

Disassembly spacer plate



Figure 312

From converter end, remove stator support and thrust washer.

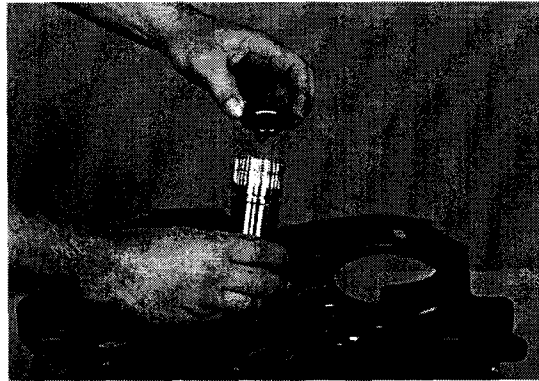


Figure 315

If support bushing or bearing is to be replaced, remove from stator support.

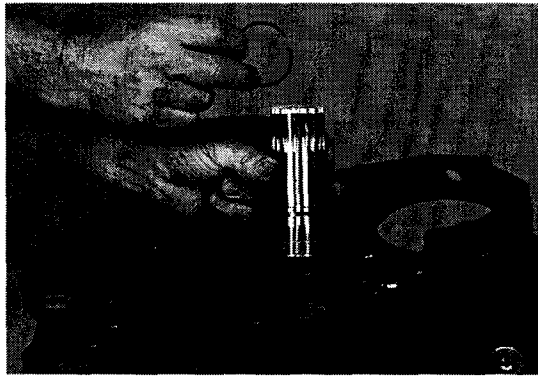


Figure 313

Remove stator support oil sealing ring.

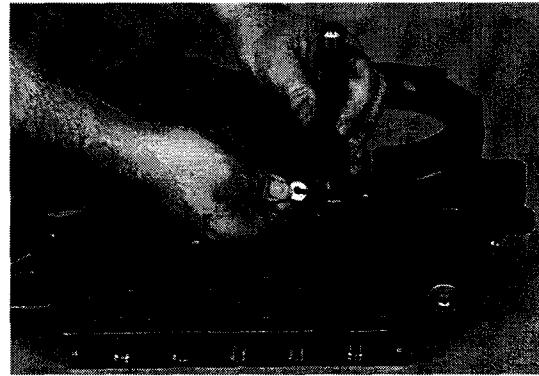


Figure 316

Compress converter safety valve spring and remove retaining washer.

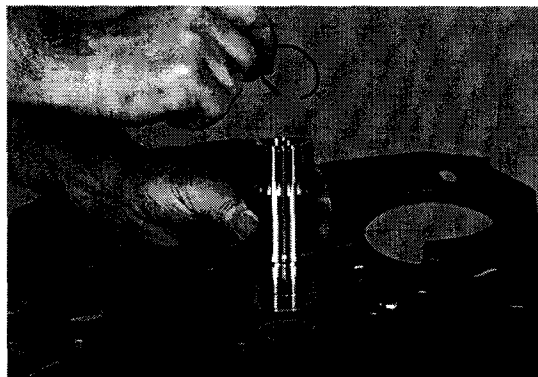


Figure 314

Remove sealing ring expander ring.



Figure 317

Remove safety valve spring.

Disassembly spacer plate

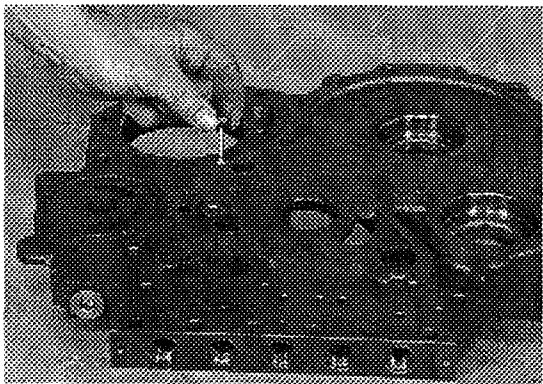


Figure 318
Turn spacer plate over and remove safety valve poppet.

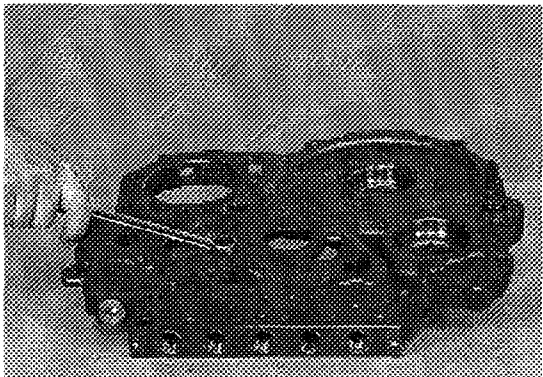
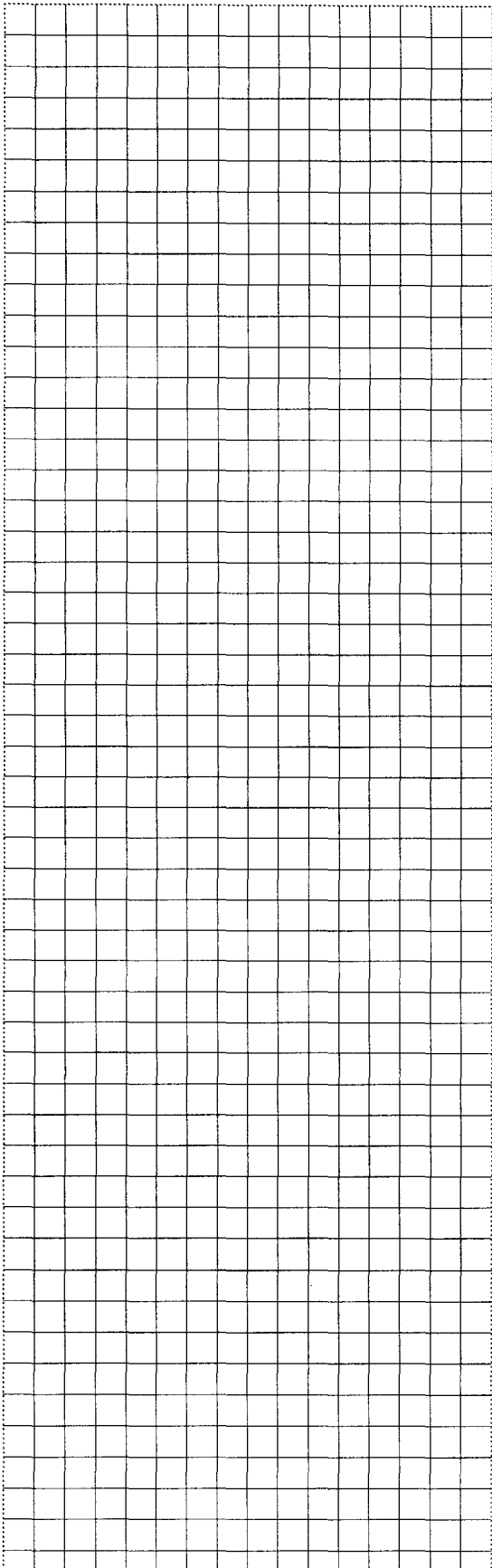
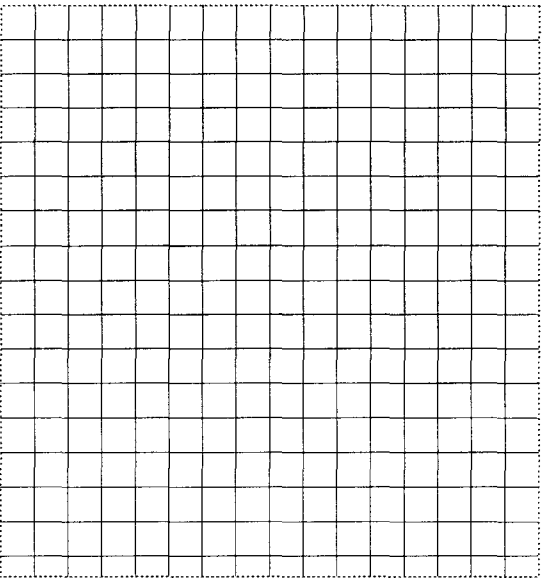


Figure 319
Remove plug and seal washer from spacer plate.



Reassembly spacer plate

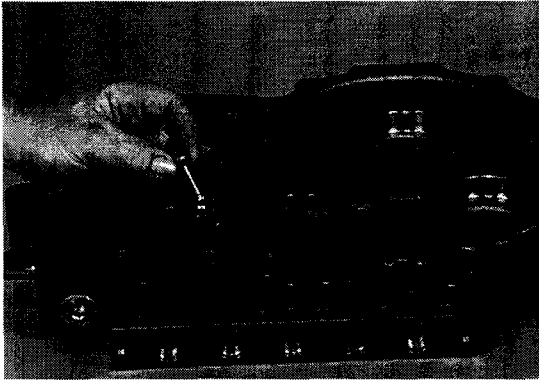


Figure 320

From transmission side of spacer plate, position converter safety valve poppet in bore in spacer. Refer to the cleaning and inspection pages.

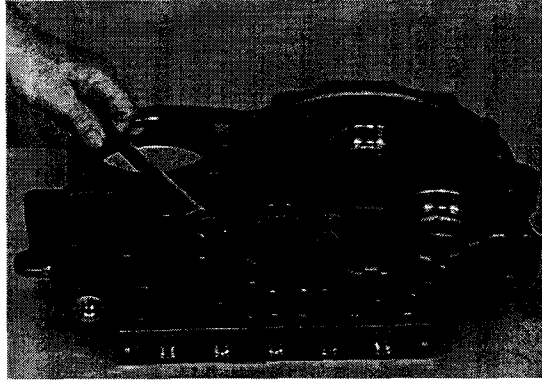


Figure 323

Install plug and seal washer.



Figure 321

Turn spacer over and position safety valve spring on poppet.

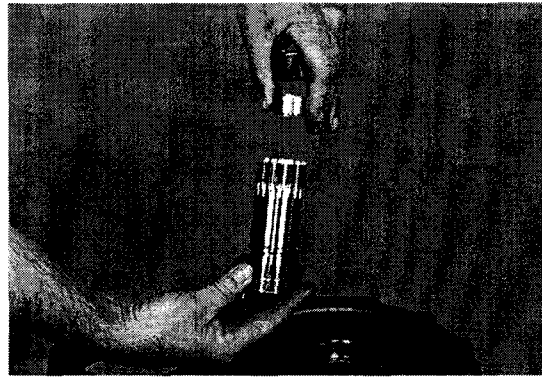


Figure 324

If stator support bushing was removed, install bushing in support. Install needle bearing in stator support.

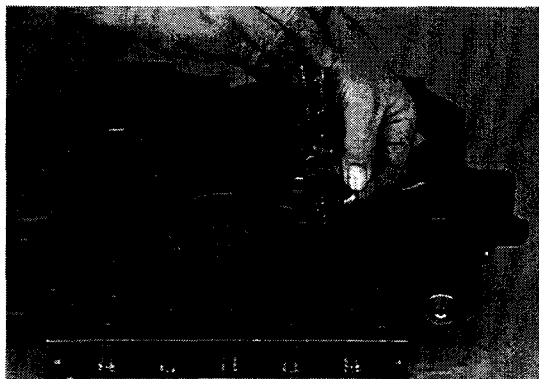


Figure 322

Compress spring and install poppet retaining washer.
NOTE: end of spring must go in recessed side of washer.

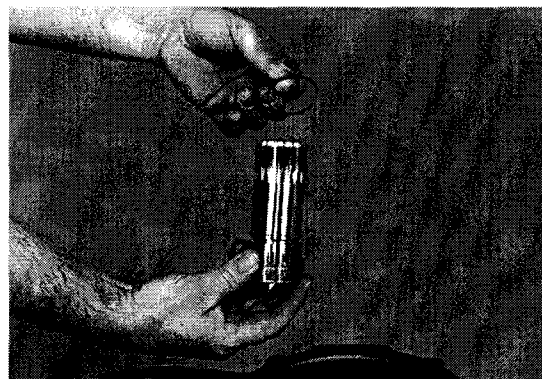


Figure 325

Install stator support oil sealing ring expander ring.

Reassembly spacer plate

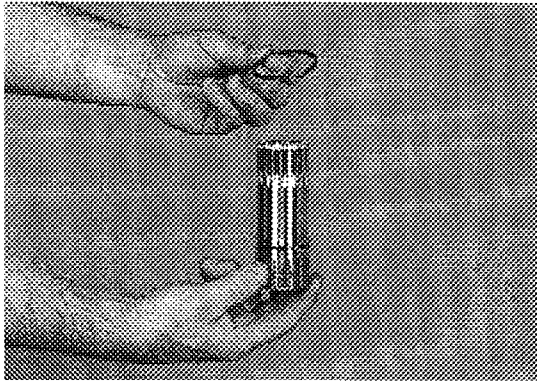


Figure 326

Install oil sealing ring on expander ring.

NOTE: Expander spring gap to be 180 degrees from sealing ring hook joint.

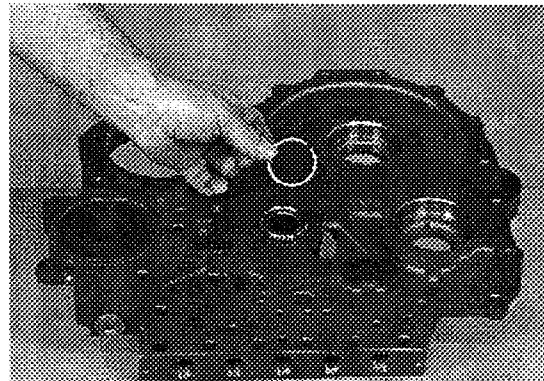


Figure 329

Install stator support locating ring.

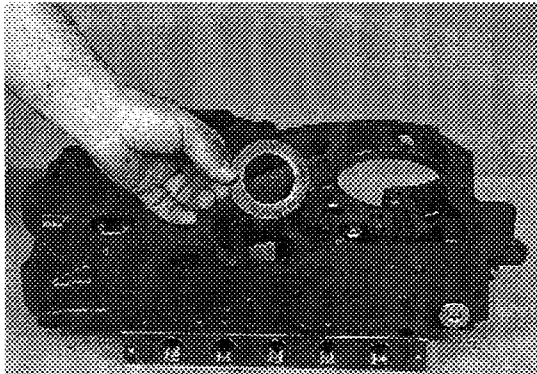


Figure 327

Position impeller hub gear washer on spacer plate.

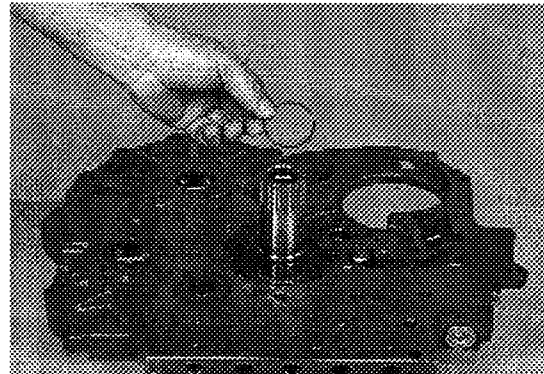


Figure 330

Push support back through spacer until locating ring shoulders in support bore.
Turn spacer plate over and install support retaining ring.

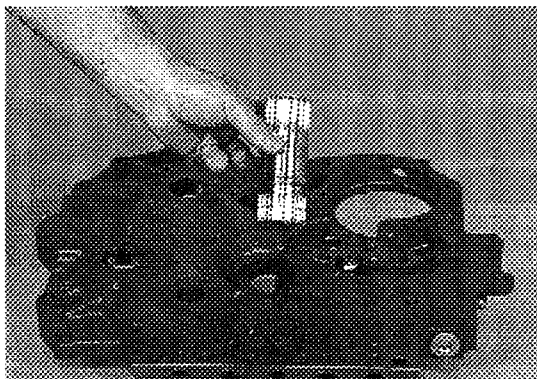


Figure 328

Install stator support through washer and spacer plate.

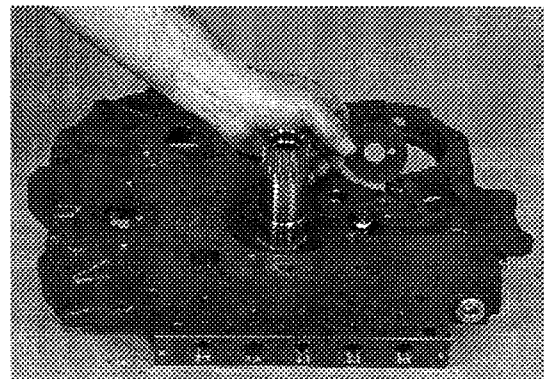


Figure 331

Position pump drive idler shaft washer on spacer plate.

Reassembly spacer plate



Figure 332

Position pump drive shaft through washer and into spacer plate. Align roll pin in spacer plate.

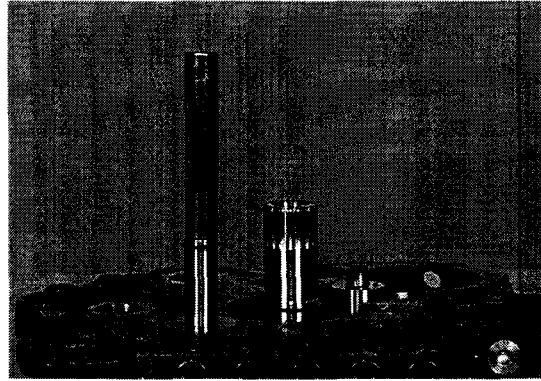


Figure 335

Support spacer plate and press reverse idler shaft into position and tight against locating ring.

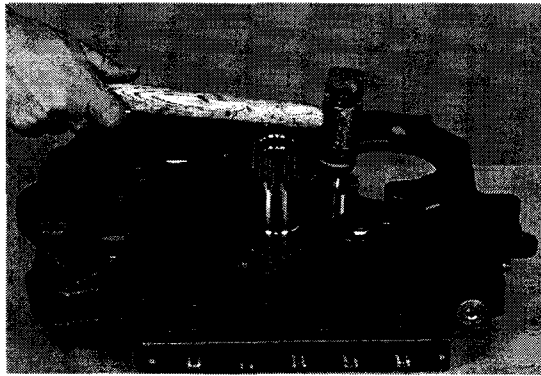


Figure 333

Tap shaft into place.

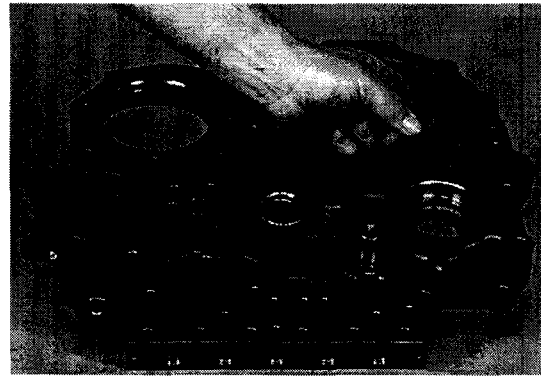


Figure 336

Turn spacer plate over and position tang thrust washer on shaft, being certain tang in washer is in notch in spacer plate.

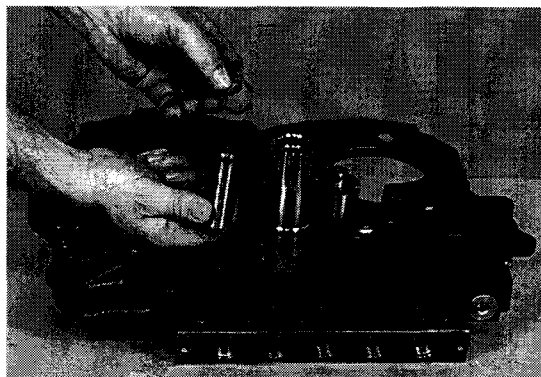


Figure 334

Install locating ring on reverse idler shaft.

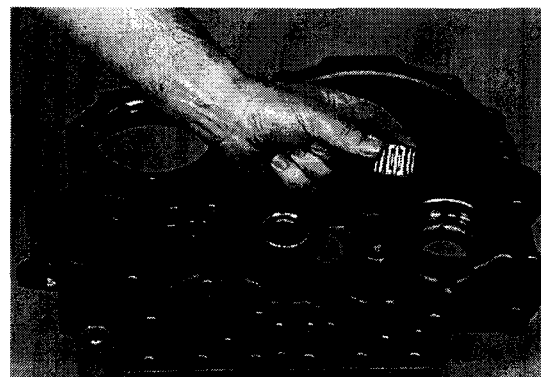


Figure 337

Position idler gear needle bearing on shaft. Lubricate bearing.

Reassembly spacer plate

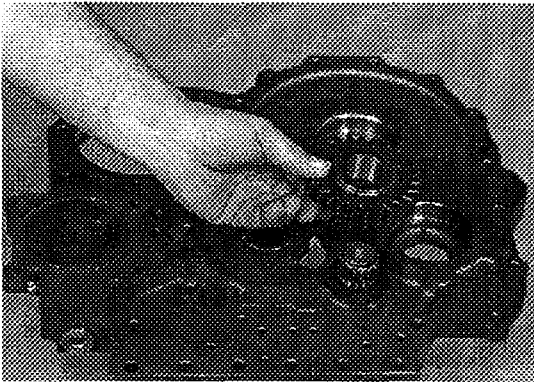


Figure 338

Position idler gear on bearing.

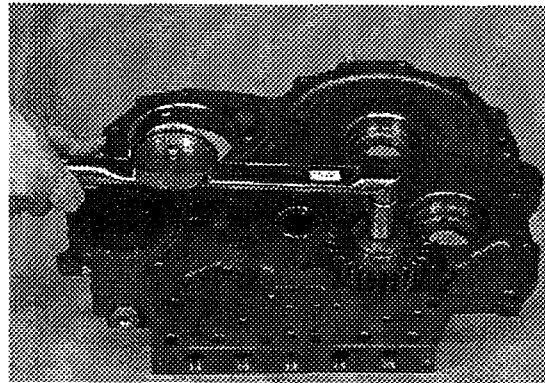


Figure 341

Tighten capscrew to specified torque (see torque chart).

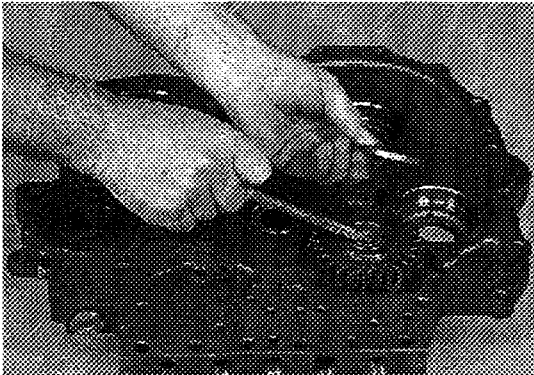


Figure 339

Position idler gear end plate and roll pin on idler shaft aligning roll pin with hole in idler shaft.

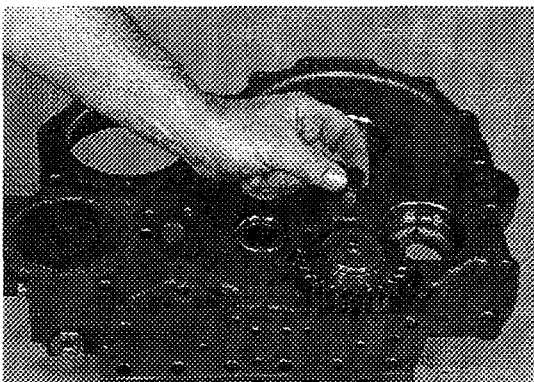
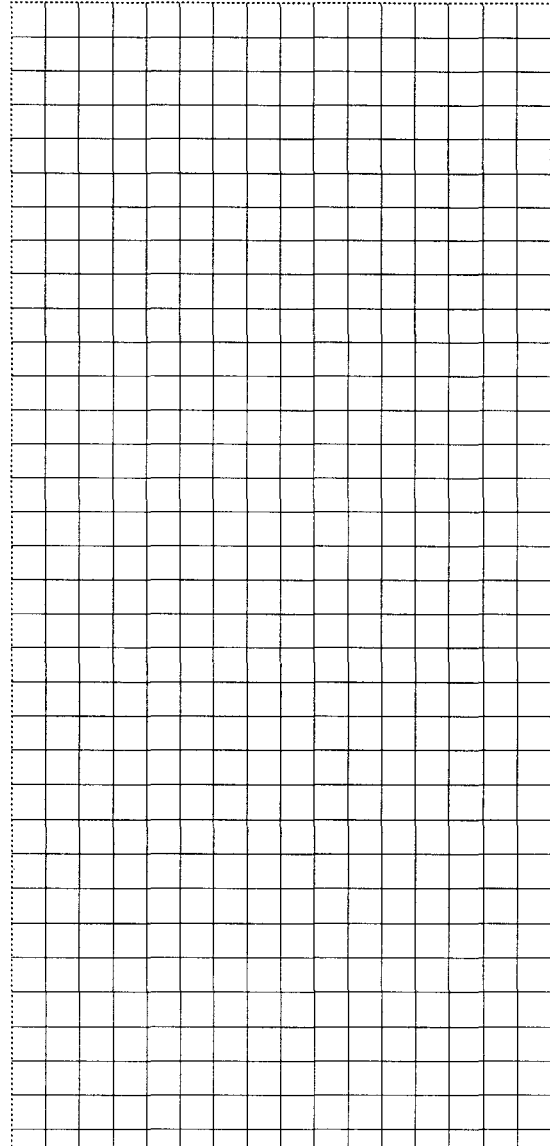


Figure 340

Install end plate capscrew and washer.



Disassembly front output flange

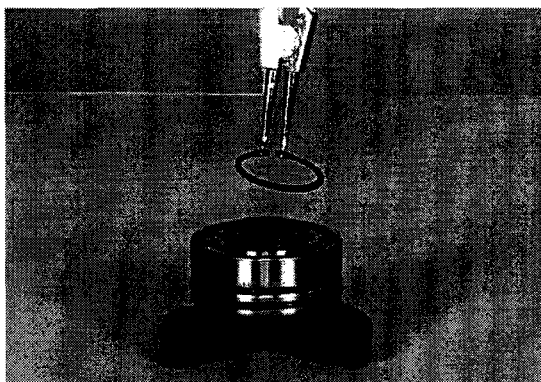


Figure 342

Remove flange to bearing retainer ring.

NOTE: do not remove expansion plug unless it is being replaced.

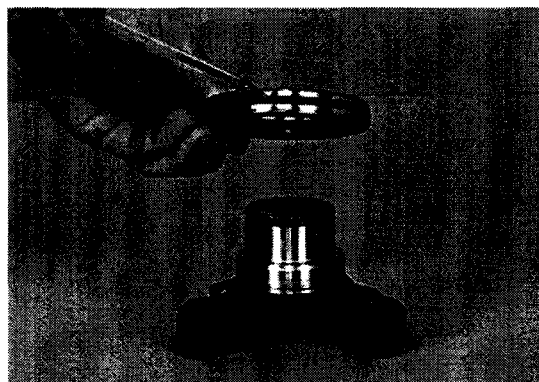


Figure 345

Oil seal sleeve and "O"-ring removed.

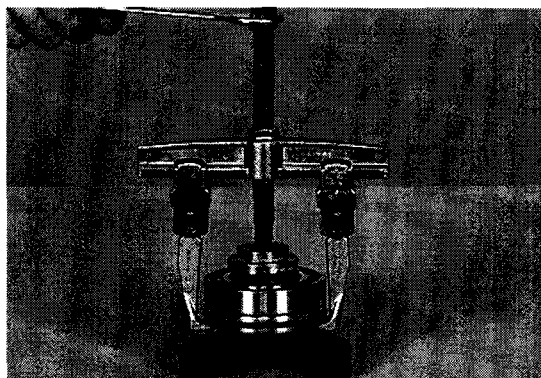


Figure 343

Using a bearing puller as shown, remove bearing.



Figure 346

Remove oil seal from sleeve.

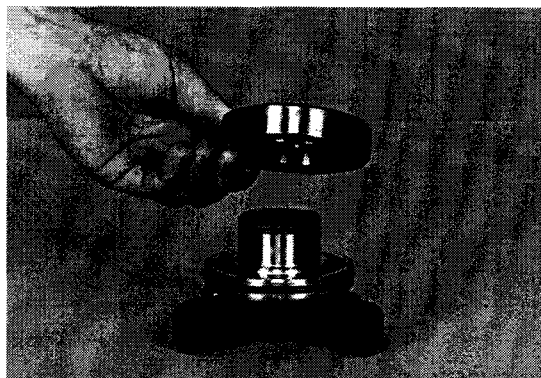


Figure 344

Bearing removed.

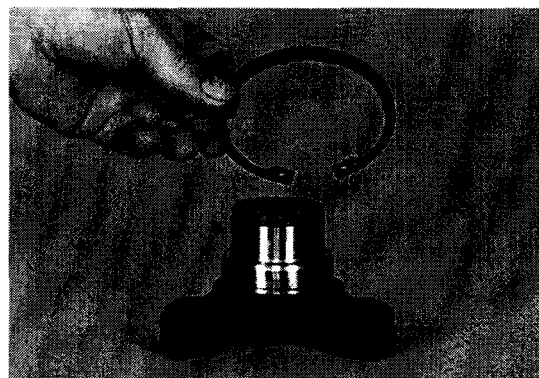


Figure 347

Remove oil seal retainer ring from output flange.

Reassembly front output flange

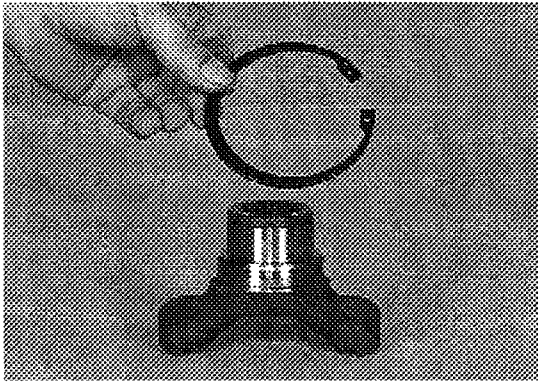


Figure 348

Position bearing retainer ring on output flange. Refer to the cleaning and inspection pages.

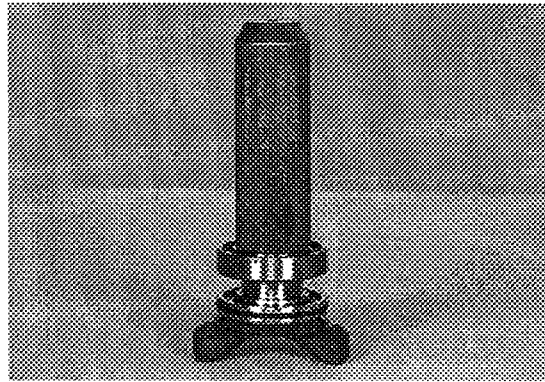


Figure 351

Press bearing on output flange.

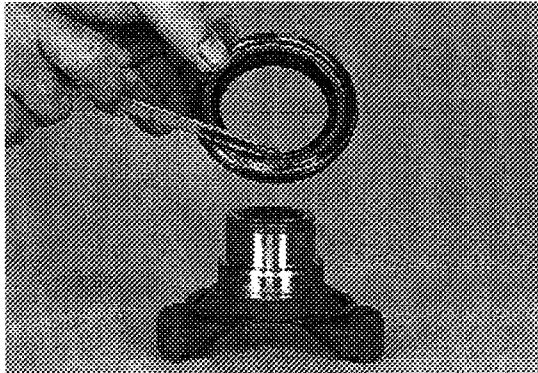


Figure 349

Apply a very light coat of permatex #2 to the outer diameter of the output flange oil seal, press oil seal in oil seal sleeve. Oil seal must be flush with one side of face of oil seal sleeve, and lip of seal must be in.



Figure 352

Install bearing to flange retainer ring.

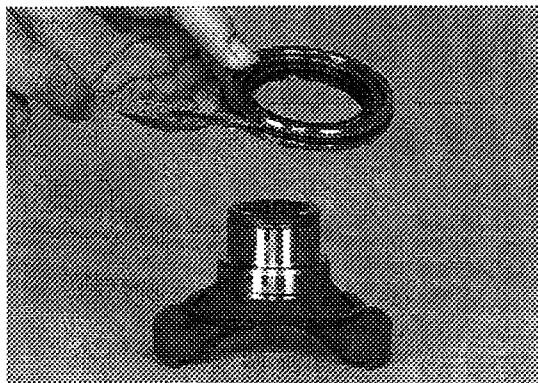
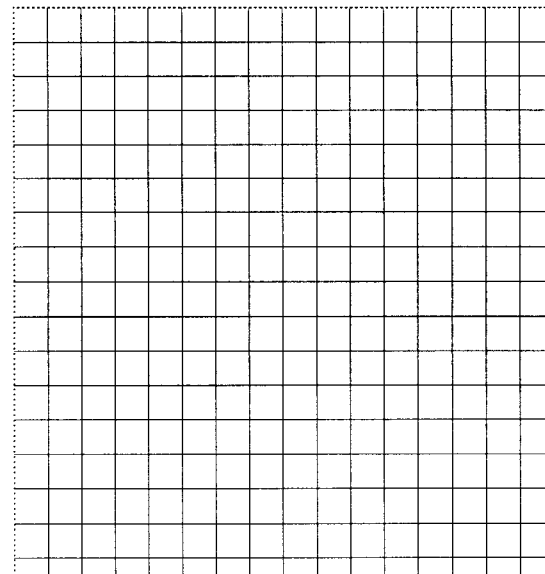


Figure 350

Install new "O"-ring on oil seal sleeve. Position oil seal sleeve assembly on output flange.

NOTE: recessed position of oil seal and sleeve must be up, with lip of seal up. This leaves a space between oil seal and output bearing.



Disassembly converter housing assembly

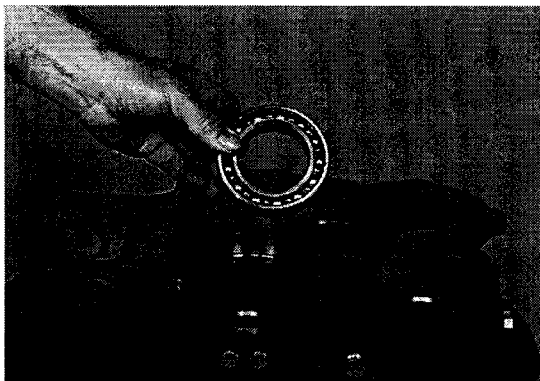


Figure 353

Remove torque converter bearing.



Figure 356

Remove converter housing plug (high and 3rd clutch shaft).

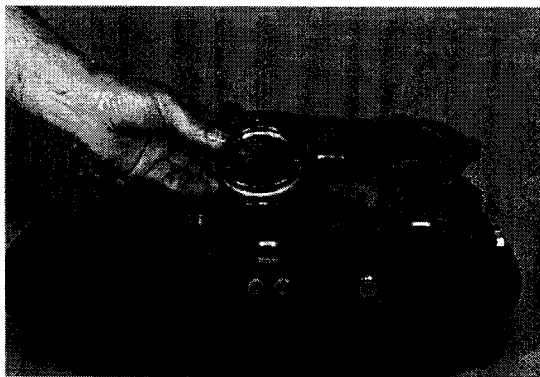


Figure 354

Remove oil distributor.

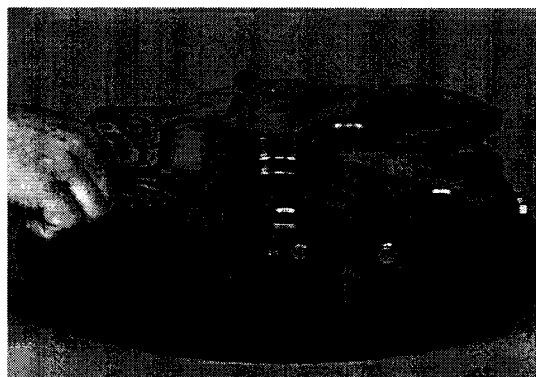


Figure 357

Remove oil distributor sleeve set screw.



Figure 355

Remove converter oil seal.

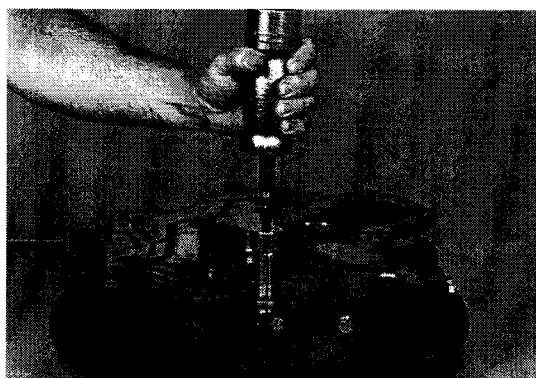


Figure 358

Using a hammer puller as shown, remove oil distributor sleeve (high and 3rd).

Disassembly converter housing assembly

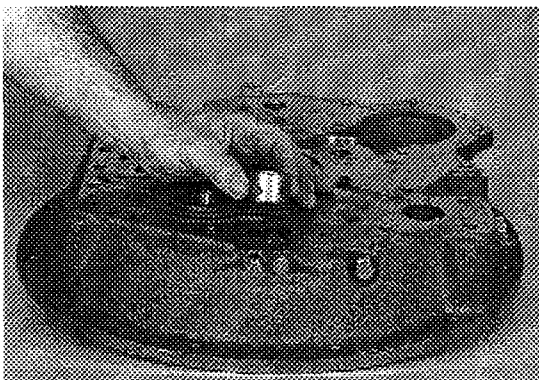


Figure 359
Sleeve removed.

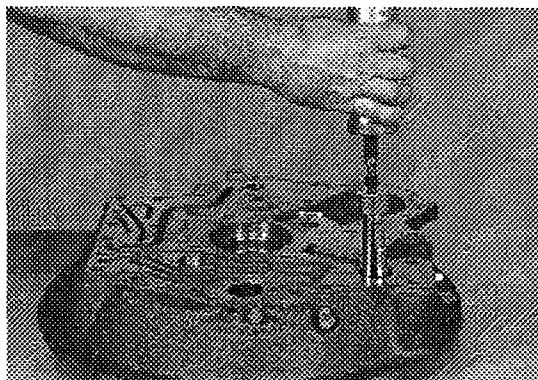


Figure 362
Using a hammer puller as shown, remove oil distributor sleeve (1st and 2nd).

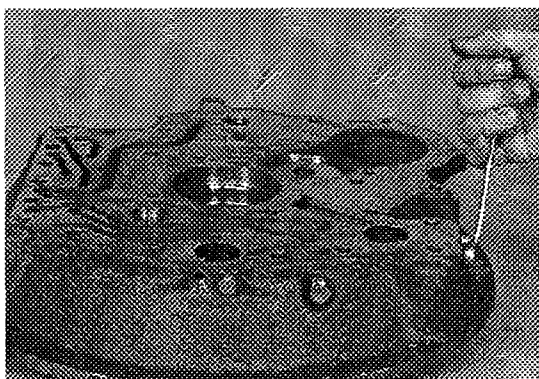


Figure 360
Remove converter housing plug (1st and 2nd clutch shaft).

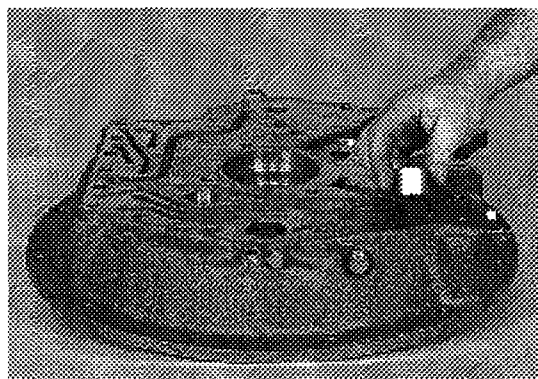


Figure 363
Sleeve removed.

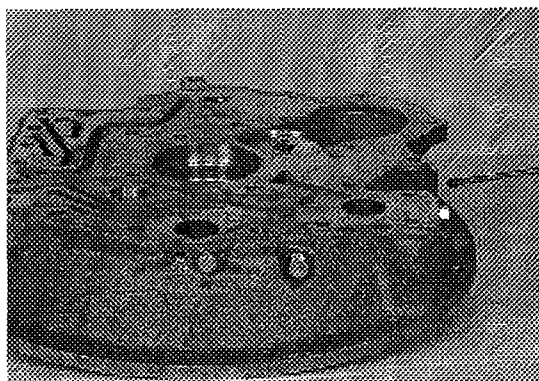
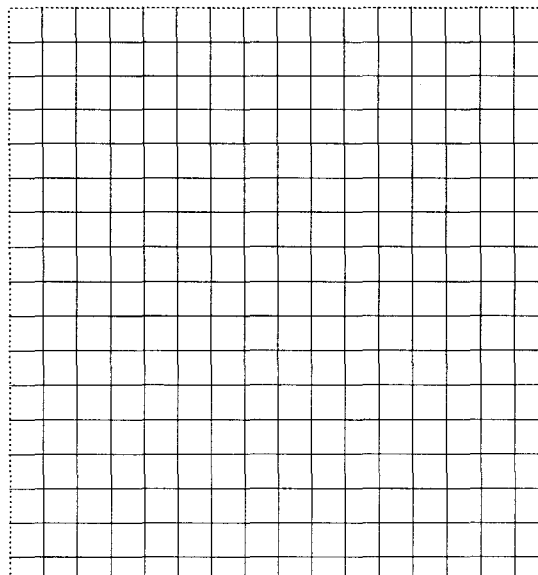


Figure 361
Remove oil distributor sleeve set screw.



Reassembly converter housing

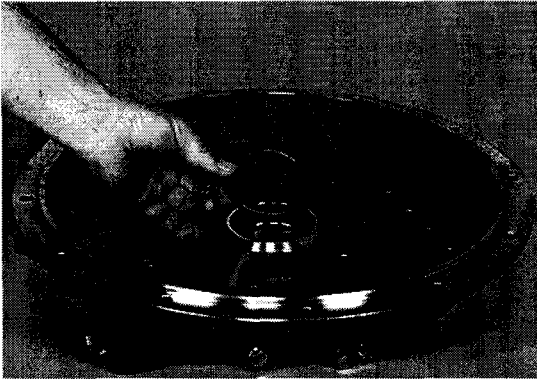


Figure 364

Apply a very light coat of Permatex #2 to the outer diameter of the converter housing oil seal. Press seal in housing with lip of seal in. Refer to the cleaning and inspection pages.

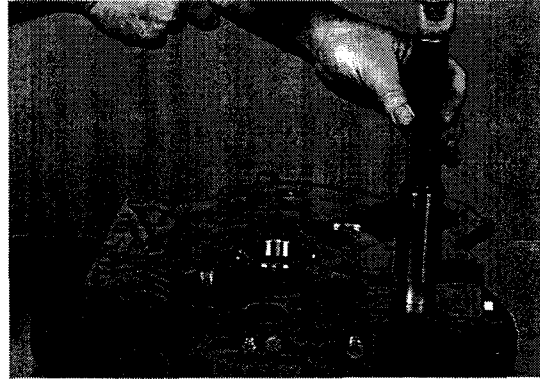


Figure 367

Install 1st and 2nd clutch shaft oil distributor sleeve in converter housing, with inside diameter chamfer up, and the notch in the distributor aligned up with the retaining set screw hole in the converter housing.

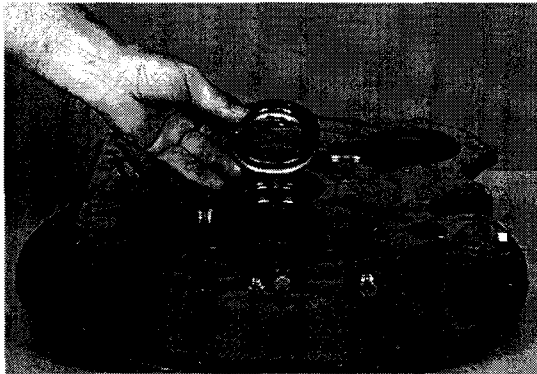


Figure 365

Install oil distributor in converter housing with long hub towards oil seal.

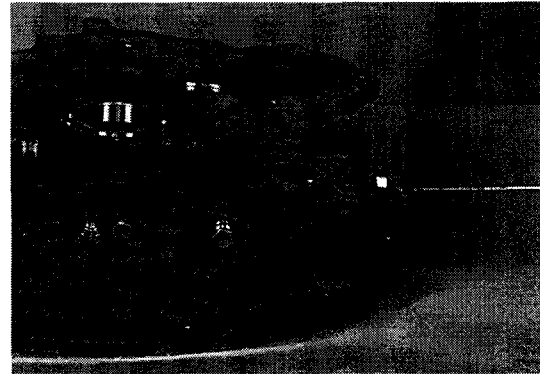


Figure 368

Apply Loctite #243 to threads of sleeve set screw (**NOTE:** this screw has a hole in it. Use caution as not to allow any loctite to plug hole). Install set screw in converter housing and in oil distributor.

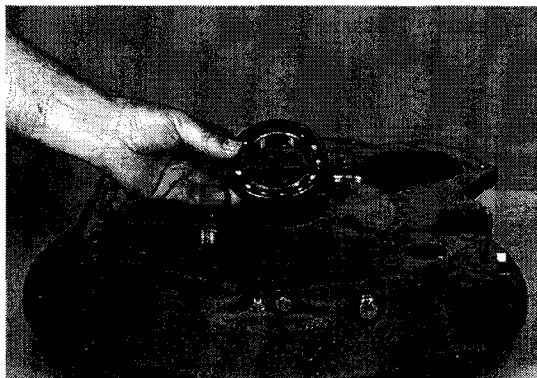


Figure 366

Press converter bearing in housing against shoulder.



Figure 369

Install set screw plug.

Reassembly converter housing

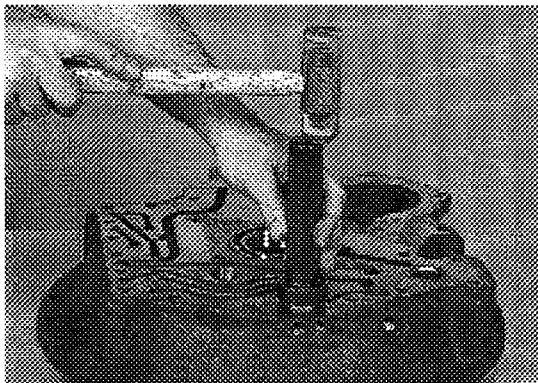


Figure 370

Install high-3rd clutch shaft oil distributor sleeve in converter housing with inside diameter chamfer up and the notch in the distributor aligned up with the retaining set screw hole in the converter housing.

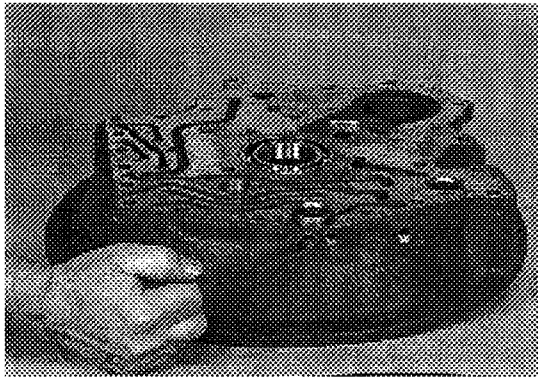


Figure 371

Apply loctite #243 to threads of sleeve set screw. **(NOTE:** this set screw has a hole in it. Use caution as not to allow any loctite to plug hole). Install set screw in converter housing and in oil distributor.

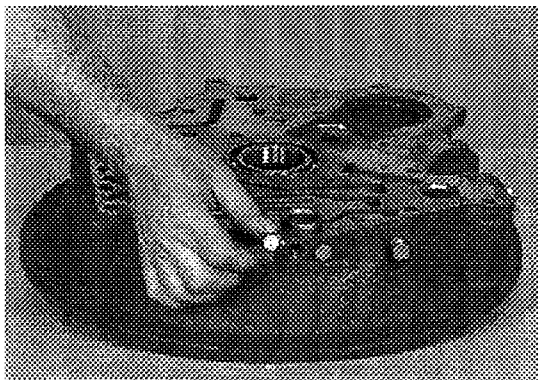


Figure 372

Install set screw plug.

Reassembly transmission

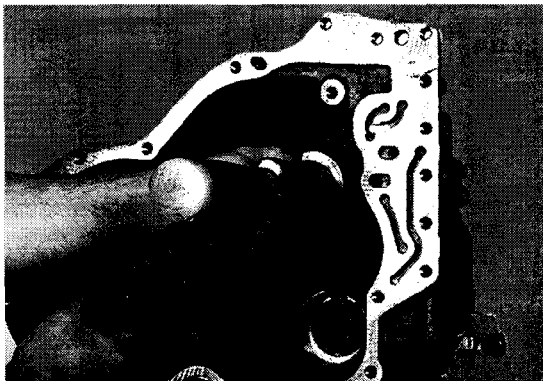


Figure 373

Install forward - reverse oil distributor sleeve in transmission case with inside diameter chamfer out (towards front of transmission) and the notch in the distributor aligned up with the retaining set screw hole in the transmission case. Refer to the cleaning and inspection pages.

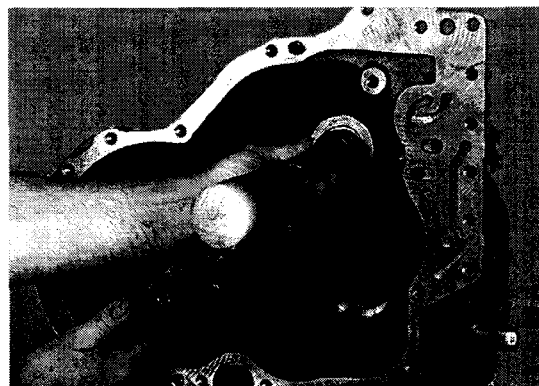


Figure 376

Install reverse and forward clutch shaft rear bearing in transmission case.



Figure 374

Apply Loctite #243 and install set screw in transmission case and in oil distributor sleeve.



Figure 377

Position a new "O"-ring on lower end of the modulation valve sleeve and spring assembly. Install "O"-ring on other valve sleeve.

NOTE: for single modulation and hydraulic inching see section 11.1.

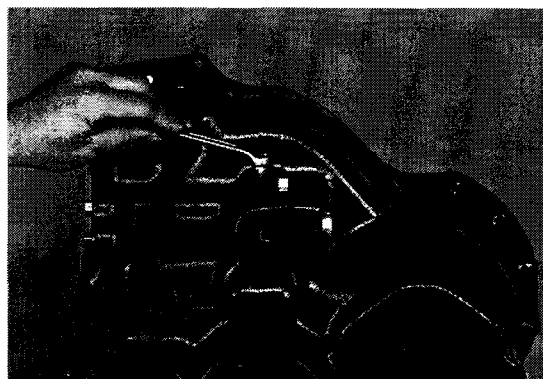


Figure 375

Install set screw plug.

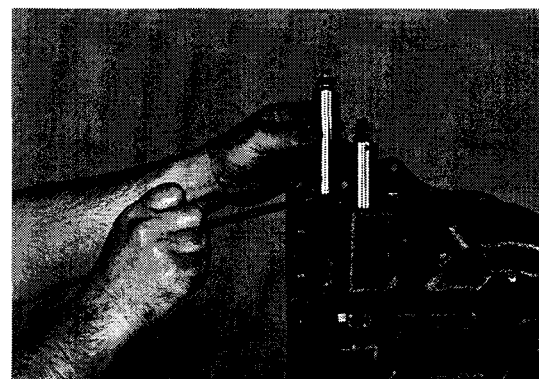


Figure 378

Install valve or valves in transmission case.

Reassembly transmission

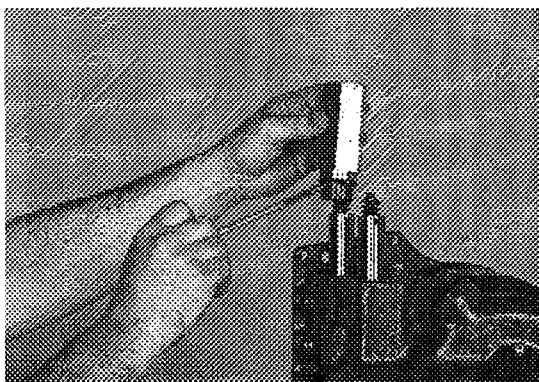


Figure 379

Position a new "O"-ring on modulator valve housing.

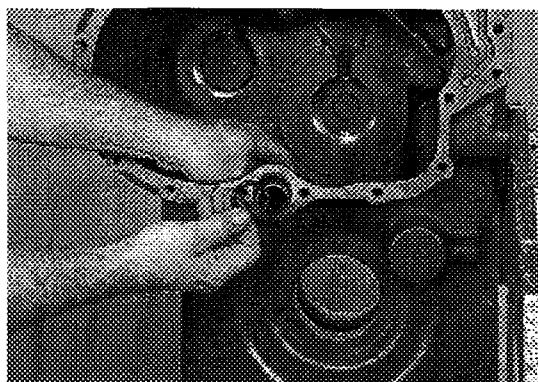


Figure 382

Push supply tube through opening in case and install "O"-ring.

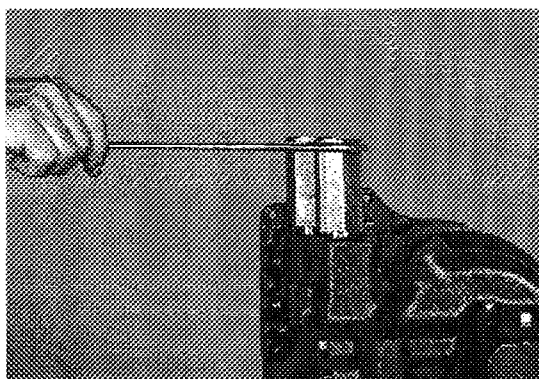


Figure 380

Install housing over sleeve and spring assembly and tighten to 60-65 LBF-FT [81-88 N.m].

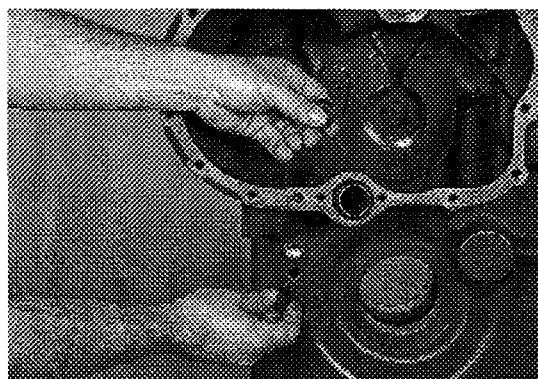


Figure 383

Install supply tube mounting screw, seal washer, clip, washer and nut. Tighten mounting screw securely (see figure 384).

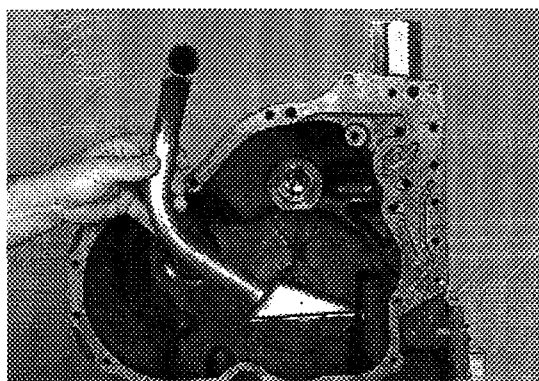


Figure 381

Position supply tube and screen assembly in transmission case sump.

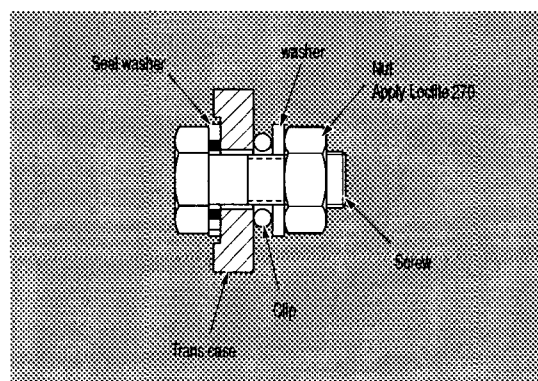


Figure 384

Reassembly transmission

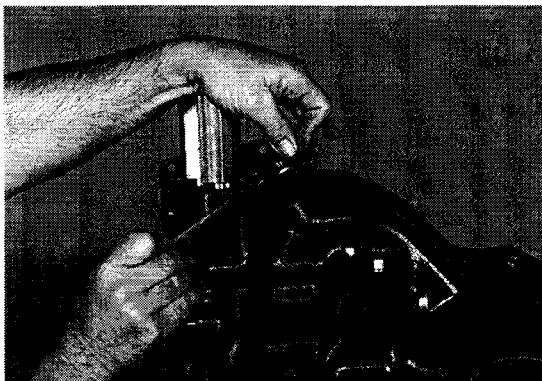


Figure 385

Install sensor hole plug and "O"-ring.



Figure 388

Install output shaft inner bearing locating ring in rear of transmission.

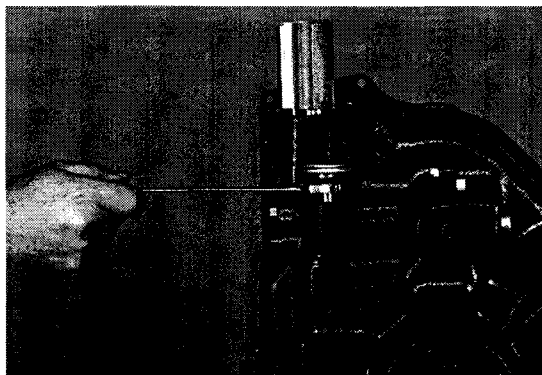


Figure 386

Install air breather.

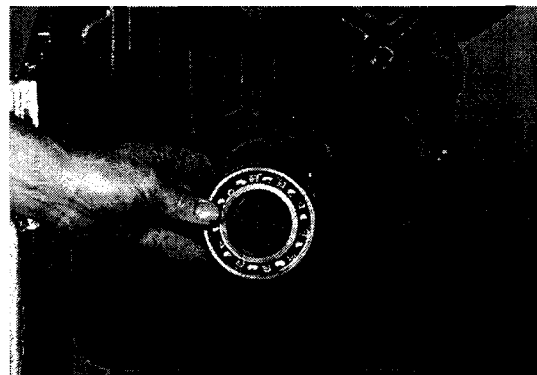


Figure 389

Install rear bearing in case against locating ring.

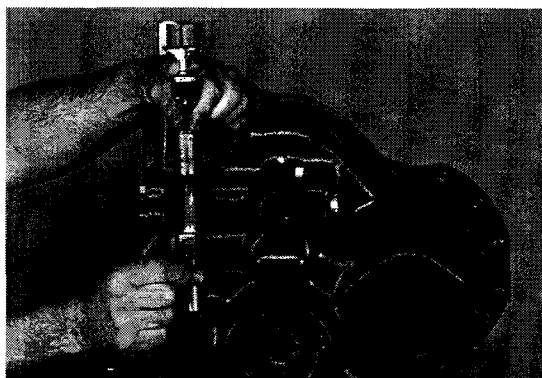


Figure 387

Install dipstick tube and dipstick.

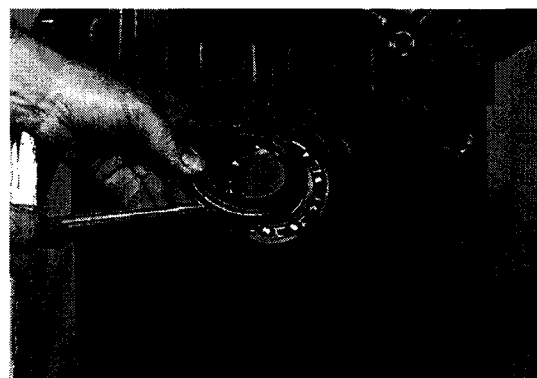


Figure 390

Install new "O"-ring on rear oil seal sleeve.



Reassembly transmission

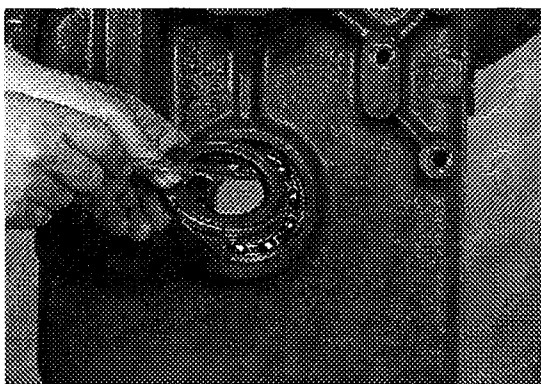


Figure 391

Apply a very light coat of Permatex #2 to the outer diameter of the output flange oil seal; press oil seal in oil seal sleeve. Oil seal must be flush with one side of face of oil seal sleeve and lip of seal must be in. Position oil seal sleeve in transmission case with recessed portion of oil seal towards output bearing. This leaves space between oil seal and output bearing.



Figure 394

Install rear output flange and shaft through output oil seal. Align splines on shaft with splines on output gear. Install shaft through gear. Use caution as not to damage oil seal. Brake disc is an option and will not be on all units.

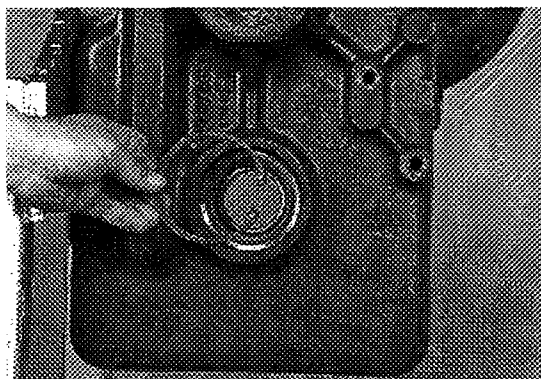


Figure 392

Install oil seal sleeve retainer ring.

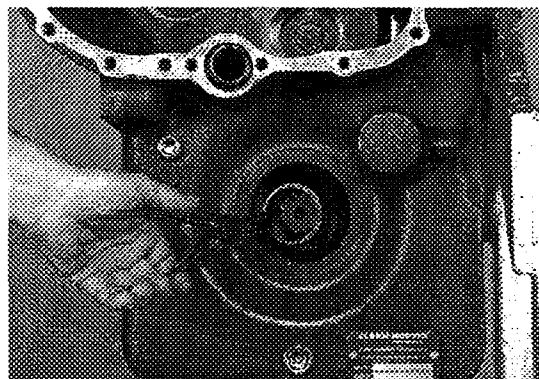


Figure 395

Install output shaft to output gear retainer ring.

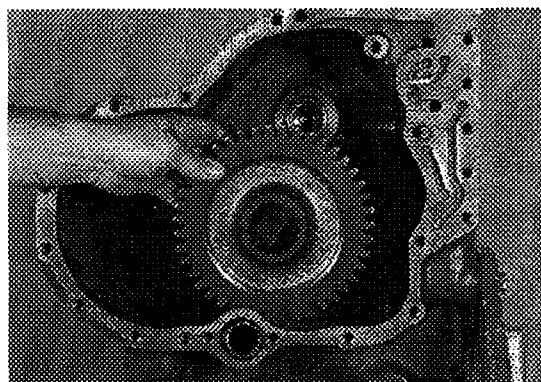


Figure 393

From front of transmission case, position output gear with long hub of gear towards front.

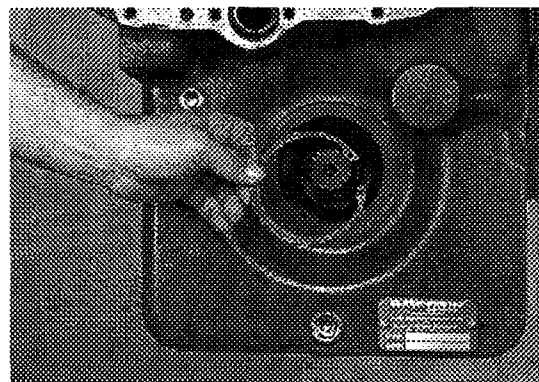


Figure 396

Install front output shaft bearing locating ring.

Reassembly transmission

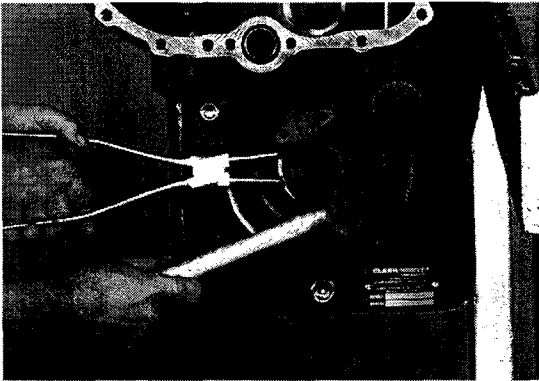


Figure 397

Position front output flange and bearing assembly on output shaft. Using snap ring pliers as shown. Squeeze snap ring ends together and tap flange assembly into case until snap ring can seat in snap ring groove.

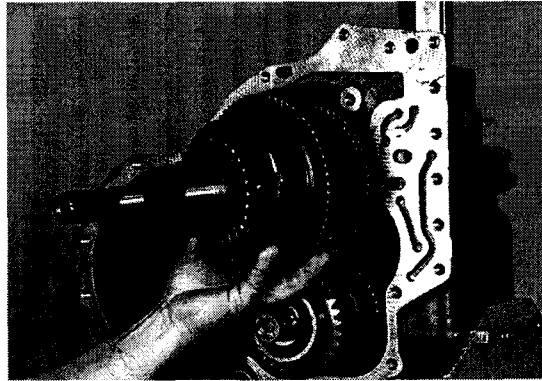


Figure 400

Install forward and reverse clutch assembly.

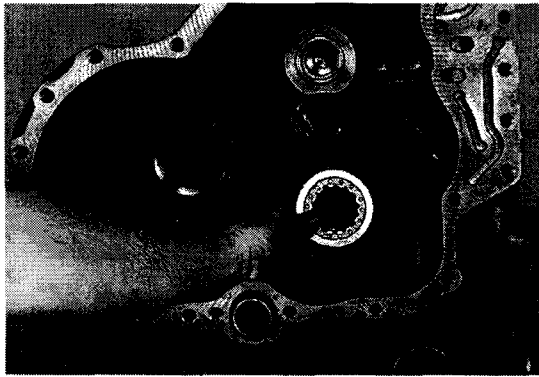


Figure 398

Install high and 3rd clutch shaft rear bearing outer race.

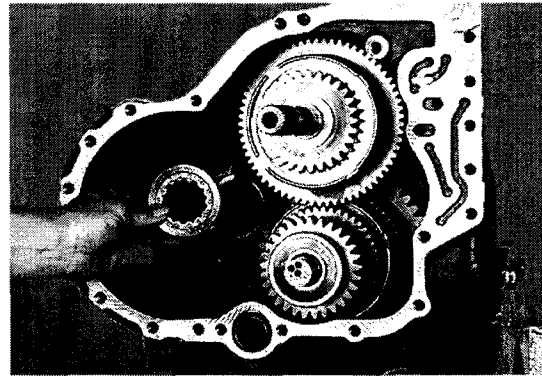


Figure 401

Install 1st and 2nd clutch shaft rear bearing outer race.

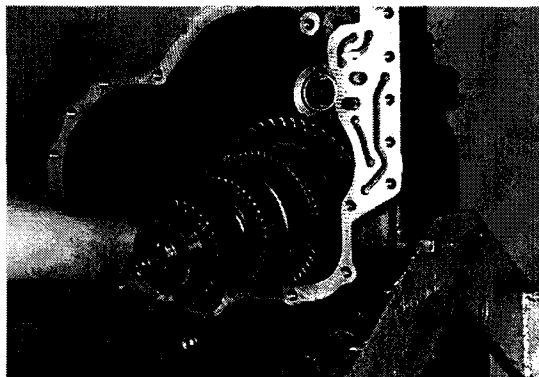


Figure 399

Install high and 3rd clutch assembly.

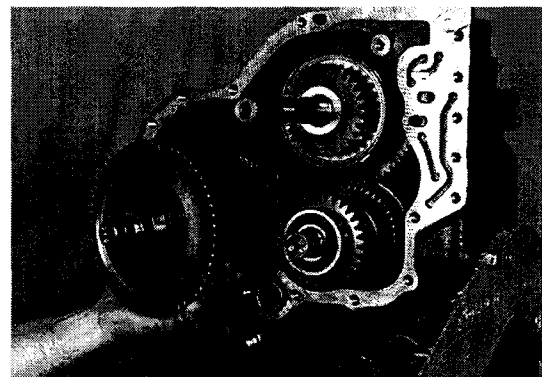


Figure 402

Install 1st and 2nd clutch assembly.



Reassembly transmission

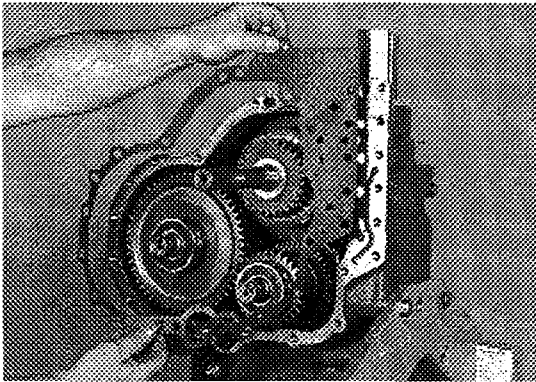


Figure 403

Position new transmission case to converter housing gasket on transmission case. A light coat of grease will hold gasket in position.

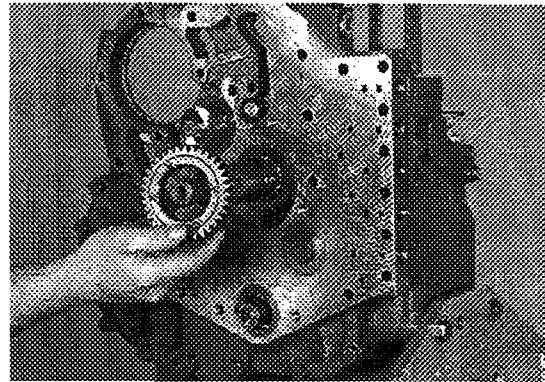


Figure 406

Position impeller hub gear on stator support.

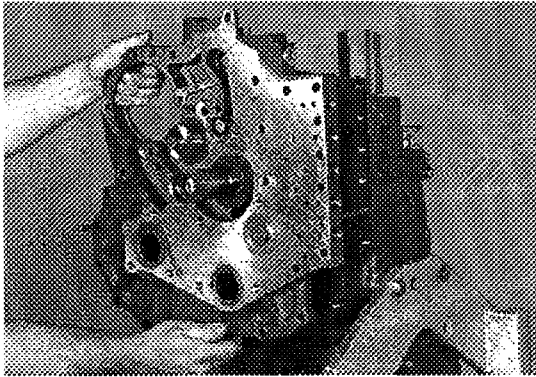


Figure 404

Install spacer plate assembly on transmission, aligning clutch shaft with openings in spacer plate.
Use caution as not to damage oil sealing rings.

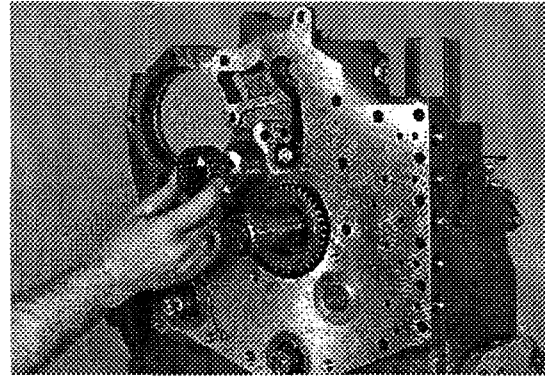


Figure 407

Install pump idler gear bearing on idler shaft.

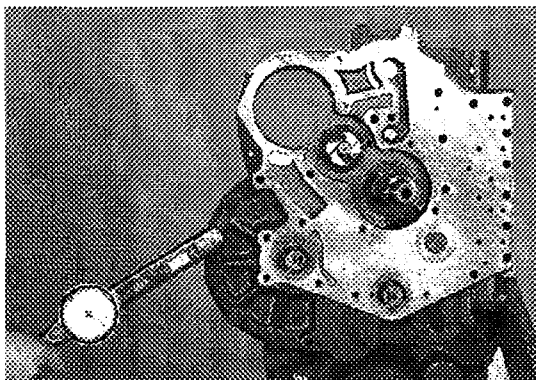


Figure 405

Spacer plate must be tight against transmission case. Do not use bolts to pull spacer plate and case together. Tap spacer plate into position at dowel pins. Install spacer plate to transmission case capscrews. Tighten capscrews to specified torque.

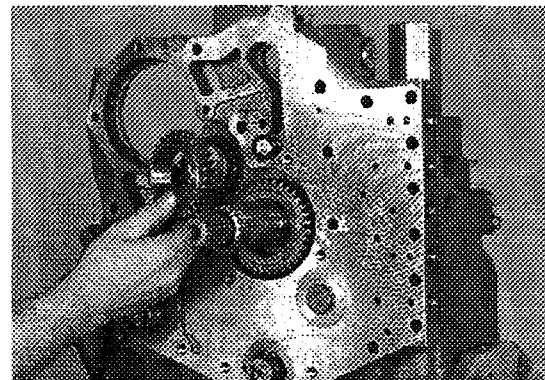


Figure 408

Install pump idler on bearing.

Reassembly transmission

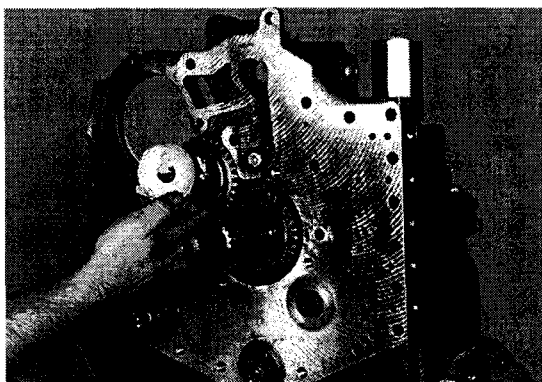
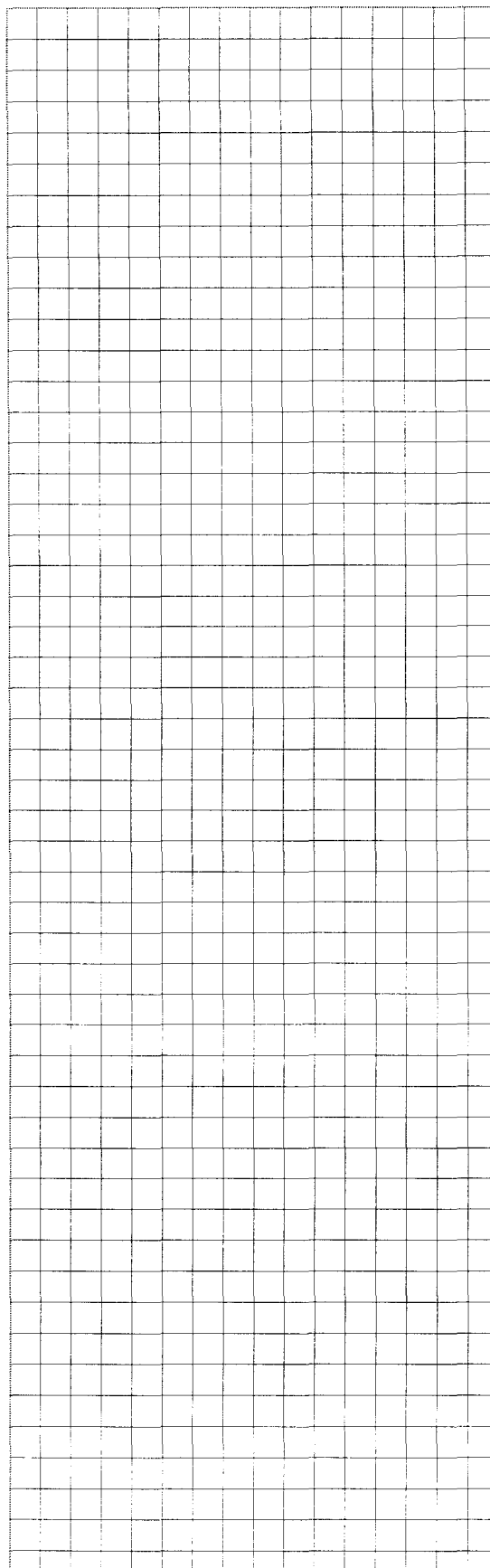
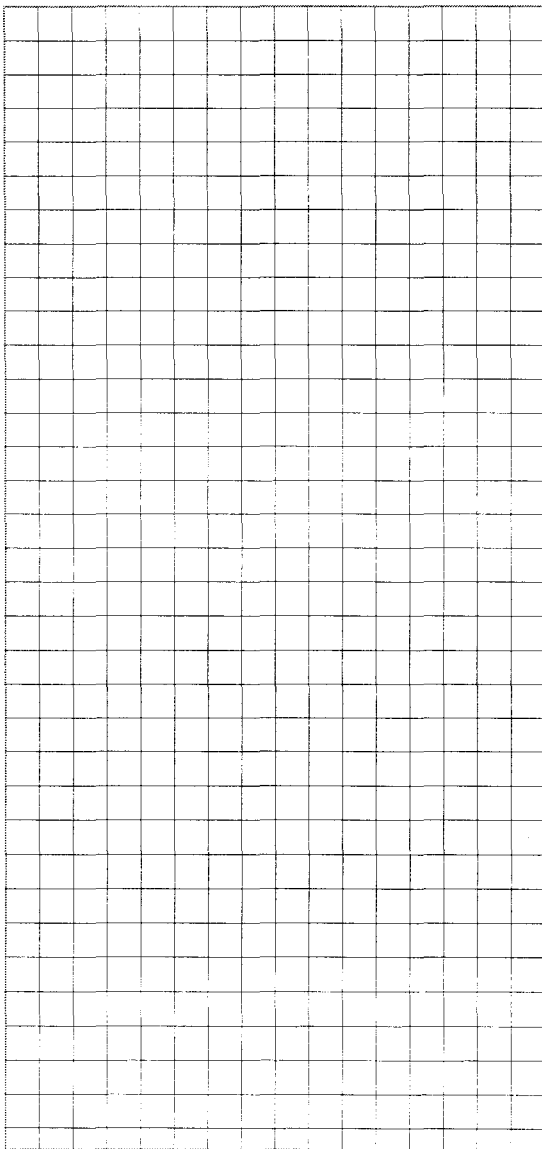


Figure 409

Install idler gear thrust washer, aligning hole with roll pin.



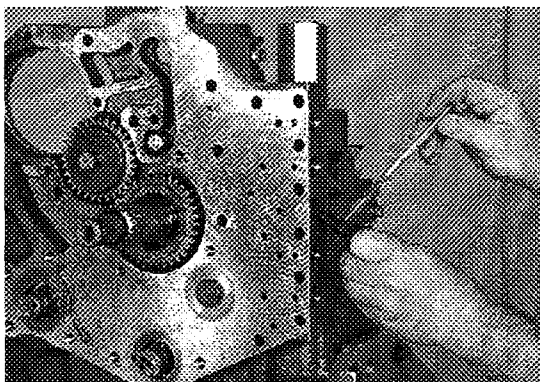


Figure 410

Install bore plug and "O"-rings in center hole on 3-speed transmissions only. Refer to the cleaning and inspection pages.

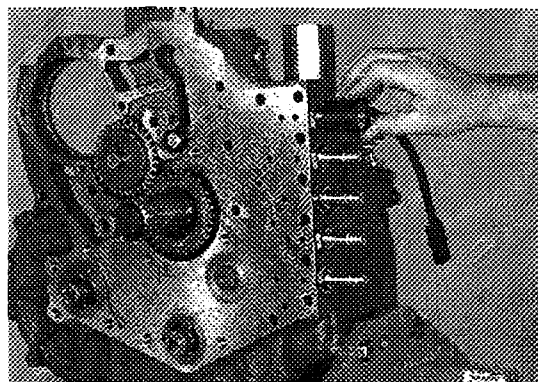


Figure 413

With cartridge to coil "O"-ring in place, position solenoid coil on cartridge.

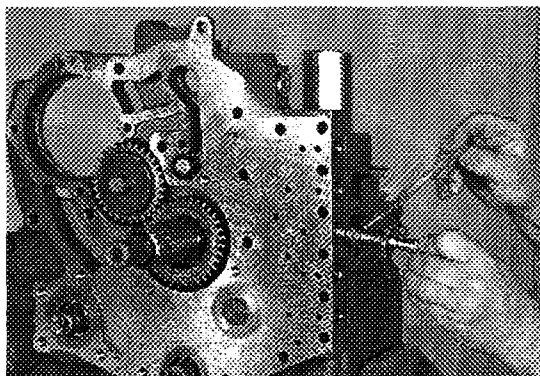


Figure 411

With "O"-rings in position, install solenoid cartridges.

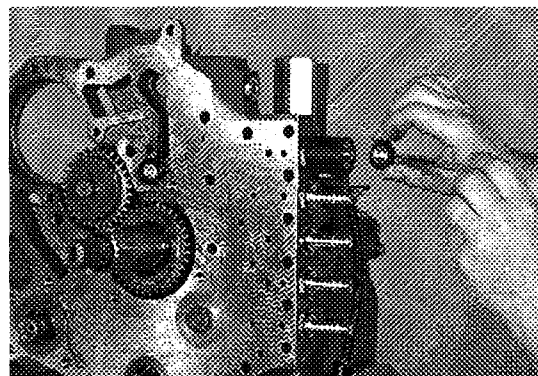


Figure 414

With new "O"-ring in position, install coil to cartridge nut. Tighten cartridge nut per assembly instruction drawing.

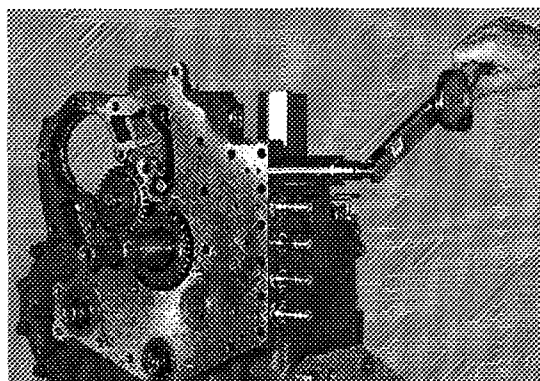


Figure 412

Tighten cartridges to specified torque. See assembly instruction drawing.

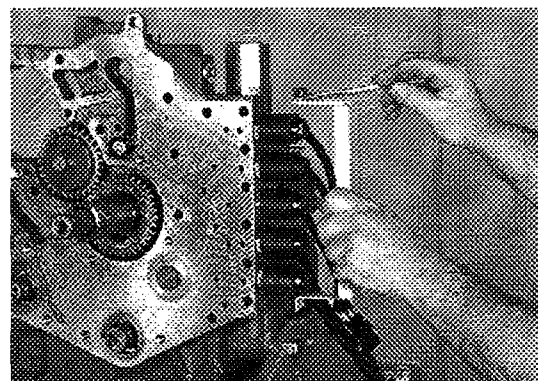


Figure 415

Install solenoid protection cover and mounting screws. Tighten screws to specified torque.

Reassembly transmission

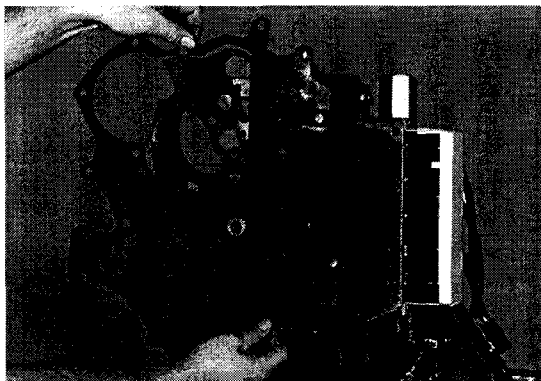


Figure 416

Position spacer to converter housing gasket on spacer. A light coat of grease will hold gasket in place.

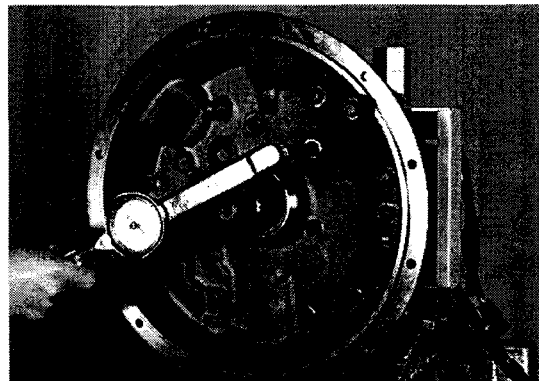


Figure 419

Tighten bolts to specified torque. See note in figure 417.

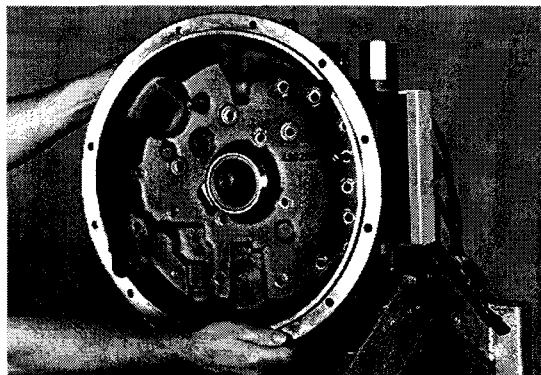


Figure 417

The use of aligning studs will facilitate converter housing to spacer installation. The transmission could be laid down to align the end of the clutch shafts into sealing ring sleeves in converter housing. Do not force this operation. Converter housing must be tight against transmission spacer.

NOTE: Do not use bolts to pull converter housing in place.

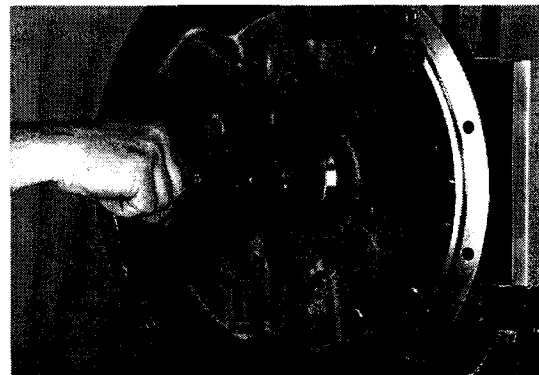


Figure 420

Install converter locating ring on turbine shaft.

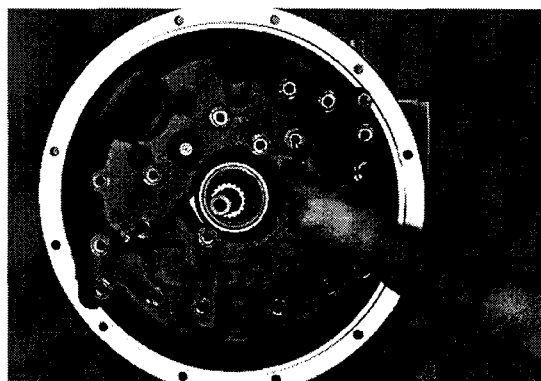


Figure 418

Install converter housing to transmission case screws and lockwashers. See assembly instructions for proper screw location and installation.

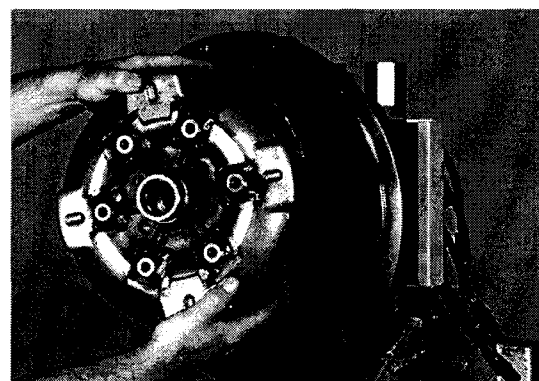


Figure 421

Position converter assembly on stator support and turbine shaft.



Reassembly transmission

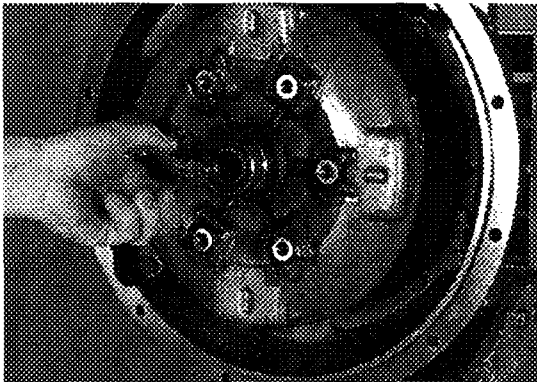


Figure 422

Install converter assembly retainer ring.

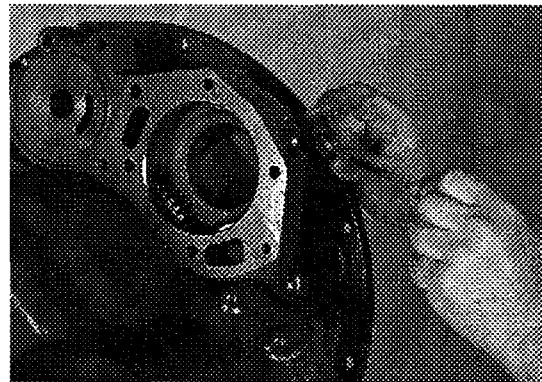


Figure 425

Install sensor hole plug end "O"-ring.

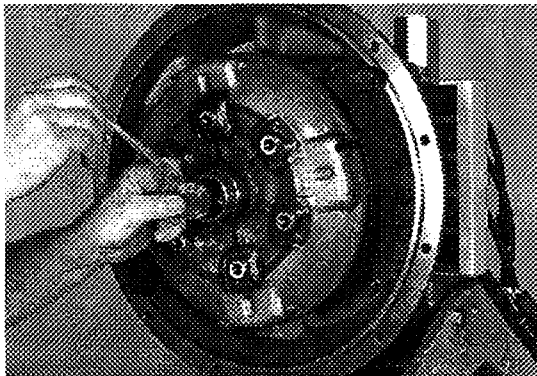


Figure 423

With new "O"-ring in place, install bore plug in converter assembly.

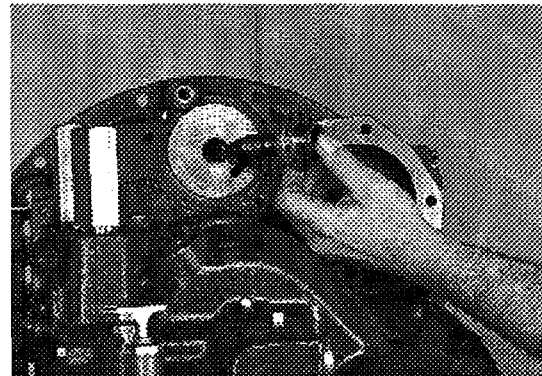


Figure 426

Install regulator sleeve assembly in converter housing.

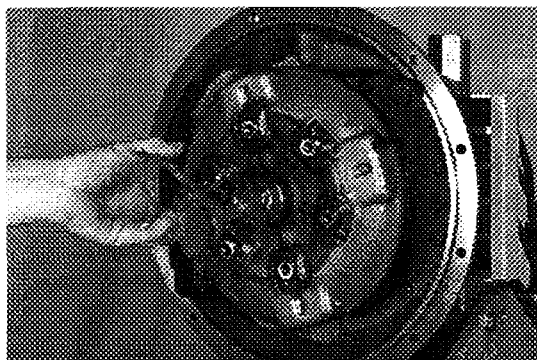


Figure 424

Install bore plug retainer ring.

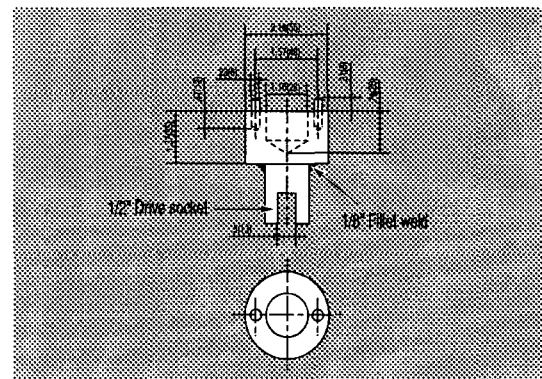


Figure 427

Using a special tool tighten sleeve to 45-50 lbf.ft [61.1-67.7 N.m].

Reassembly transmission

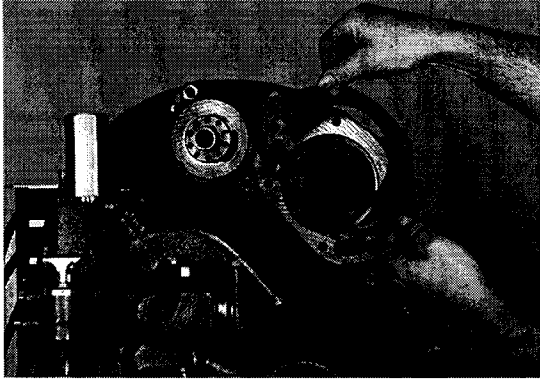


Figure 428

Position new charging pump to converter housing gasket.

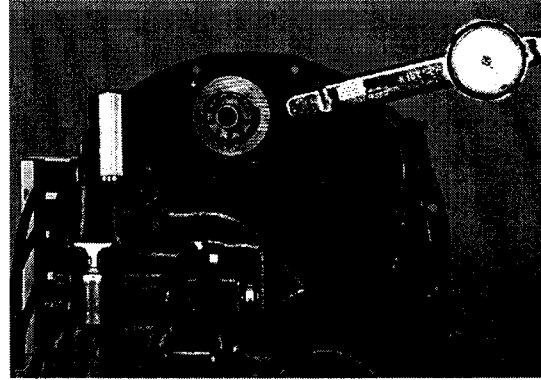


Figure 431

If auxiliary pump is used, it is not necessary to install the permanent pump hole cover. With new gasket in place, install pump hole cover on charging pump. Install bolts and washers and tighten to specified torque. See torque chart.

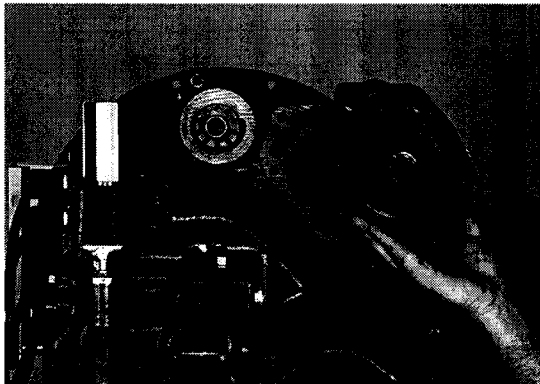


Figure 429

Install charging pump in converter housing.

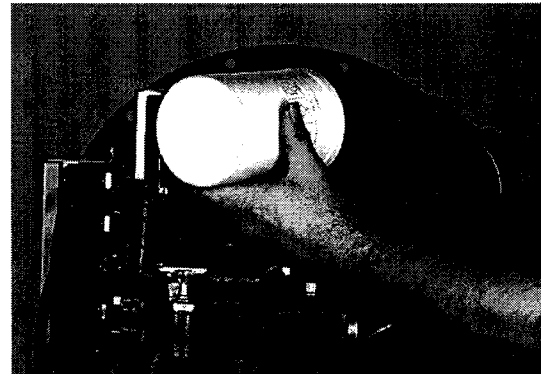


Figure 432

Install oil filter on regulating valve. Tighten filter to 20-25 lbf. ft [27-34 N.m]. If parking brake is not used proceed to figure 436.

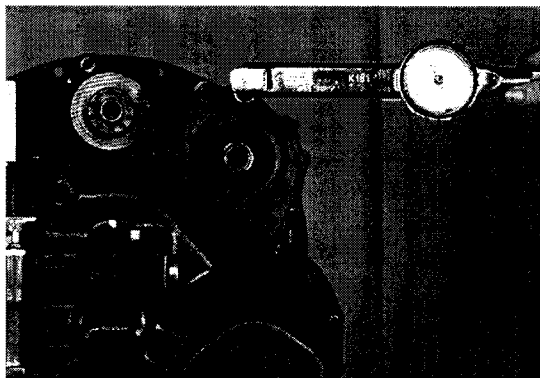


Figure 430

Install charging pump to converter housing bolts and washers and tighten to specified torque. See torque chart.

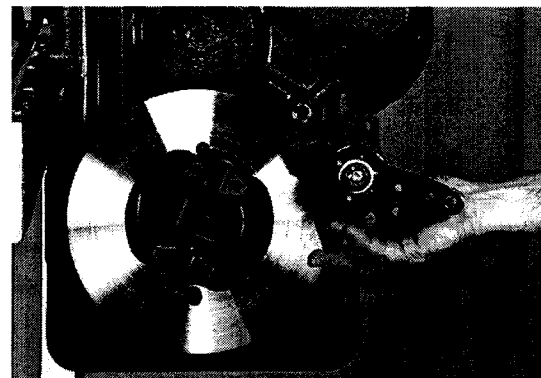


Figure 433

Position calliper brake assembly on brake disc.

Reassembly transmission

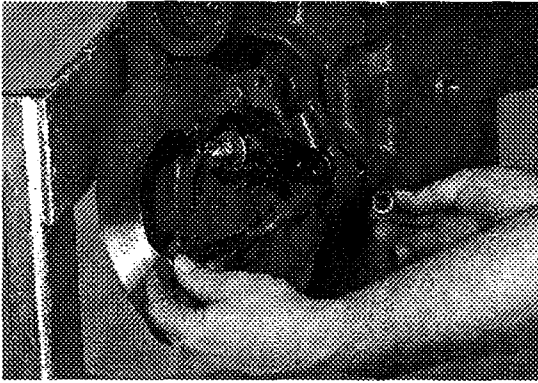


Figure 434

Install calliper brake mounting screw through brake assembly and through lock nut. Apply Loctite #262 to threads and install screw in transmission case.

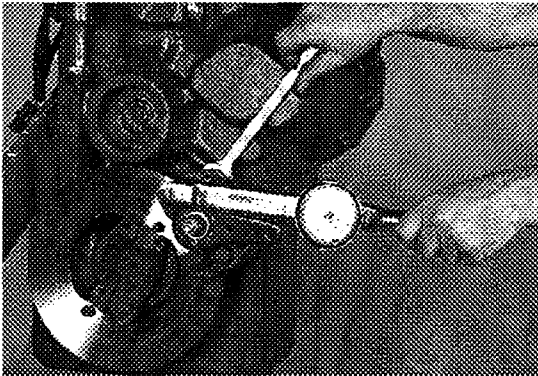


Figure 435

Mounting screws to be installed to allow free movement of calliper pads to disc. Tighten jam nut. See torque chart. See page 4-4 for brake information.

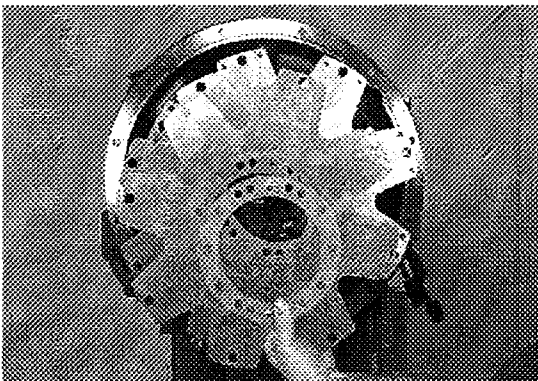
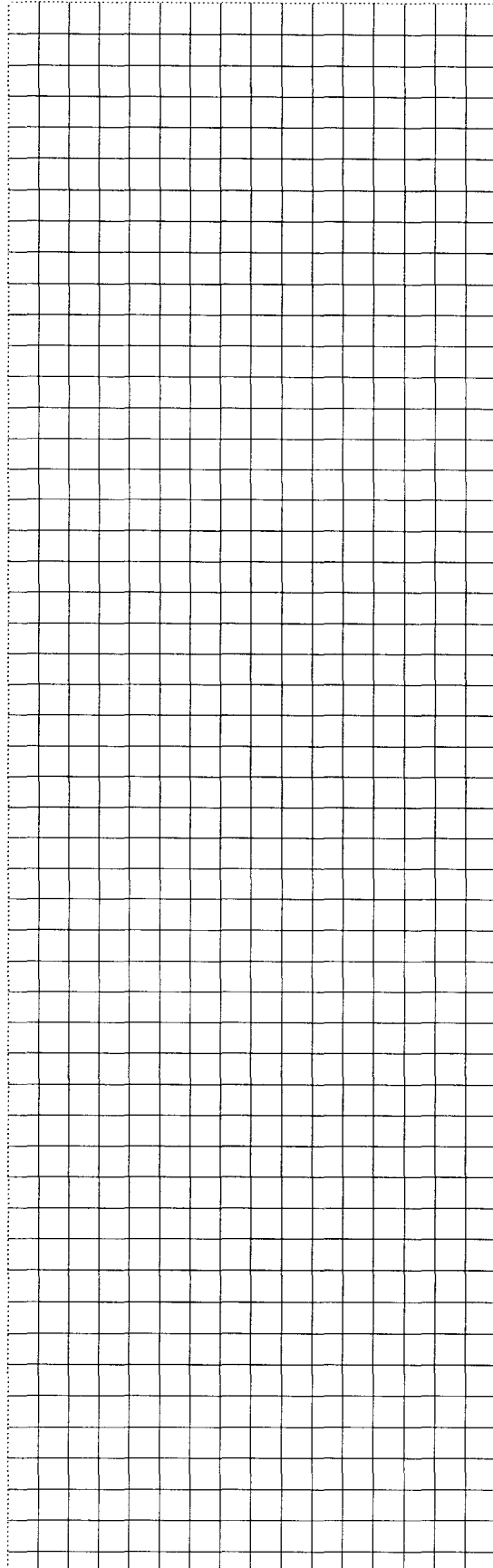


Figure 436

See special section on page 5-1 for drive plate installation.



Reassembly transmission

NOTE: The disc springs are to be used as complete assemblies and care should be taken not to intermix the individual disc springs with disc springs in another clutch or disc spring pack. Service replacement assemblies are banded together and must be replaced as assembly.

11. OPTIONS

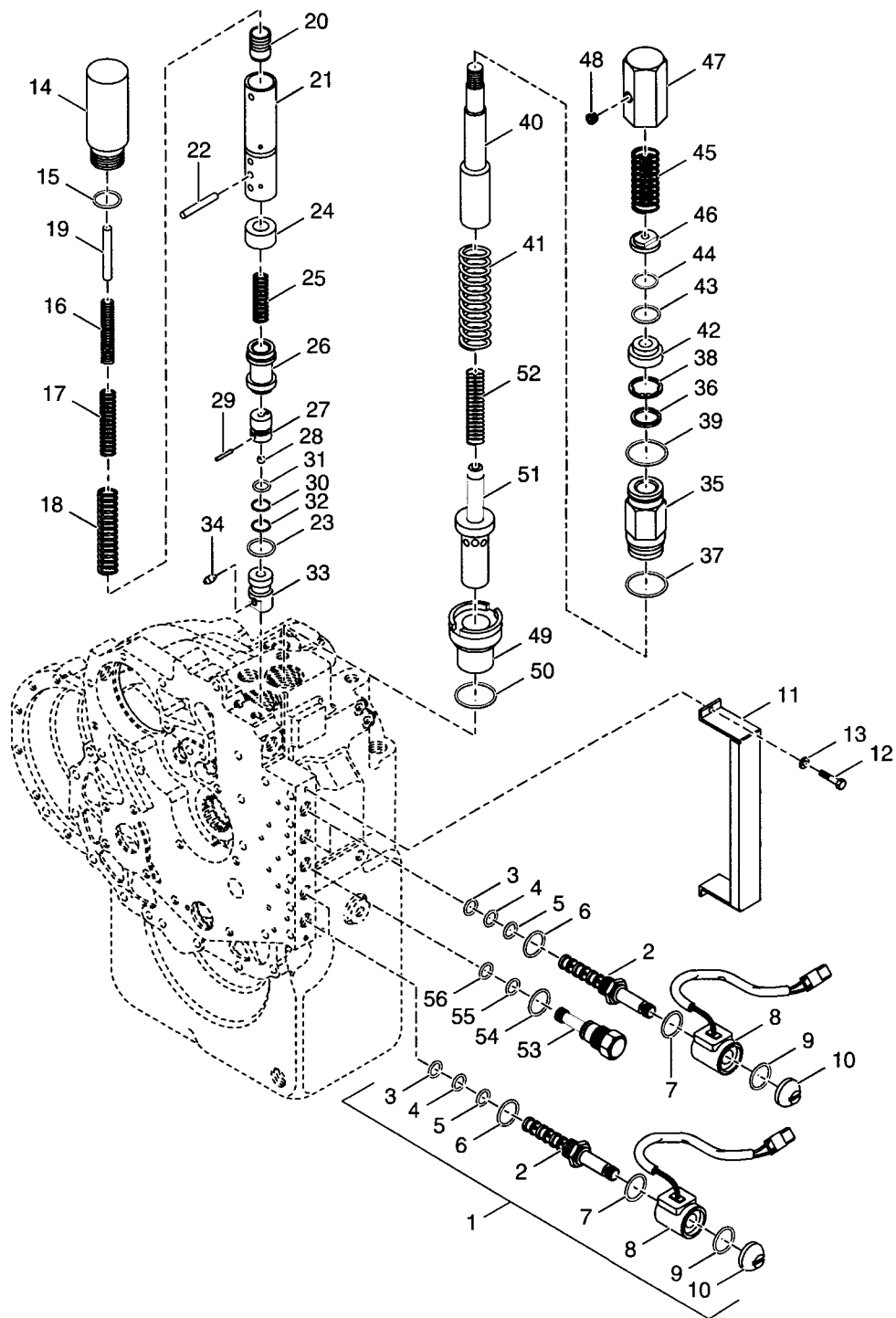
11.1 ELECTRIC CONTROL-SINGLE MODULATION HYDRAULIC ACTUATED INCHING

The information contained herein must be used in conjunction with a T12000 ID section.

11.1.1 Sectional views and parts identification

Refer to following pages.

GROUP - ELECTRIC CONTROL- SINGLE MODULATION HYDRAULIC ACTUATED INCHING



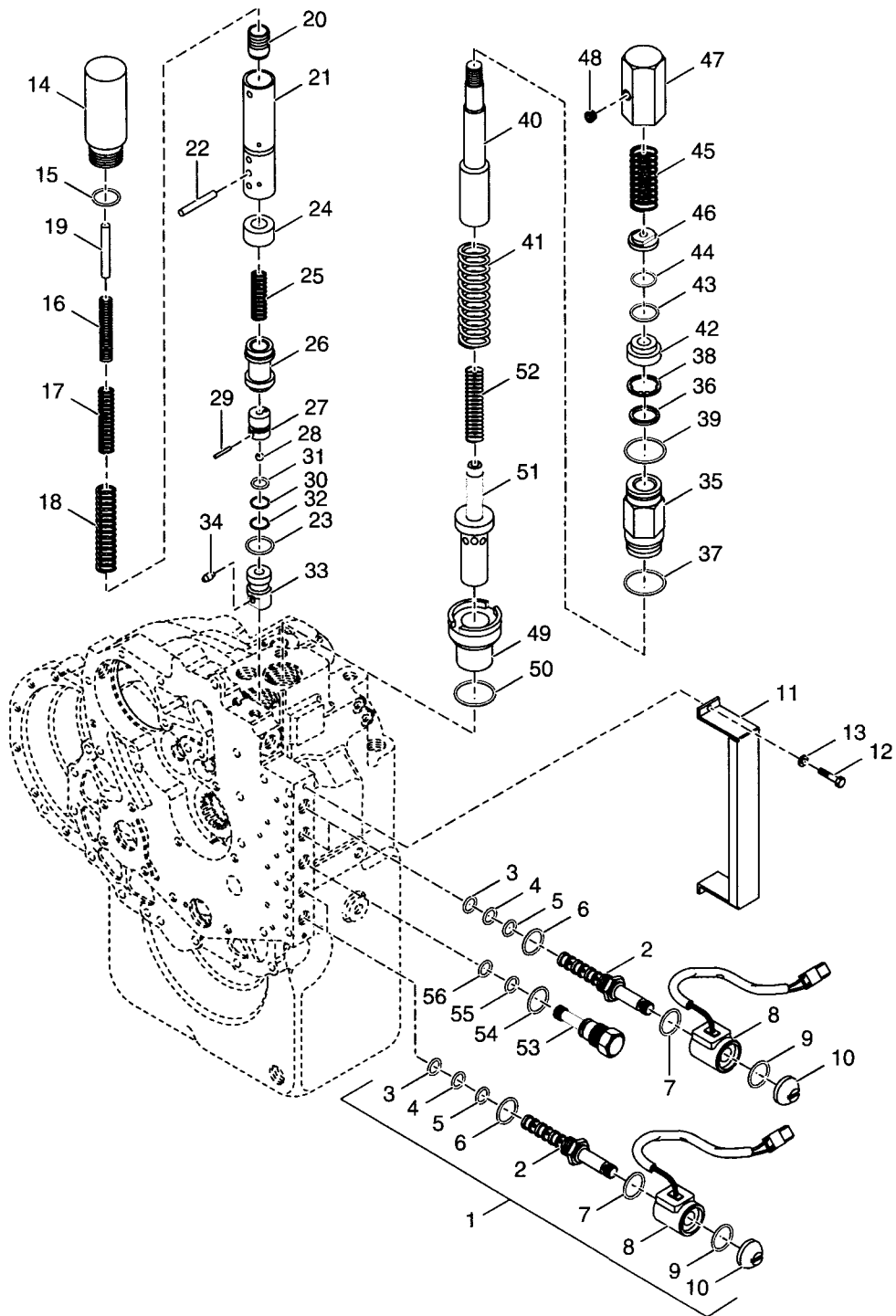
GROUP - ELECTRIC CONTROL- SINGLE MODULATION HYDRAULIC ACTUATED INCHING

Item	Description	Quantity
1	Assembly - Solenoid cartridge	5*
2	Cartridge - Valve 4-way including items 3, 4, 5 and 6	5*
3	"O"-ring - Cartridge	5*
4	"O"-ring - Cartridge	5*
5	"O"-ring - Cartridge	5*
6	"O"-ring - Cartridge	5*
7	"O"-ring - Cartridge to coil	5*
8	Coil-Solenoid	5*
9	"O"-ring-Coil to nut	5*
10	Nut - Valve cartridge retainer	5*
11	Cover - Protective	1
12	Screw - Protective cover	2
13	Lockwasher - Protective cover screw	2
14	Housing - Modulation valve	1
15	"O"-ring - Modulation housing	1
16	Spring (Inner)	1
17	Spring (Middle)	1
18	Spring (Outer)	1
19	Pin-Stop	1
20	Spool - Accumulator	1
21	Sleeve - Modulation housing	1
22	Pin - Modulation sleeve	1
23	"O"-ring - Modulation sleeve	1
24	Stop - Regulator spool	1
25	Spring - Regulator spool	1
26	Regulator - Spool	1
27	Sleeve - Regulator	1
28	Ball	1
29	Pin - Regulator spool sleeve	1
30	Snap ring	1
31	"O"-ring - Regulator spool sleeve	1
32	Snap ring	1
33	Sleeve - Shuttle	1
34	Spool - Shuttle	1
35	Body - Hydraulic inching	1
36	Seal - Hydraulic inching body	1
37	"O"-ring - Hydraulic inching body to case	1
38	Snap ring - Hydraulic inching body to cover	1
39	"O"-ring - Hydraulic inching body to cover	1
40	Rod - Hydraulic inching actuator	1
41	Spring - Inching return	1
42	Piston - Hydraulic inching (Lower)	1
43	Seal - Hydraulic inching piston	1
44	"O"-ring - Piston	1
45	Spring - Piston	1
46	Piston - Hydraulic inching (Upper)	1
47	Cover - Hydraulic inching	1
48	Plug - Hydraulic inching conver	3
49	Sleeve - Inching	1
50	"O"-ring - Inching sleeve	1

* quantity= 4, with 3-speed.

** used with 3-speed only.

GROUP - ELECTRIC CONTROL- SINGLE MODULATION HYDRAULIC ACTUATED INCHING



GROUP - ELECTRIC CONTROL- SINGLE MODULATION HYDRAULIC ACTUATED INCHING

Item	Description	Quantity
50	"O"-ring - Inching sleeve	1
51	Spool - Inching	1
52	Spring - Inching regulator	1
53	Plug - Solenoid bore plug, used at forward-High and Low	1**
54	"O"-ring - Plug	1**
55	"O"-ring - Plug	1**
56	"O"-ring - Plug	1**

* quantity= 4, with 3-speed.

** used with 3-speed only.

Single modulation and hydraulic inching removal

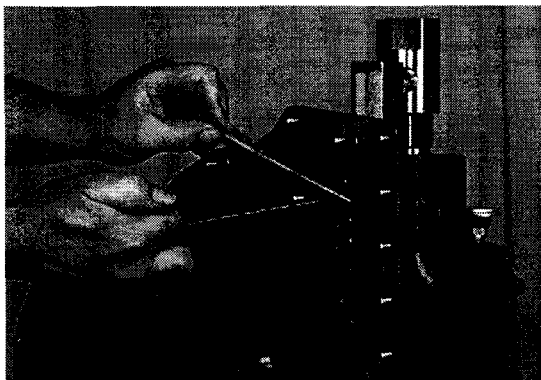


Figure 1
If inching is used install plug as shown.

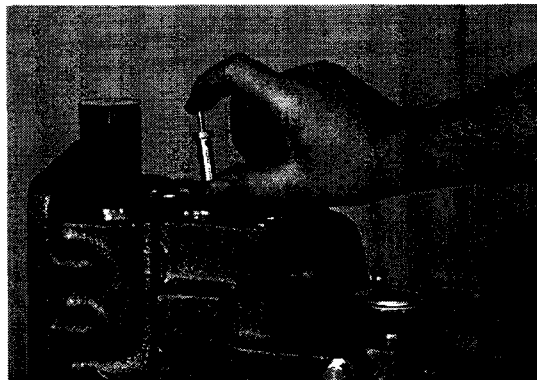


Figure 4
Remove inching spool.

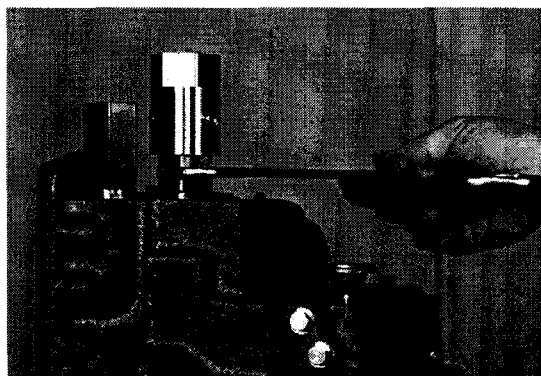


Figure 2
Remove hydraulic inching actuator.

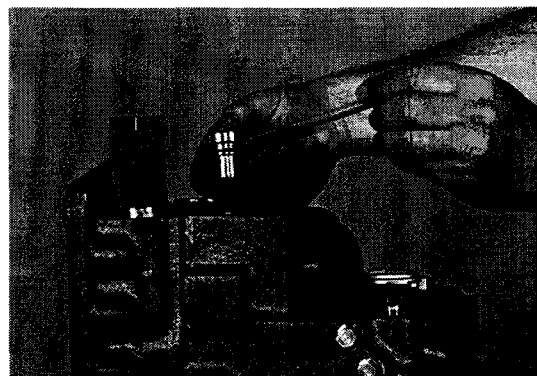


Figure 5
Remove inching sleeve and "O"-ring.



Figure 3
Remove inching regulator spring.

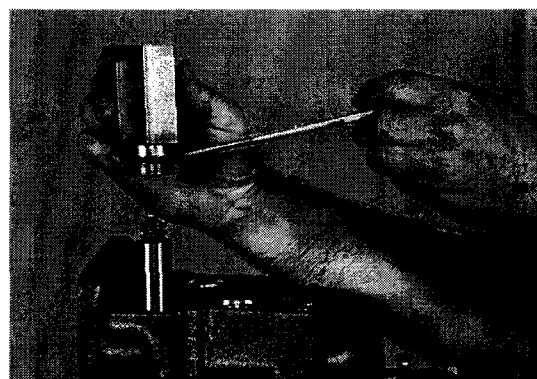


Figure 6
Remove modulator valve housing and "O"-ring.

Single modulation and hydraulic inching removal

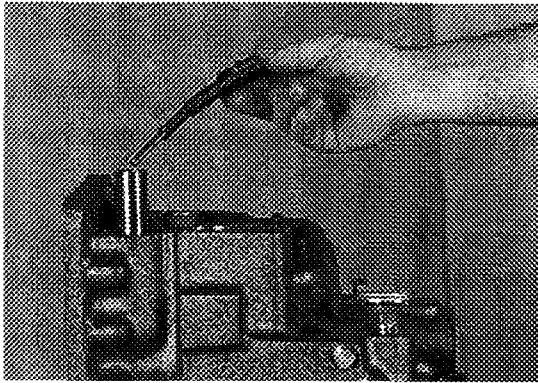


Figure 7

Remove modulator valve outer, middle, and inner springs and spring stop.

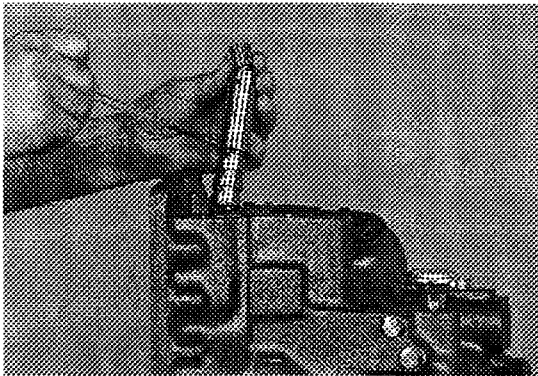


Figure 8

Remove modulation housing sleeve and accumulator spool.

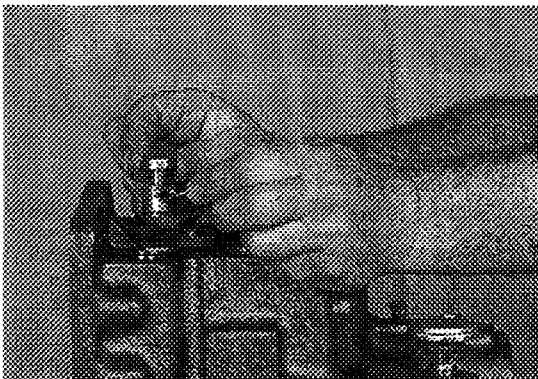


Figure 9

Remove shuttle sleeve and spool.

Disassembly single modulator valve assembly

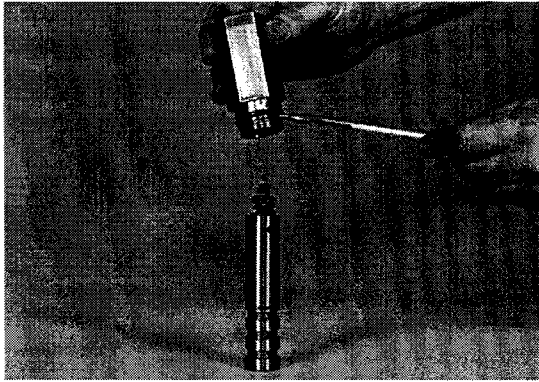


Figure 10
Remove modulator valve body "O"-ring.

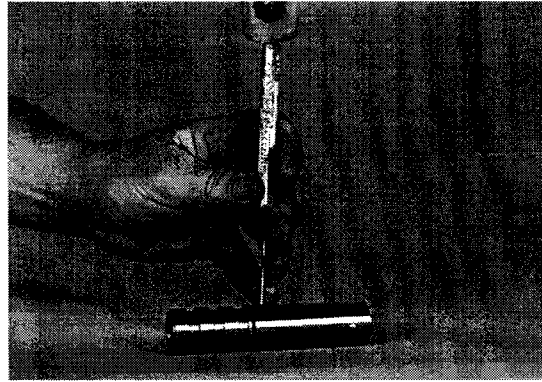


Figure 13
Remove modulator sleeve pin.

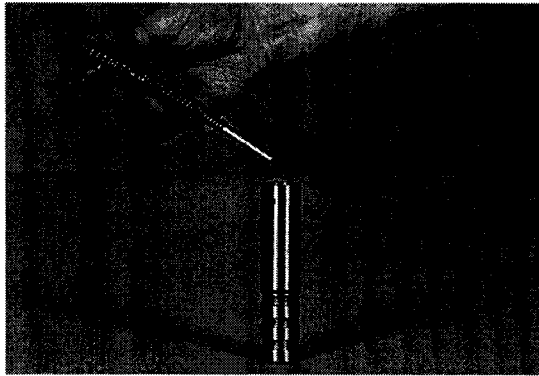


Figure 11
Remove modulator valve outer, middle and inner springs and spring stop ref. figure 7.

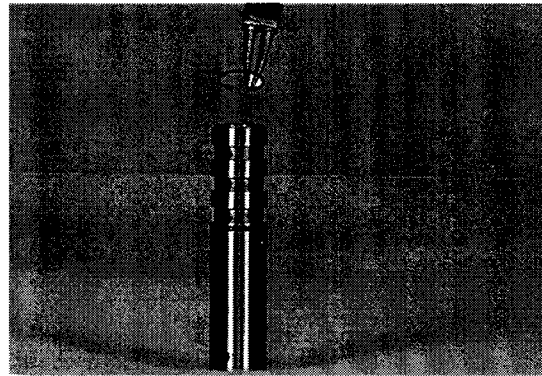


Figure 14
Remove regulator spool assembly retainer ring.

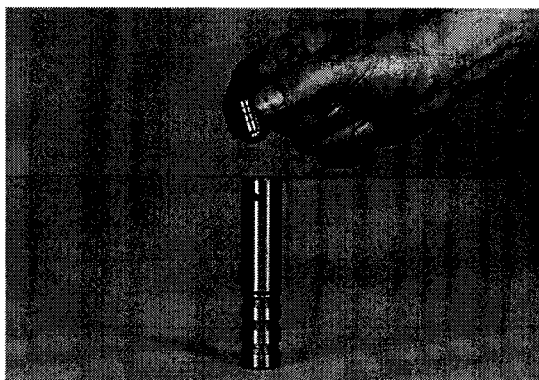


Figure 12
Remove accumulator spool. Ref. figure 8.

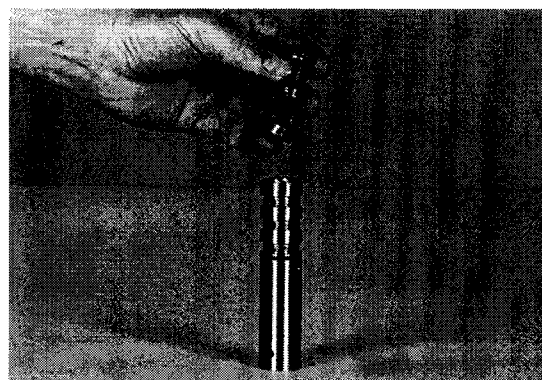


Figure 15
Remove regulator spool stop, spring and spring and sleeve assembly .

Disassembly single modulator valve assembly

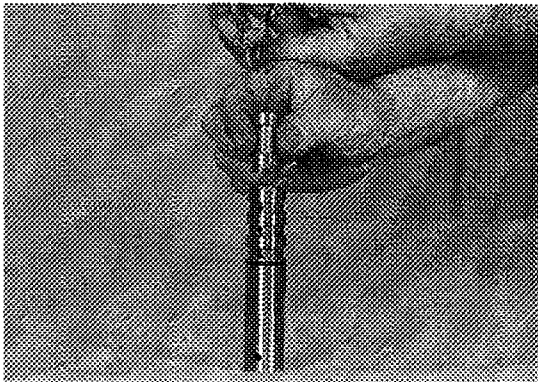


Figure 16
Remove regulator spool sleeve retainer ring.

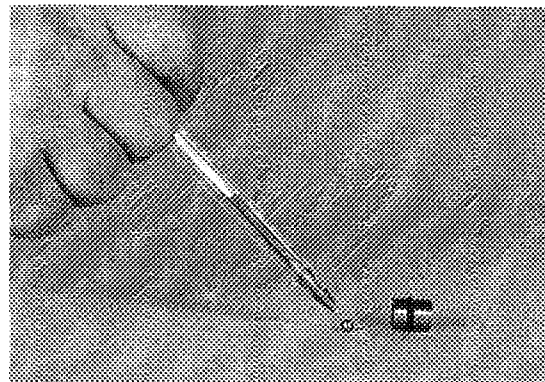


Figure 19
Remove check ball.

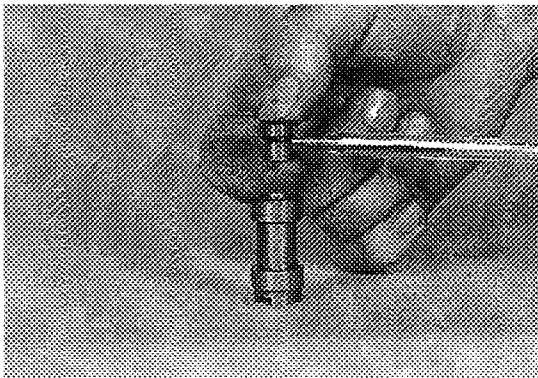


Figure 17
Remove regulator spool sleeve assembly.
Remove "O"-ring.

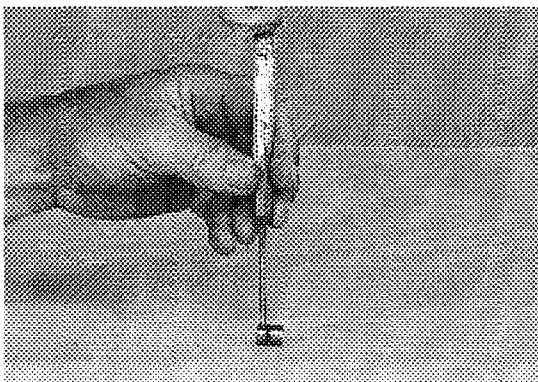
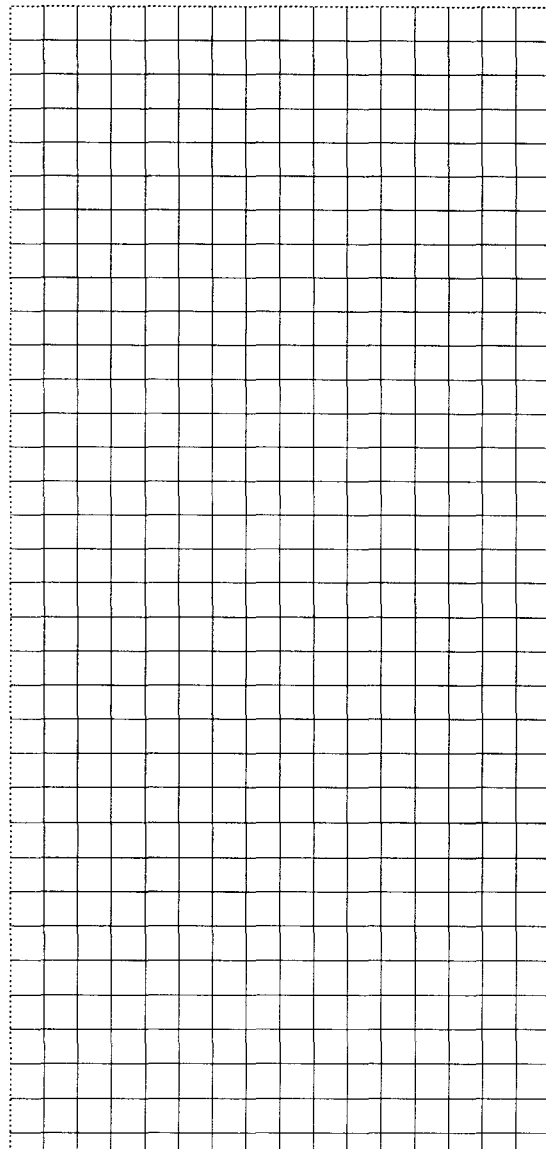


Figure 18
Remove sleeve check ball retainer pin.



Reassembly single modulator valve assembly

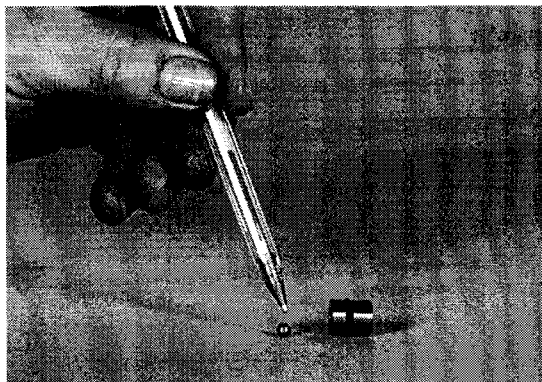


Figure 20

Install a new "O"-ring on regulator spool sleeve.
Position check ball in sleeve.
Refer to the cleaning and inspection pages.

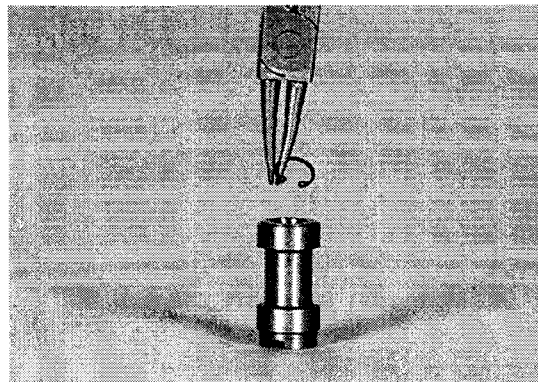


Figure 23

Install sleeve retainer ring.

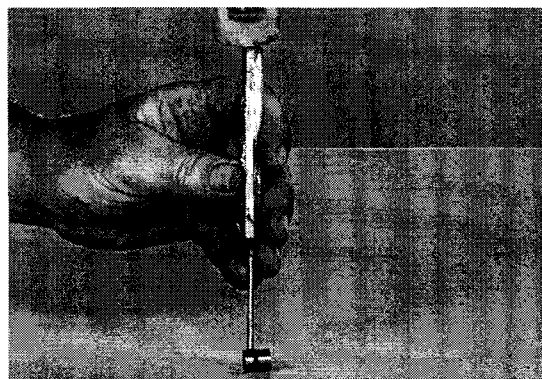


Figure 21

Install check ball retainer pin.

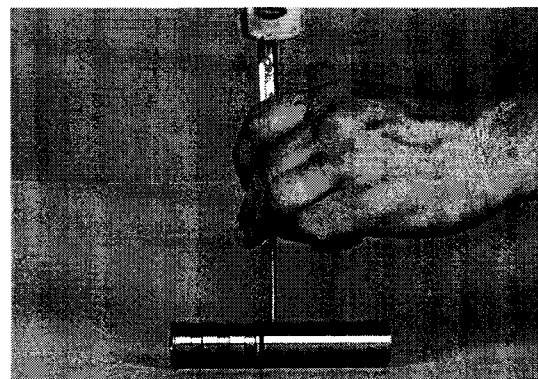


Figure 24

Install housing sleeve pin.

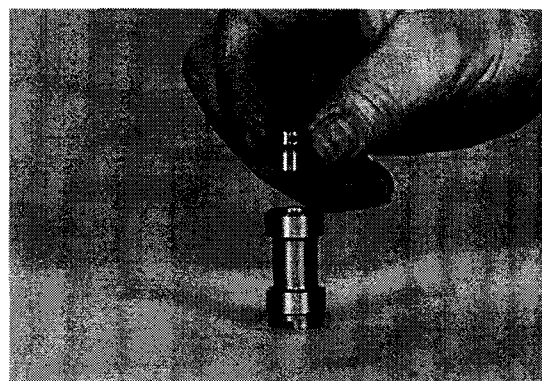


Figure 22

Position sleeve and ball assembly in regulator spool
with check ball retainer pin up.

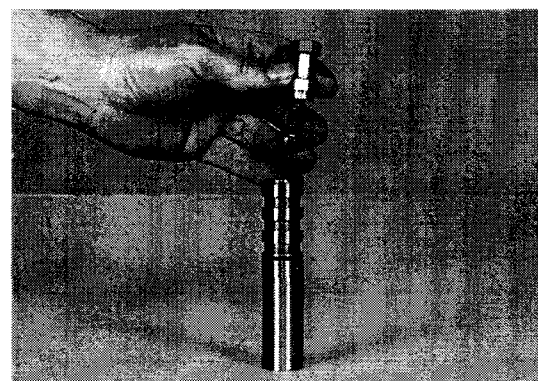


Figure 25

Install regulator spool stop, spring and regulator
spool and sleeve assembly in housing sleeve.

Reassembly single modulator valve assembly

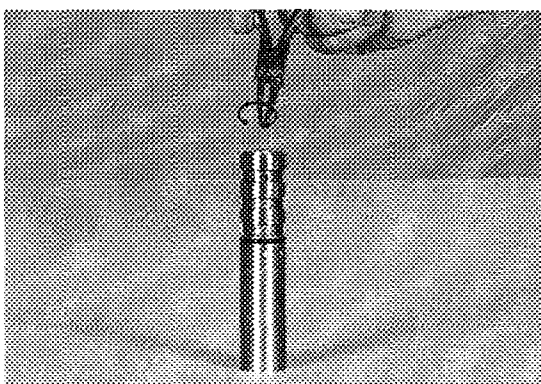


Figure 26

Compress regulator spool spring and install retainer ring.

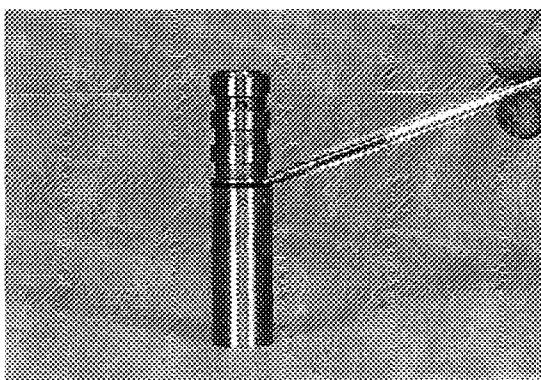
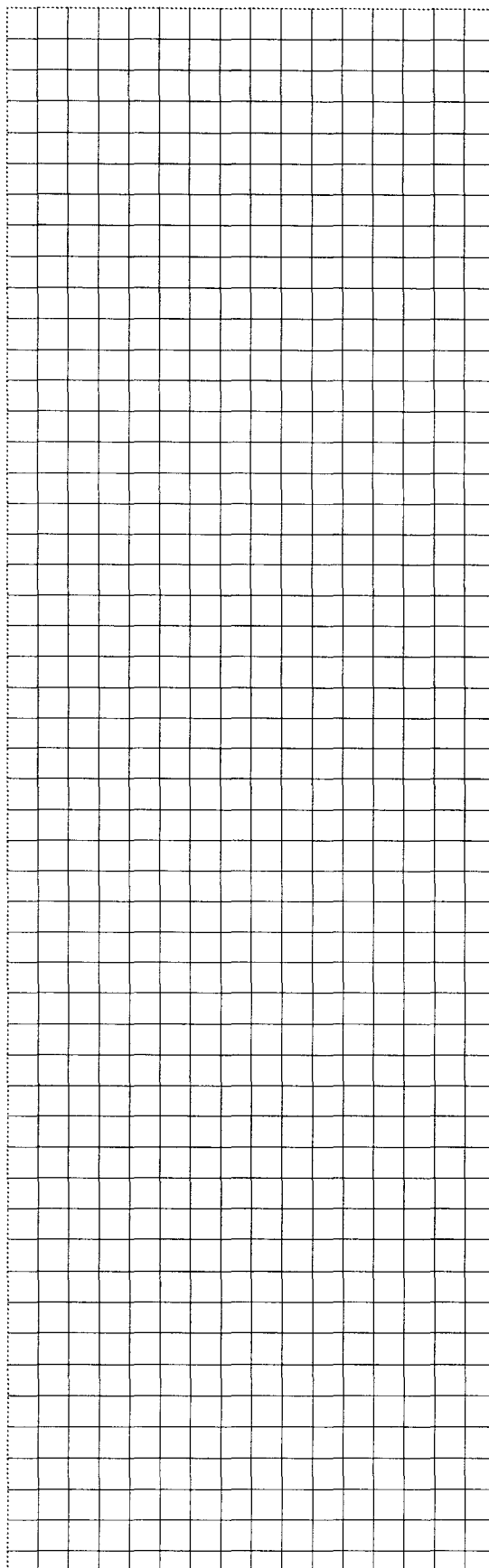
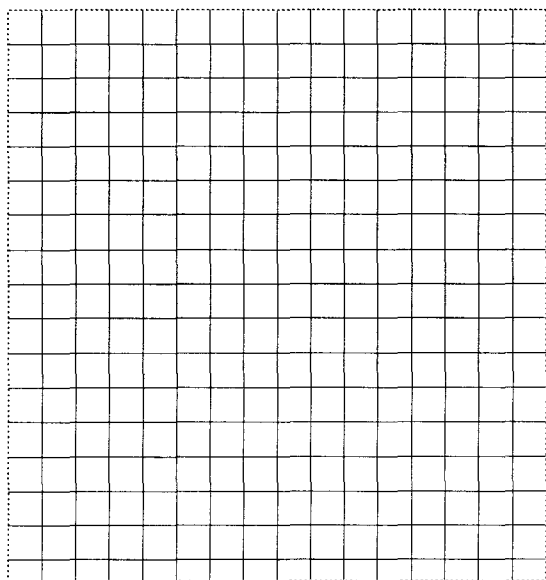


Figure 27

Position new "O"-ring on modulation sleeve.



Disassembly hydraulic inching actuator

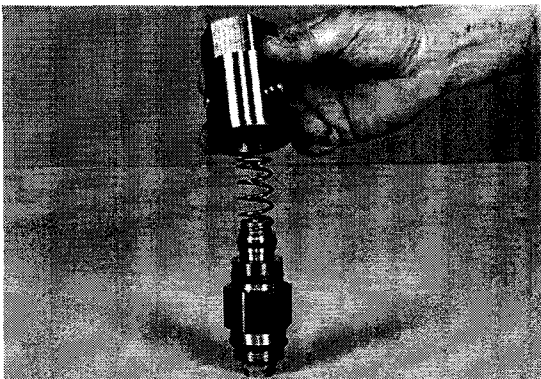


Figure 28
Remove hydraulic inching cover.

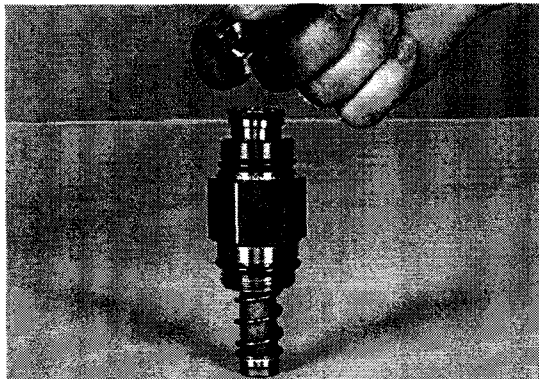


Figure 31
Inching upper piston removed.

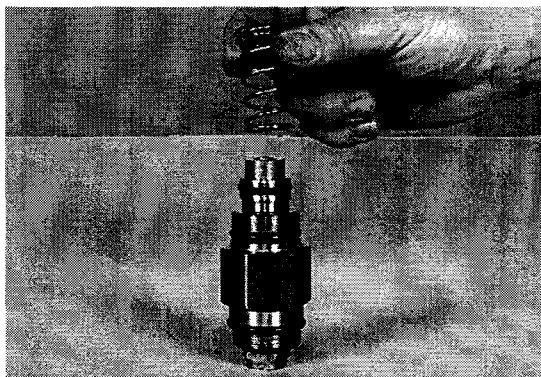


Figure 29
Remove inching return spring.

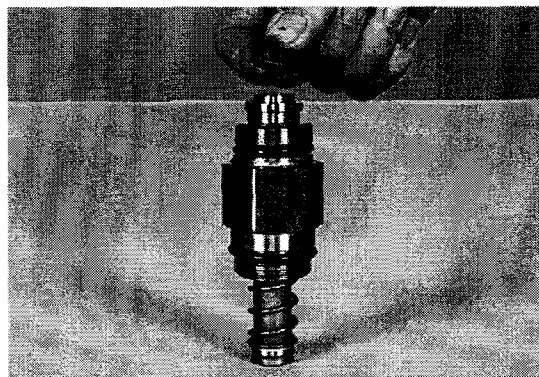


Figure 32
Remove hydraulic piston seal.

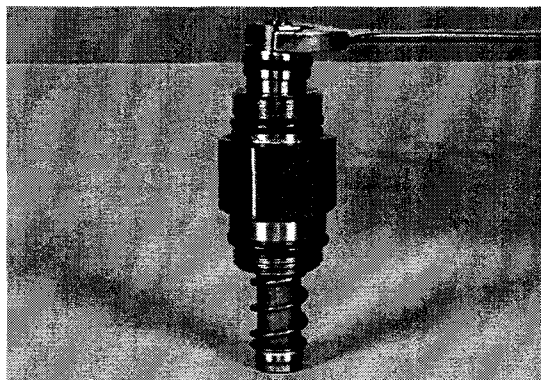


Figure 30
Remove hydraulic inching upper piston.



Figure 33
Remove inching lower piston and "O"-ring.

Disassembly hydraulic inching actuator

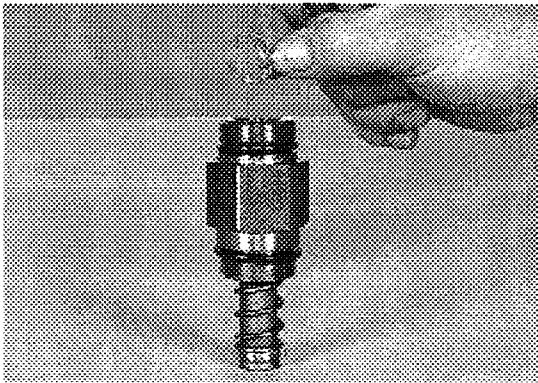


Figure 34
Remove snap ring.

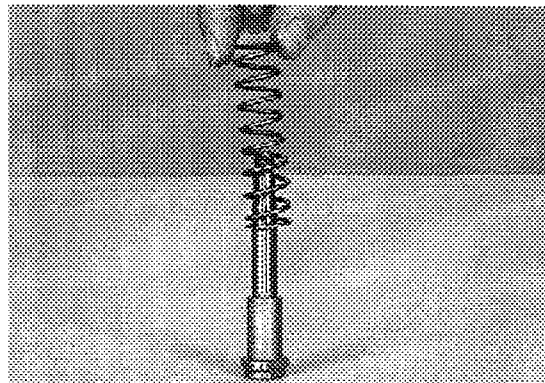


Figure 37
Remove inching return spring.

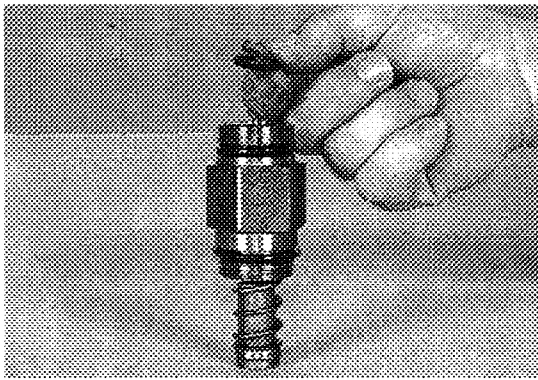


Figure 35
Remove hydraulic inching body seal.

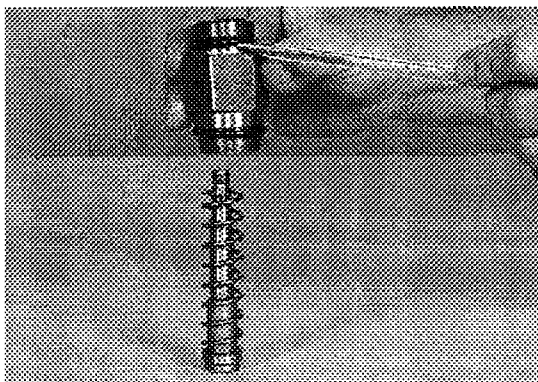
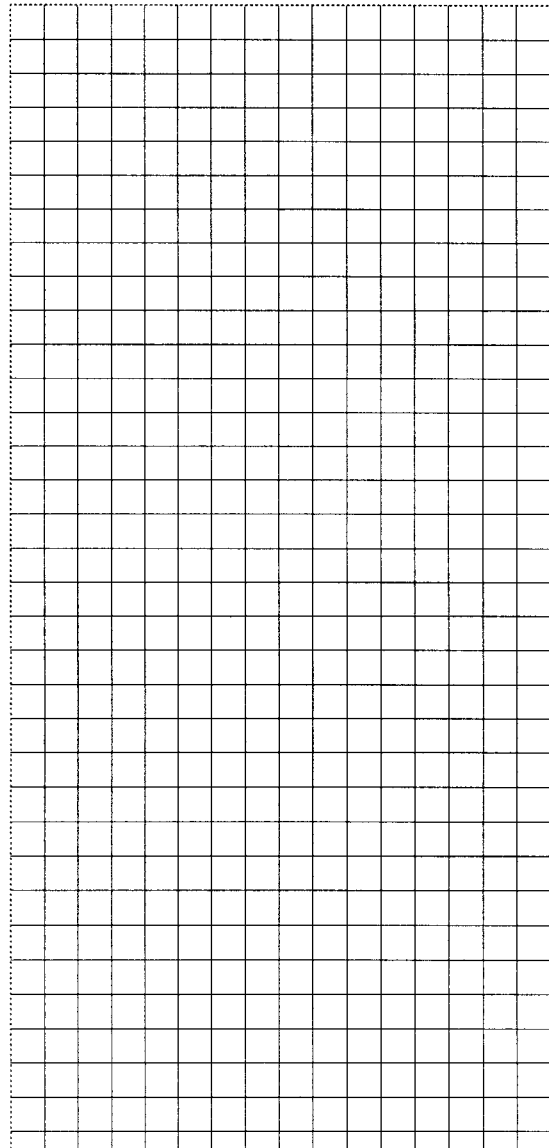


Figure 36
Remove hydraulic inching body and "O"-rings.



Reassembly hydraulic inching actuator

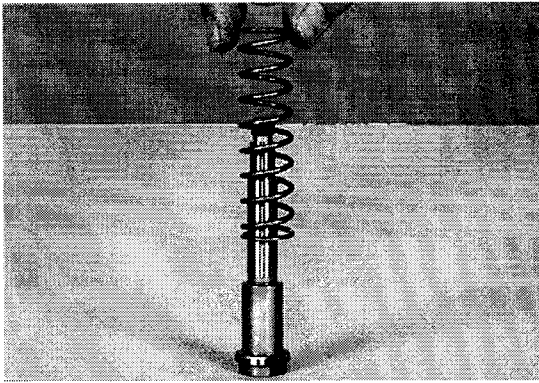


Figure 38

Install inching return spring.
Refer to the cleaning and inspection pages.

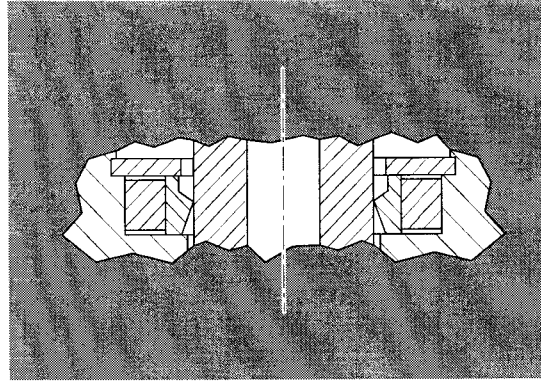


Figure 41

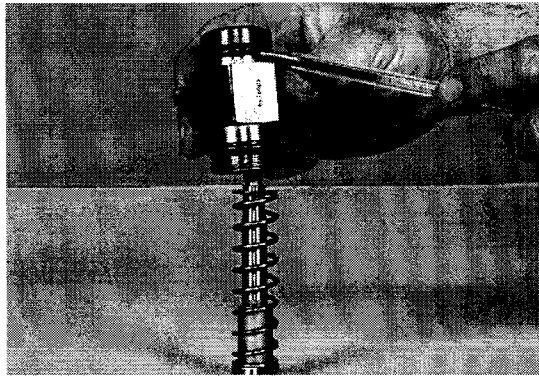


Figure 39

Install hydraulic inching body and "O"-rings.

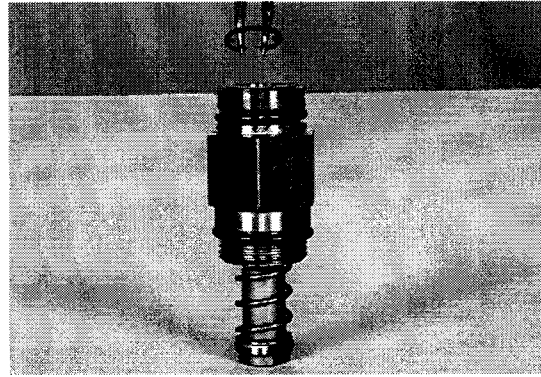


Figure 42

Install snap ring.

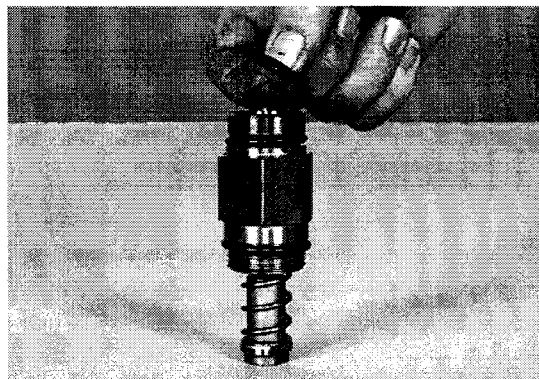


Figure 40

Install inching body seal. Be sure seal is mounted correctly. See figure 41.

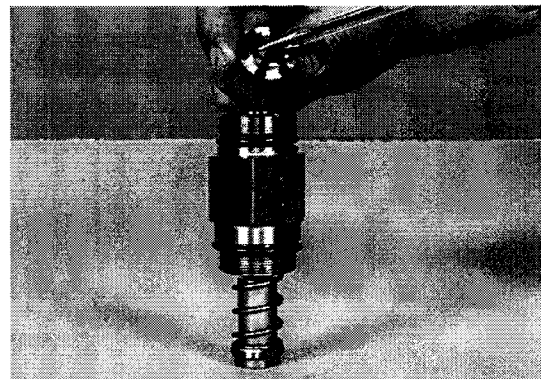


Figure 43

Install inching lower piston and "O"-ring.



Reassembly hydraulic inching actuator

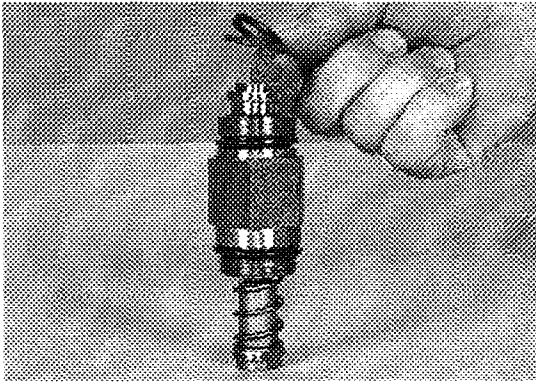


Figure 44
Install hydraulic piston seal.

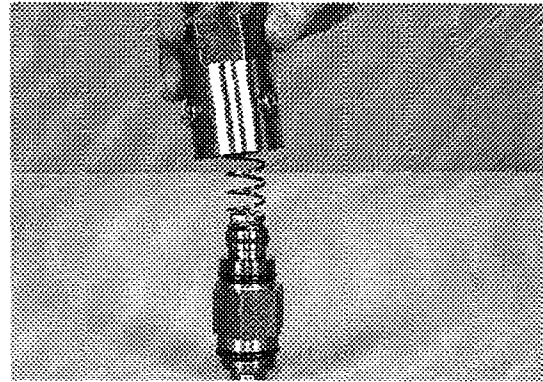


Figure 47
Install inching cover.

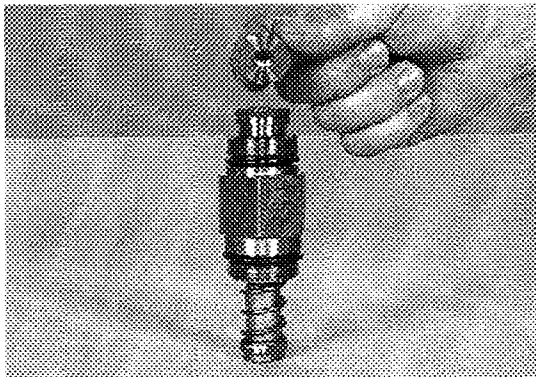


Figure 45
Apply Loctite nr. 243 to thread of inching actuator rod, install inching upper piston.

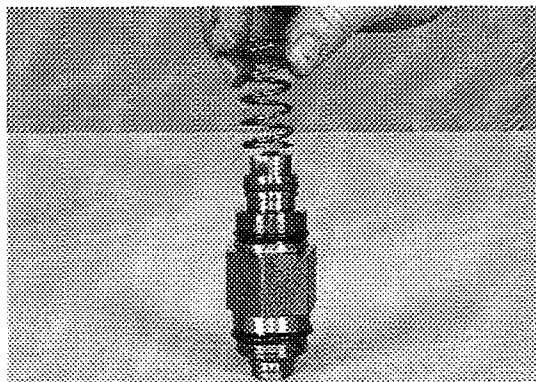
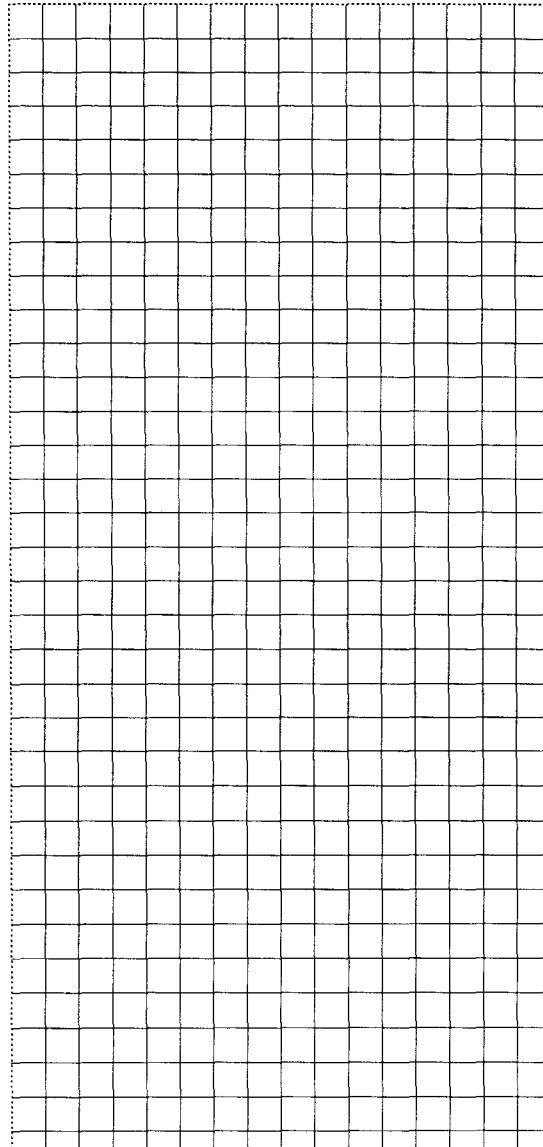


Figure 46
Install inching return spring.



Single modulation and hydraulic inching installation



Figure 48

Position shuttle spool in shuttle sleeve.
Install spool and sleeve in modulator valve bore.
Refer to the cleaning and inspection pages.

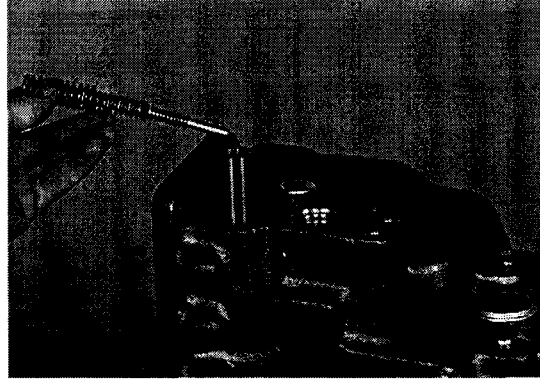


Figure 51

Install stop pin, inner, middle and outer springs in accumulator and housing sleeve.

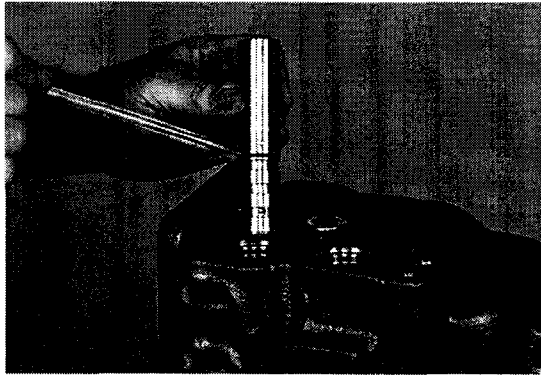


Figure 49

With new "O"-ring in position, install modulation housing sleeve assembly in bore.

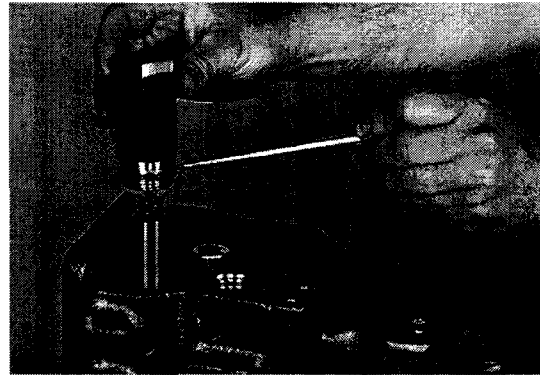


Figure 52

Position a new "O"-ring on modulator valve housing.
Thread housing into valve bore.



Figure 50

Install accumulator spool in housing sleeve as shown.

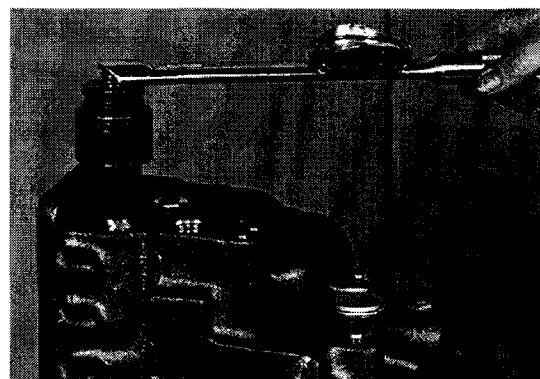


Figure 53

Tighten modulator valve housing to specified torque.
See assembly instruction drawing. Ref. to figure 380.

Single modulation and hydraulic inching installation

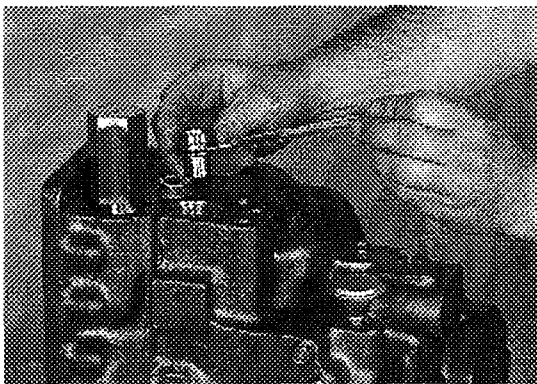


Figure 54

Install inching sleeve and "O"-ring.

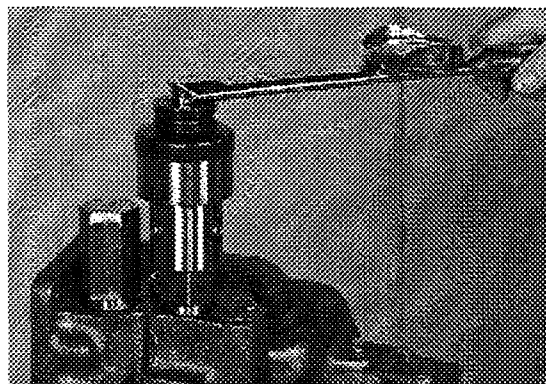


Figure 57

Tighten inching actuator to specified torque.
See assembly instruction drawing. Ref. to figure 380.

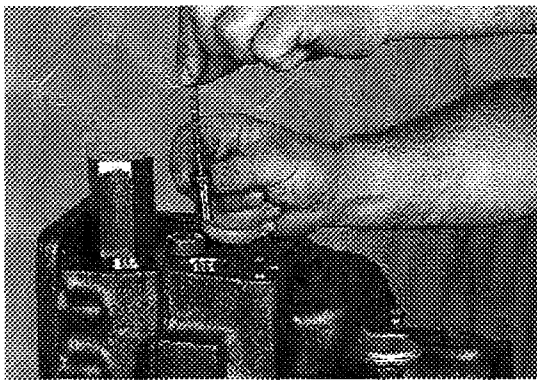


Figure 55

Install inching spool and regulator spring.

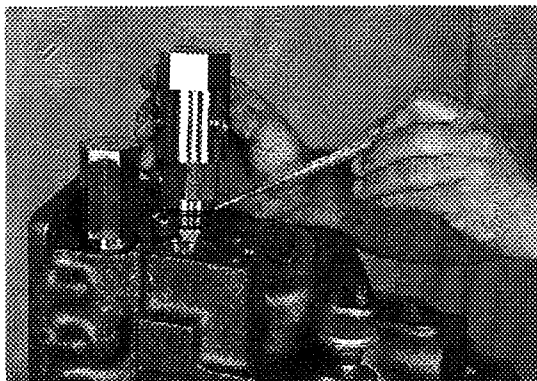
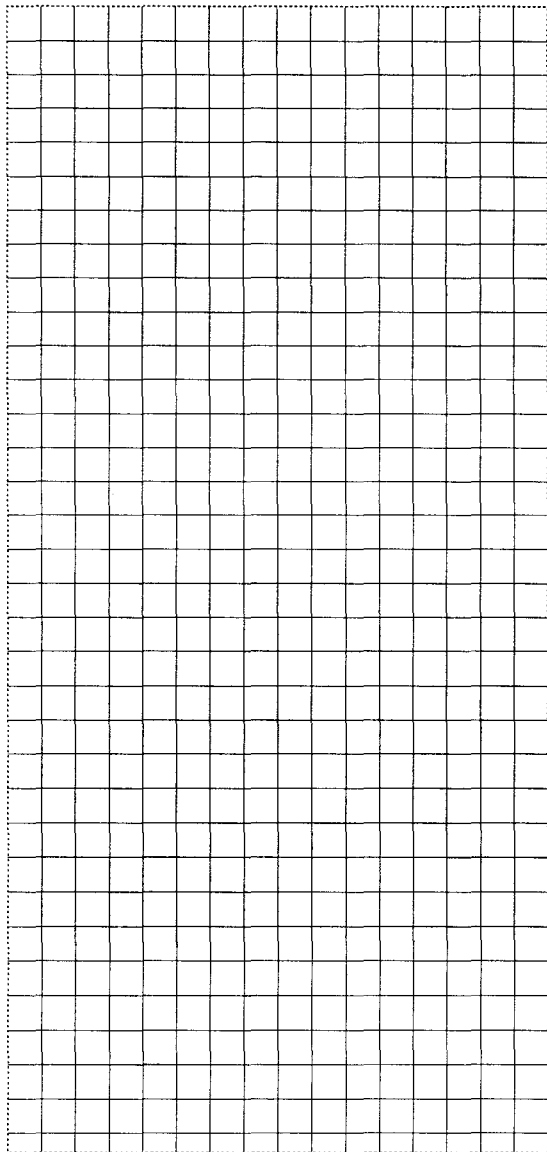


Figure 56

Install hydraulic inching actuator and "O"-ring.



Options

11.2 MT SECTION

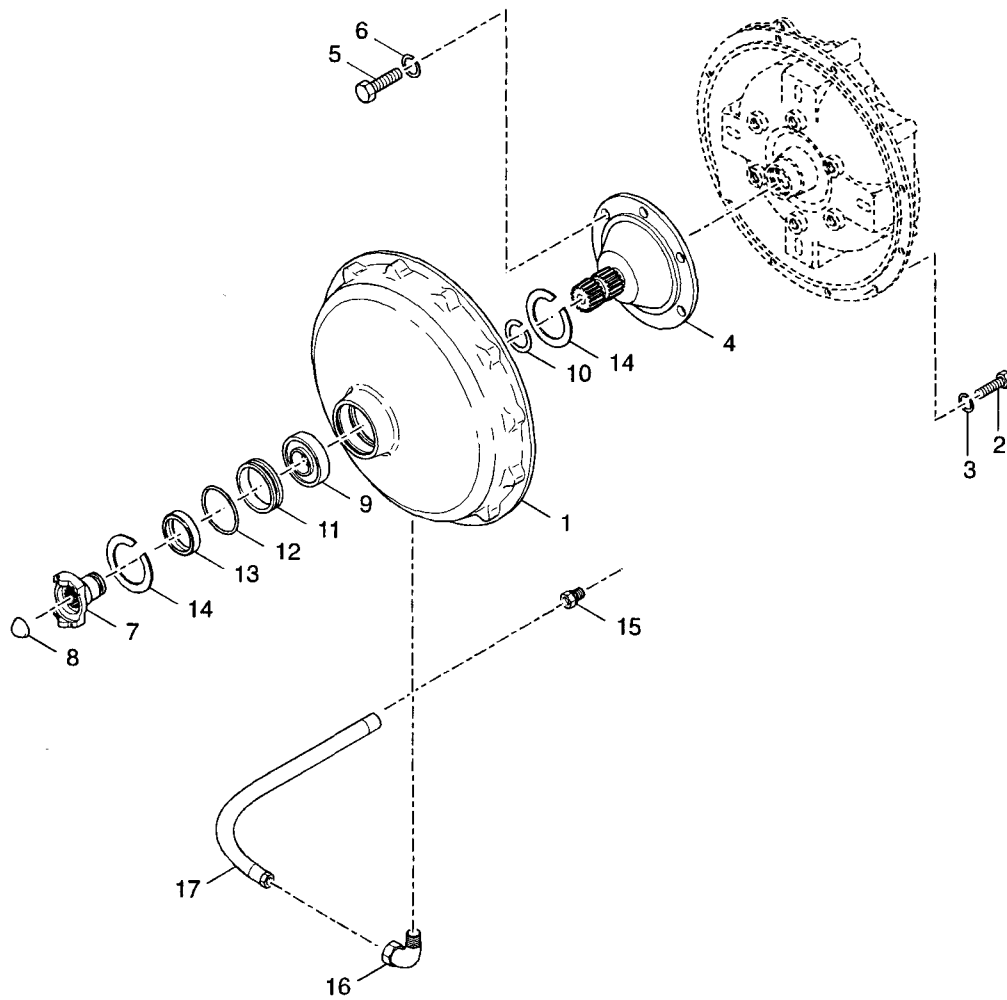
The information contained herein must be used in conjunction with a T12000 ID section. The MT model is the midship mounted T12000 series transmission with an integral convertor unit.

11.2.1 Sectional views and parts identification

11.2.2 Assembly instructions

11.2.1 Parts identification

GROUP - FRONT COVER & INPUT DRIVE



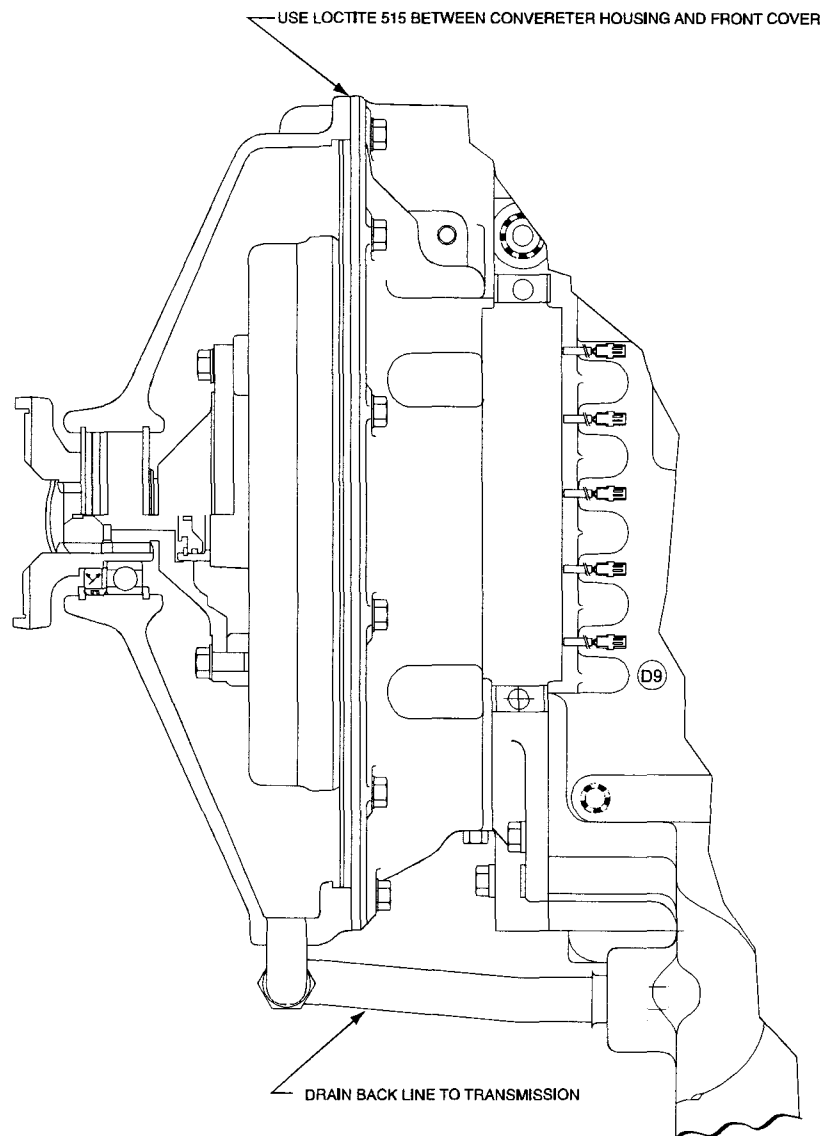
11.2.1 Parts identification

GROUP - FRONT COVER & INPUT DRIVE

Item	Description	Quantity
1	Cover - Front	1
2	Screw - Front cover to converter housing	12
3	Lockwasher - Front cover to converter housing	12
4	Shaft - Input Drive	1
5	Screw - Input drive shaft to torque converter	6
6	Lockwasher - Input drive shaft to torque converter	6
7	Flange - Input	1
8	Plug - Flange	1
9	Bearing - Input shaft	1
10	Snap ring - Flang retainer	1
11	Sleeve - Oil seal	1
12	"O"-ring - Oil seal sleeve	1
13	Seal - Input shaft oil	1
14	Snap ring - Input Shaft Bearing	2
15	Fitting	1
16	Fitting	1
17	Tube - Drain	1

Options

11.2.2 MT cross section and assembly instructions





Brugge, Belgium

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