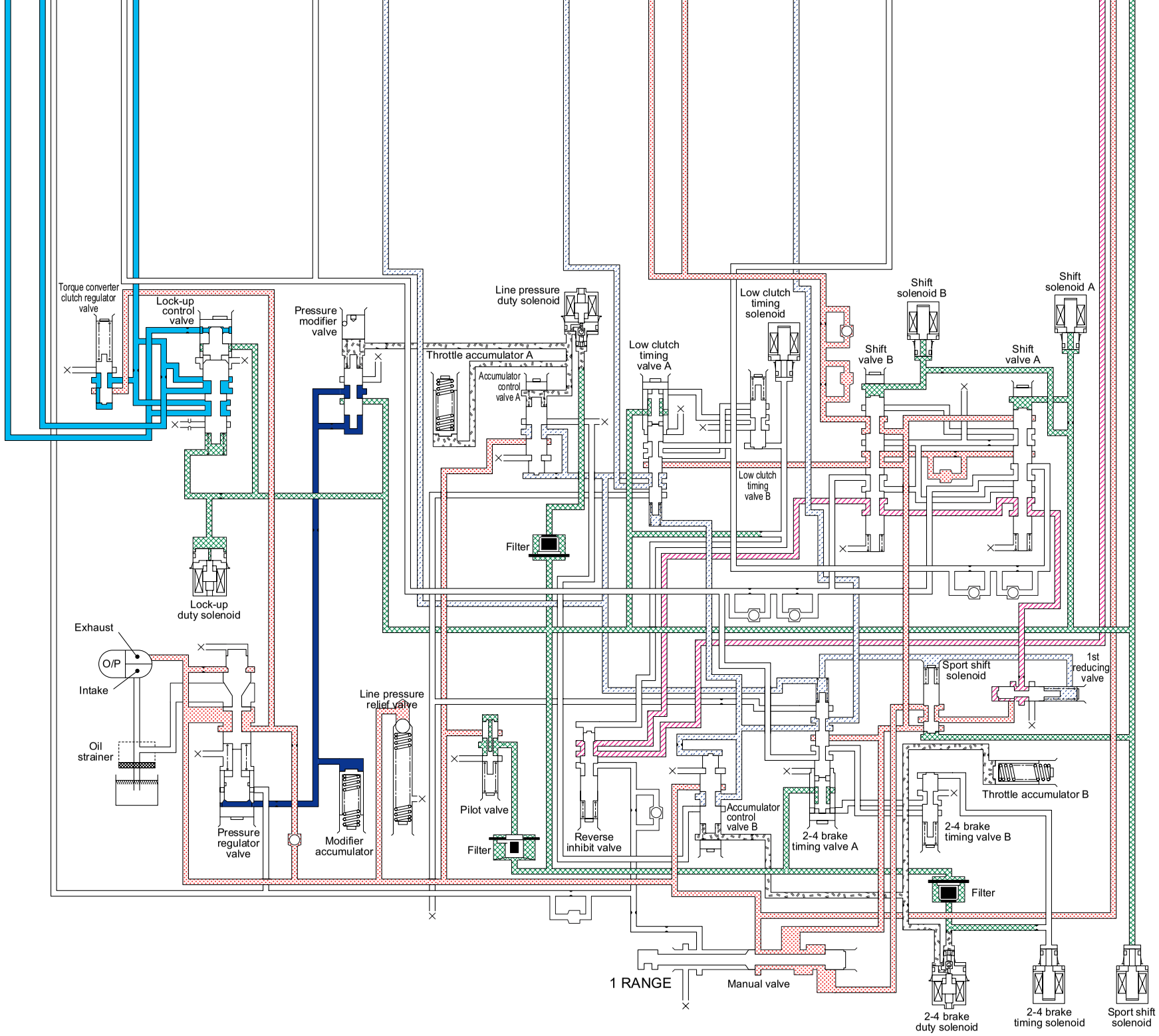



Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Shift solenoid B
Shift solenoid A
Shift valve B
Shift valve A
Low clutch timing valve B
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Line pressure relief valve
Pressure regulator valve
Modifier accumulator
Pilot valve
Filter
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
Sport shift control valve
1st reducing valve
Throttle accumulator B
2-4 brake timing valve B
Filter
D RANGE
Manual valve
3 RANGE
2-4 brake duty solenoid
2-4 brake timing solenoid
Sport shift solenoid

AT-00741

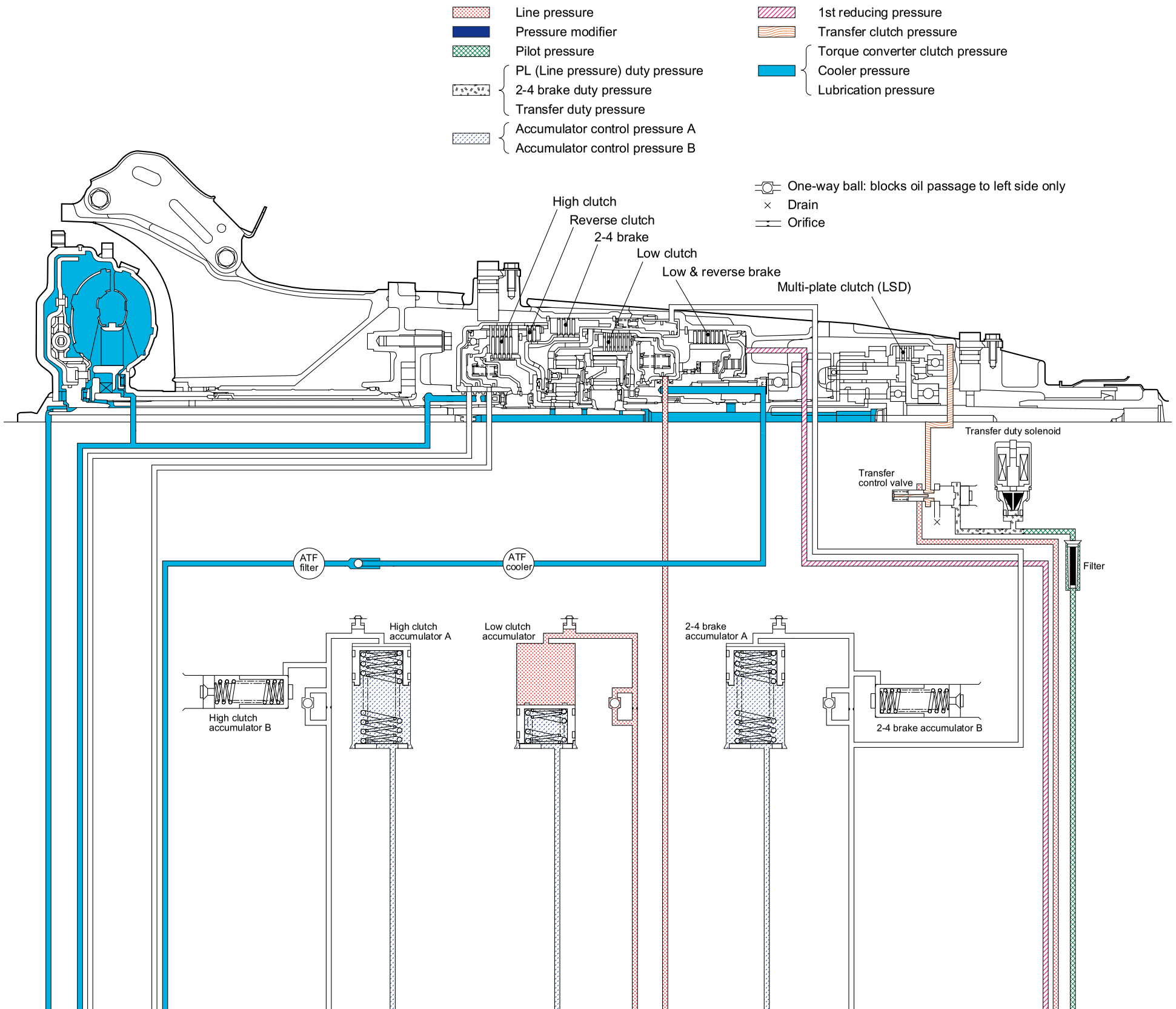
8. 1ST SPEED GEAR OF 1 RANGE

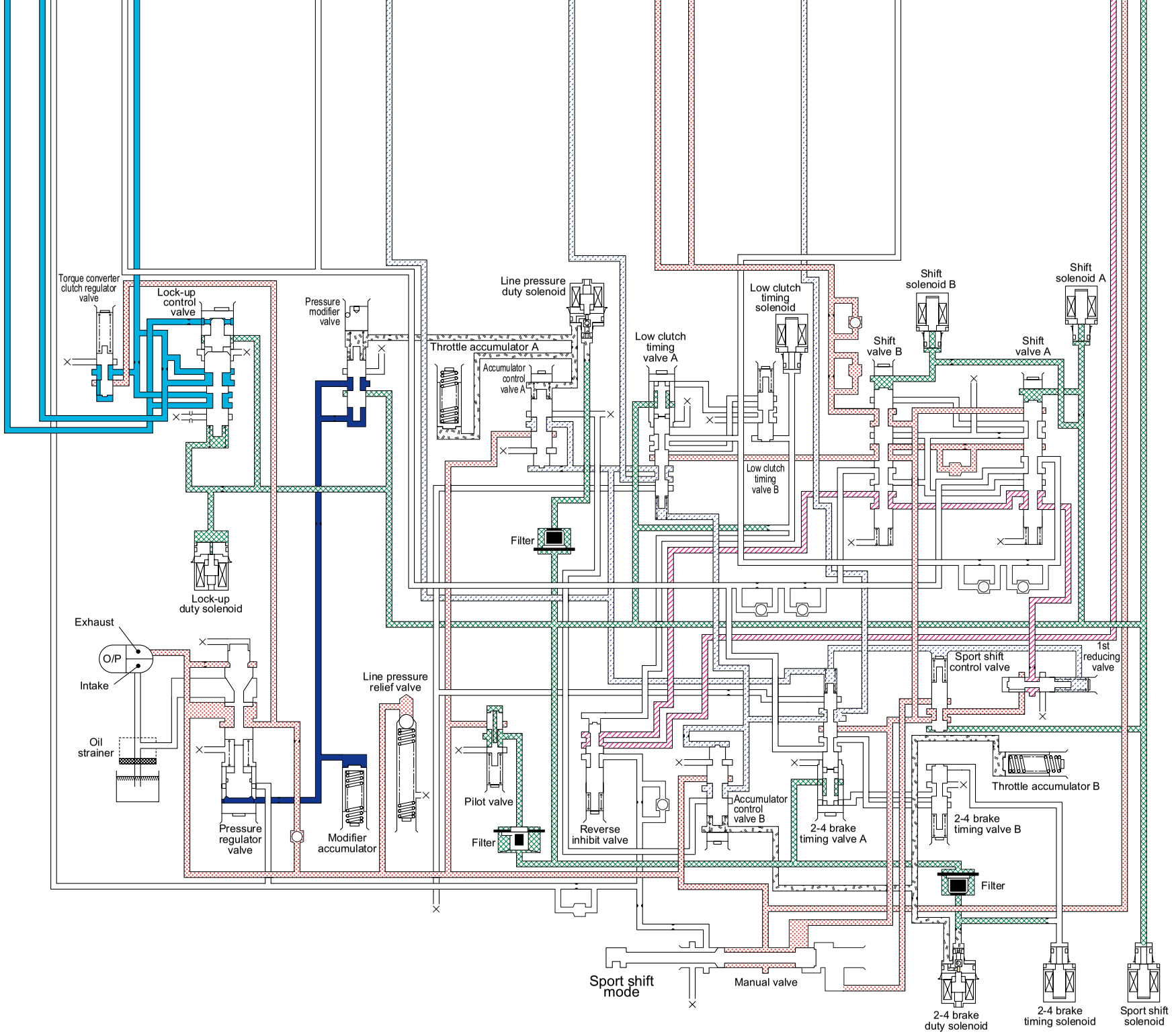



Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Low clutch timing valve B
Shift solenoid B
Shift solenoid A
Shift valve B
Shift valve A
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Line pressure relief valve
Pressure regulator valve
Modifier accumulator
Pilot valve
Filter
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
Sport shift solenoid
1st reducing valve
Throttle accumulator B
2-4 brake timing valve B
Filter
1 RANGE
Manual valve
2-4 brake duty solenoid
2-4 brake timing solenoid
Sport shift solenoid

AT-00742

9. 1ST SPEED GEAR OF SPORTS SHIFT MODE




Torque converter clutch regulator valve
Lock-up control valve
Pressure modifier valve
Line pressure duty solenoid
Throttle accumulator A
Accumulator control valve A
Low clutch timing valve A
Low clutch timing solenoid
Low clutch timing valve B
Shift solenoid B
Shift solenoid A
Shift valve B
Shift valve A
Filter
Lock-up duty solenoid
Exhaust
O/P
Intake
Oil strainer
Line pressure relief valve
Pressure regulator valve
Modifier accumulator
Pilot valve
Filter
Reverse inhibit valve
Accumulator control valve B
2-4 brake timing valve A
Sport shift control valve
1st reducing valve
Throttle accumulator B
2-4 brake timing valve B
Filter
Sport shift mode
Manual valve
2-4 brake duty solenoid
2-4 brake timing solenoid
Sport shift solenoid

AT-00743