TRANSMISSION SERVICING - A/T

1992 Infiniti G20

1991-92 TRANSMISSION SERVICING
Automatic Transmission

G20

IDENTIFICATION

INFINITI AUTOMATIC TRANSMISSION APPLICATIONS

Model	Transmission Model
G20	(1) Rl4F03A, (2) Rl4F03V

(1) - Model code number 31X71
(2) - Model code number 31X72

LUBRICATION

SERVICE INTERVALS

Fluid should be checked at every engine oil change. Change at 60,000 miles or 48 months. Under severe conditions, change transmission fluid every 30,000 miles or 24 months.

CHECKING FLUID LEVEL

1) With vehicle parked on level ground and parking brake set, start engine and move gear selector through each gear range, ending in "P". Check fluid with engine idling. Add fluid if low. DO NOT overfill.
2) Check for fluid contamination. If fluid is very dark, smells burned or contains frictional material (clutches, brake bands, etc.), change fluid and check transmission operation.

NOTE: Check fluid at HOT range on dipstick when fluid is 122-176°F (50-80°C). Use COLD range when fluid is 86-122°F (30-50°C) and recheck fluid level when hot.

RECOMMENDED FLUID

Use Dexron ATF.

FLUID CAPACITIES

TRANSMISSION REFILL CAPACITIES

Application	With Converter Qts. (L)	W/O Converter Qts. (L)
G20	7.4 (7.0)	6.2 (6.0)

DRAINING & REFILLING

Raise and support vehicle. On G20, drain fluid by removing

drain plug. Remove oil screen. Clean oil pan, magnet and oil screen in clean solvent and dry. On G20 tighten drain plug to 21-29 Ft. Lbs. (29-39 N.m). Add fluid and check level.

NOTE: Most adjustments and transmission operations are computer controlled.

REVERSE CLUTCH BRAKE BAND ADJUSTMENTS

NOTE: Reverse clutch brake band is normally adjusted only during transmission overhaul.

Tighten anchor end bolt to 35-53 INCH lbs. (4-6 N.m) and back off 2 1/2 turns. See Fig. 1. Hold anchor end pin and tighten lock nut.

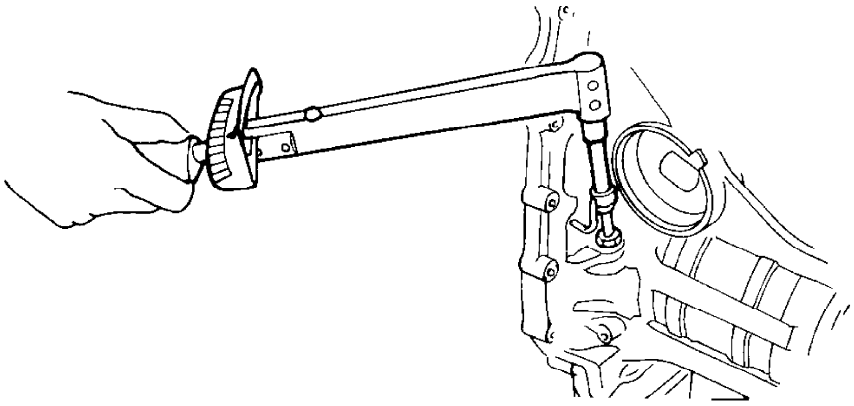

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Fig. 1: Adjusting Reverse Clutch Brake Band (G20)
Courtesy of Nissan Motor Co., U.S.A.

THROTTLE (KICKDOWN) CABLE ADJUSTMENTS

1) Turn ignition off. Move adjusting tube in direction "T" while depressing lock plate. See Fig. 2. Release lock plate, locking tube in position.

2) Open throttle drum quickly from "P1" (idle) to "P2" (wide open throttle). Adjusting tube will move in direction "U". Measure stroke of cable "L". Cable should move 1.5-1.7" (39-43 mm). If measurement is not to specification, repeat procedure.

3) If correct measurement cannot be obtained, ensure throttle and transmission lever are not binding. If throttle and transmission are okay, replace cable.

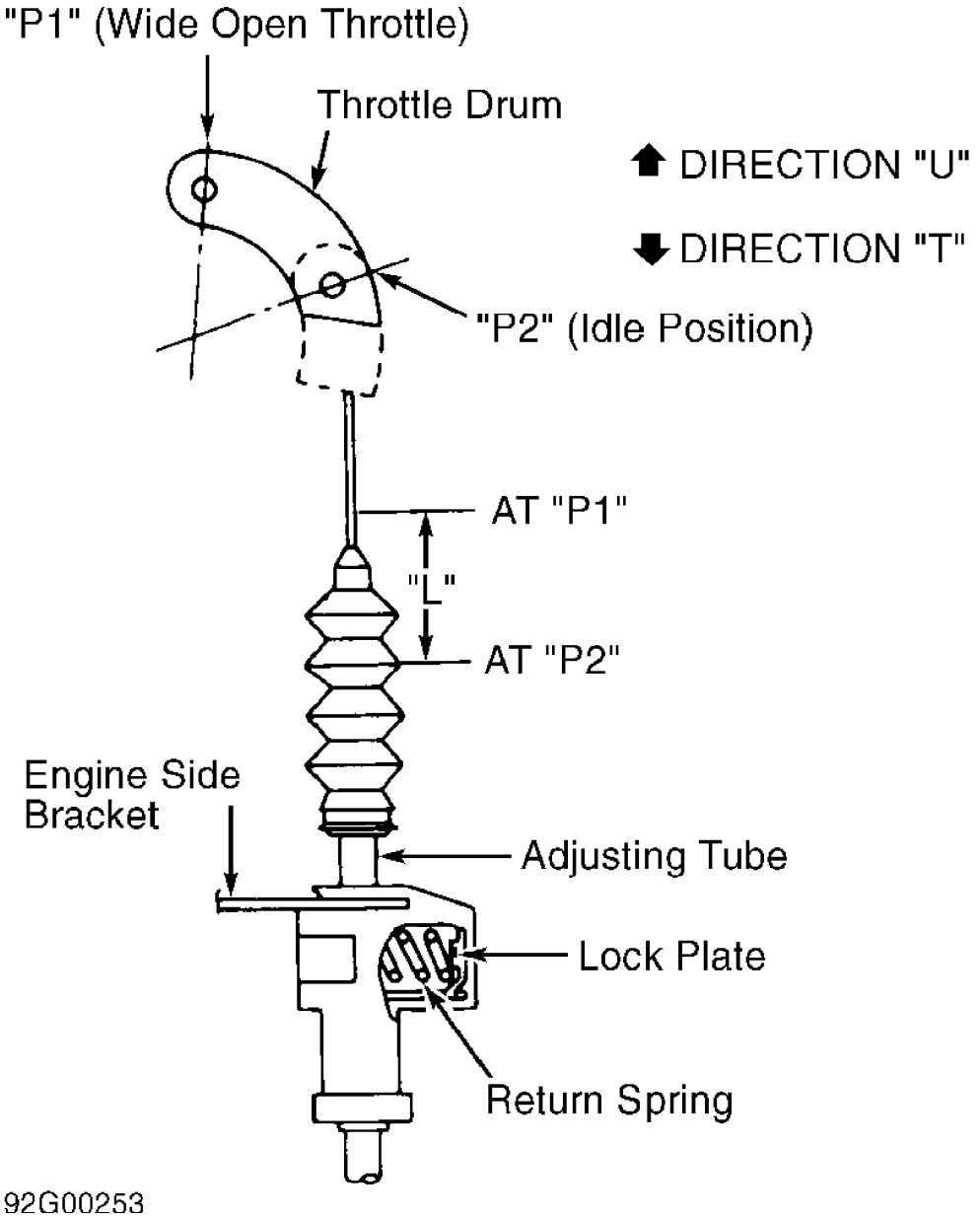

Fig. 2: Adjusting Throttle (Kickdown) Cable (G20)
Courtesy of Nissan Motor Co., U.S.A.

GEARSHIFT CABLE ADJUSTMENTS

1) Detents should be felt in each range as selector lever goes from "P" to "1". If detents cannot be felt or pointer is improperly aligned, adjust gearshift cable. Place selector lever in "P".

2) Loosen lock nut at manual shaft lever. See Fig. 3. Ensure manual shaft lever is fully in "P" position. Without allowing manual shaft lever to move, tighten lock nut to 13-18 Ft. Lbs. (18-24 N.m).

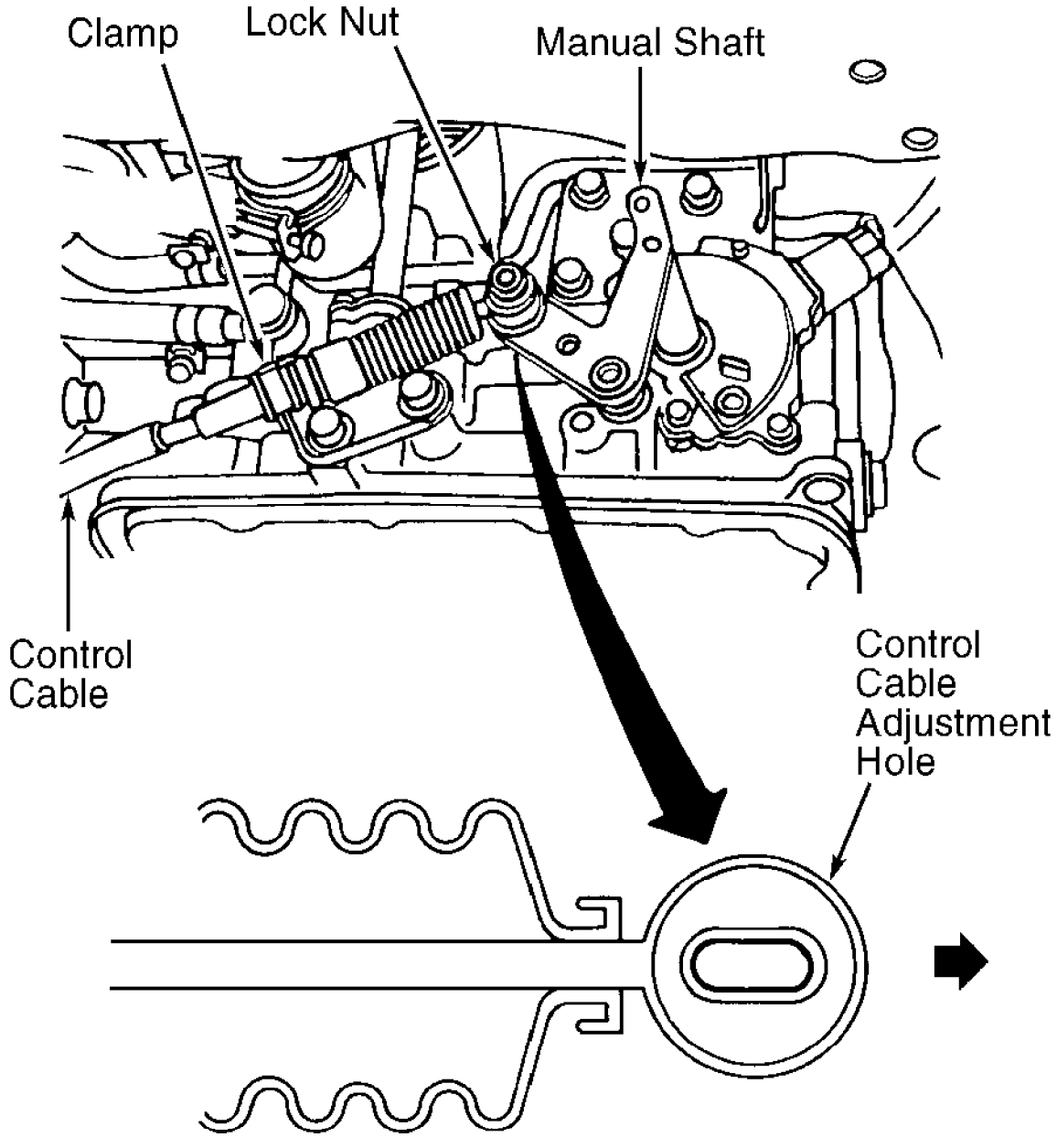

Fig. 3: Adjusting Gearshift Cable (G20)
Courtesy of Nissan Motor Co., U.S.A.

NEUTRAL SAFETY SWITCH ADJUSTMENTS

Remove control linkage from transmission manual shaft. Set manual shaft in "N" position. Loosen neutral safety switch screws. See Fig. 4. Insert 5/32" (4 mm) pin into adjustment holes in both neutral safety switch and manual shaft as vertically as possible and tighten screws. Ensure vehicle starts in only "P" and "N" positions.

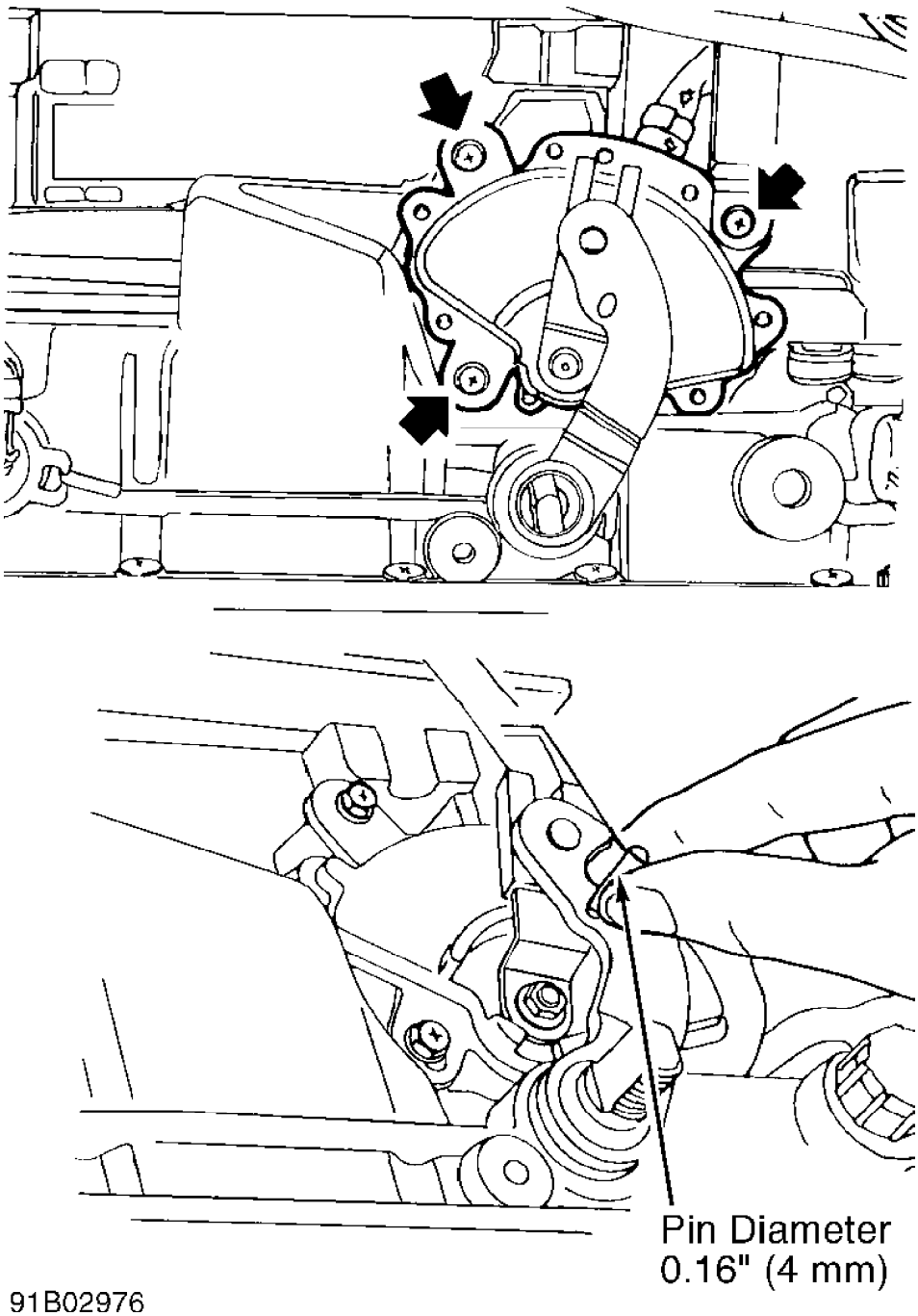

Fig. 4: Adjusting Neutral Safety Switch (Typical)
Courtesy of Nissan Motor Co., U.S.A.

REVOLUTION SENSOR R & I

Remove drive shaft from vehicle. Remove rear mounting member from body while supporting transmission with floor jack. See Fig. 5. Lower transmission as far as possible. Remove revolution sensor. To complete installation, reverse removal procedure.

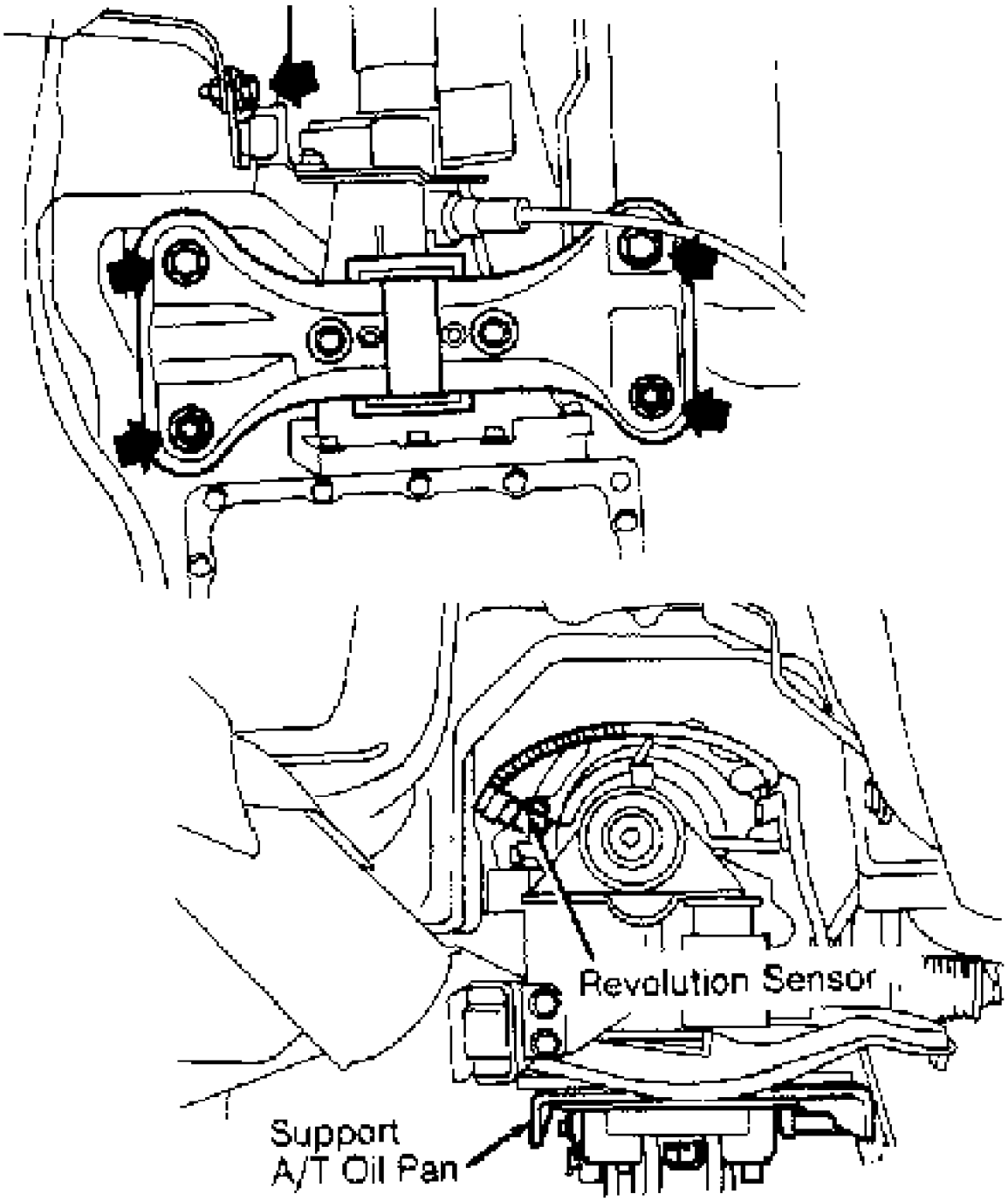

Fig. 5: Replacing Revolution Sensor
Courtesy of Nissan Motor Co., U.S.A.

REAR OIL SEAL R & I

Remove drive shaft from vehicle. Remove rear oil seal. See Fig. 6. To install, coat new seal with ATF and reverse removal procedure. To complete installation, reverse removal procedure.

NOTE: Apply ATF to seal before installing.

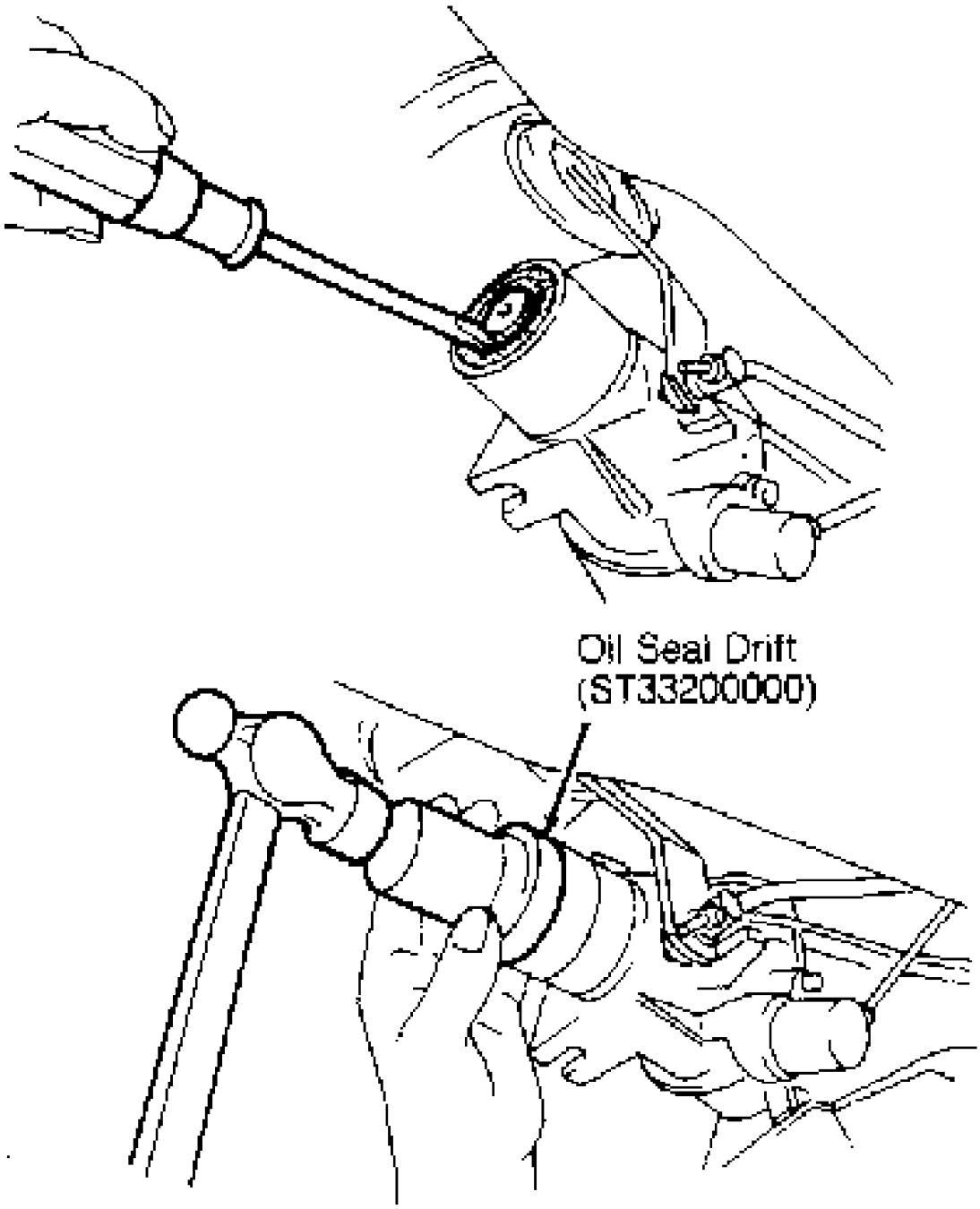

Fig. 6: Replacing Rear Oil Seal
Courtesy of Nissan Motor Co., U.S.A.

TORQUE SPECIFICATIONS

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Application	Ft. Lbs. (N.m)
Drain Plug	21-29 (29-39)
Gear Shift Cable Lock Nut	13-18 (18-24)
Gear Shift Linkage Lock Nut	8-11 (11-15)
	INCH Lbs. (N.m)
Kickdown Switch Adjuster Lock Nut	71-89 (8-10)
Oil Pan Bolts	44-62 (5-7)
Reverse Clutch Brake Band Adjuster Lock Nut	35-53 (4-6)