

Lift Points

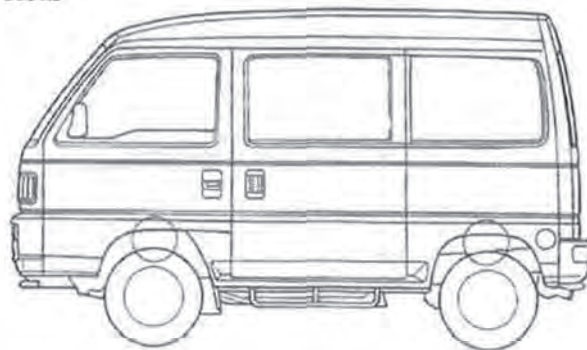
Truck



Front

Rear

Van

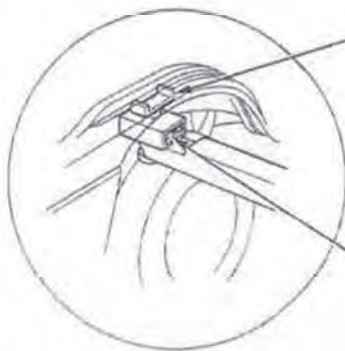


Front

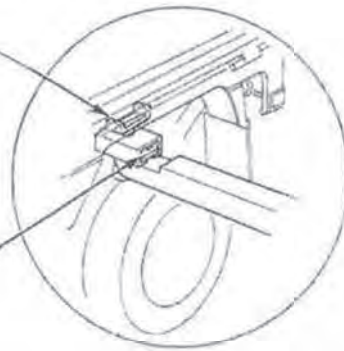
Rear

Front Wheelhouse

Rear Wheelhouse



Attachment



Lift Block

Fuel & Emission Control

Part Name	Item		Benchmark	
Fuel Pump	Discharge[cc/min]	Truck	400	
		Van, Street	MT	350
			AT	400
	Discharge Pressure[kg/cm ²]	Truck	0.06-0.10	
		Van, Street	MT	0.08-0.12
			AT	0.06-0.10
Fuel Tank	Content(ℓ)		37	
Fast Idle RPM	(RPM)		AC 1200RPM	
Idling(Non Load)	(RPM)		MT:1.000±50 1.150±50 (UL/UR)	AT:950±50 (D Range)
Idling Emission(Non Load)	CO Concentration (%)		Below 3.0	
	HC Concentration[ppm]		Below 900ppm	

Clutch

Part Name	Item	Benchmark	Limit Value
Clutch Pedal	All Stroke	130-135	-
	Backlash	15-25	-
	Gap (Gap between Floor)	Not Under 79	-
Clutch Flywheel	Disk Surface Fluctuation	Under 0.05	0.15
Clutch Friction Disk	Surface Fluctuation	Under 0.6	1.00
	Galling (depth to rivet head)	Not Under 1.3	0.20
	Disk thickness	8.35-9.15	5.75
Clutch Cover Assembly	Pressure Disk Face Flatness	Under 0.03	0.15
	Diaphragm Spring	Under 0.8	1.00
Release Bearing	Internal Diameter	29.030-29.150	29.250
	Gap Between Guide Shaft	0.080-0.233	0.300

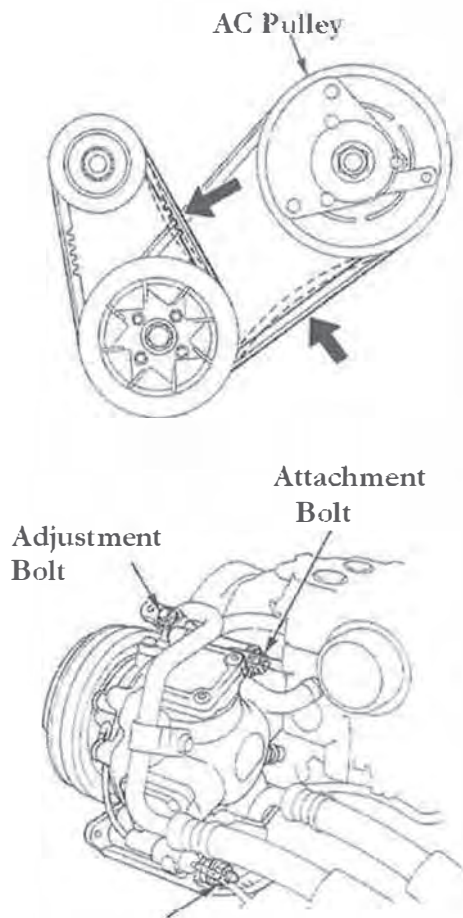
Manual Transmission 4WD (UL/UR Version)

Part Name	Item		Benchmark	Limit
	Directional Shaft		0.10-0.15	Shim to Adjust
UL/UR Main Shaft	Ball Bearing Ext Diameter	A(Clutch Case Side)	21.940-21.960	21.903
		C(Transmission Case Side)	23.190-23.200	23.150
	Needle Bearing Ext Diameter	B(3Speed Gear)	24.987-25.000	24.930
		D(Main Idle Gear Side)	22.990-23.000	22.937
		E(UL/UR Case Side)	19.973-19.987	19.884
	Bend Limit		Under 0.02	0.05
UL/UR Counter Shaft	Directional Shaft		0.10-0.67	Shim to Adjust
	Needle Bearing Ext Diameter	A(Transmission Case Side)	34.992-35.008	34.938
		B(UL Gear External Diameter)	25.987-26.000	25.937
	C(Ball Bearing)External Diameter		19.977-19.990	19.943
UL/UR Idle Shaft	Needle Bearing Ext Diameter	A(Transmission Case Side)	12.708-12.719	12.756
		B(UL/UR Case Side)	16.989-17.000	16.937
UL Counter Gear	Internal Diameter		31.009-31.025	31.075
	Gear Height		27.95-28.00	-
UR Counter Gear	Internal Diameter		31.009-31.025	31.075
	Gear Height		26.5	-
UL/UR Idle Gear	Needle Bearing Ext Diameter	A(Transmission Case Side)	17.726-17.737	17.774
		B(UL/UR Case Side)	22.007-22.020	21.957
	Width		65.95-66.00	65.83
Shift Folk	Nail Thickness		UL-UR 6.4-6.5	-
	Internal Diameter		UL-UR 12.000-12.068	-
	Gap Between Shift Folk Shaft		UL-UR 0.040-0.768	-
UL/UR Piece Plate	Shift Arm B Sliding Groove Width		0.2-0.5	-
Distance Color	Needle Bearing External Diameter		25.987-26.000	25.937
	Internal Diameter		20.003-20.070	20.100
	Width A	A	22.000-22.050	-

General Maintenance

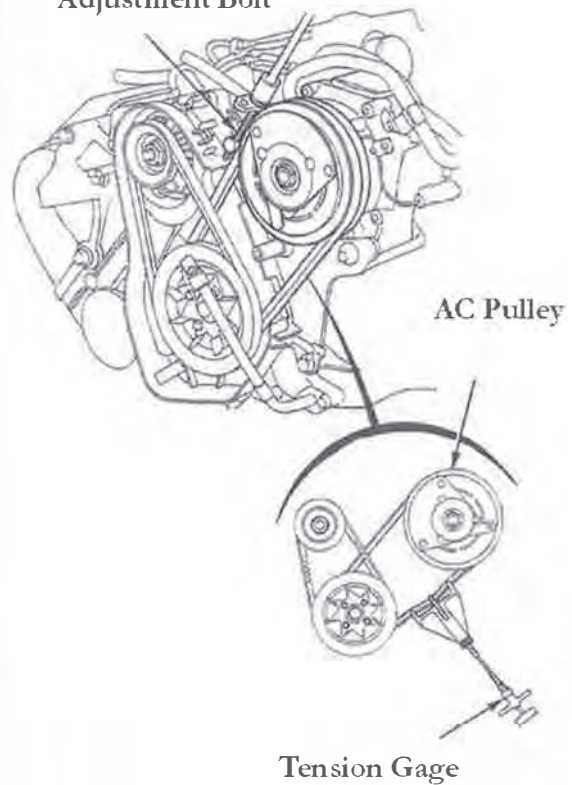
(AC Compressor Belt)

Belt Diagram



Attachment Bolt

Adjustment Bolt



Tension Gage

Tension Gage

New Belt Reading: 35~60kgf
In Place Belt Reading: 22~40kgf

Replace AC Belt: 68,000K

Note: Check AC Fluid When Replacing Belt

Engine Cooling System

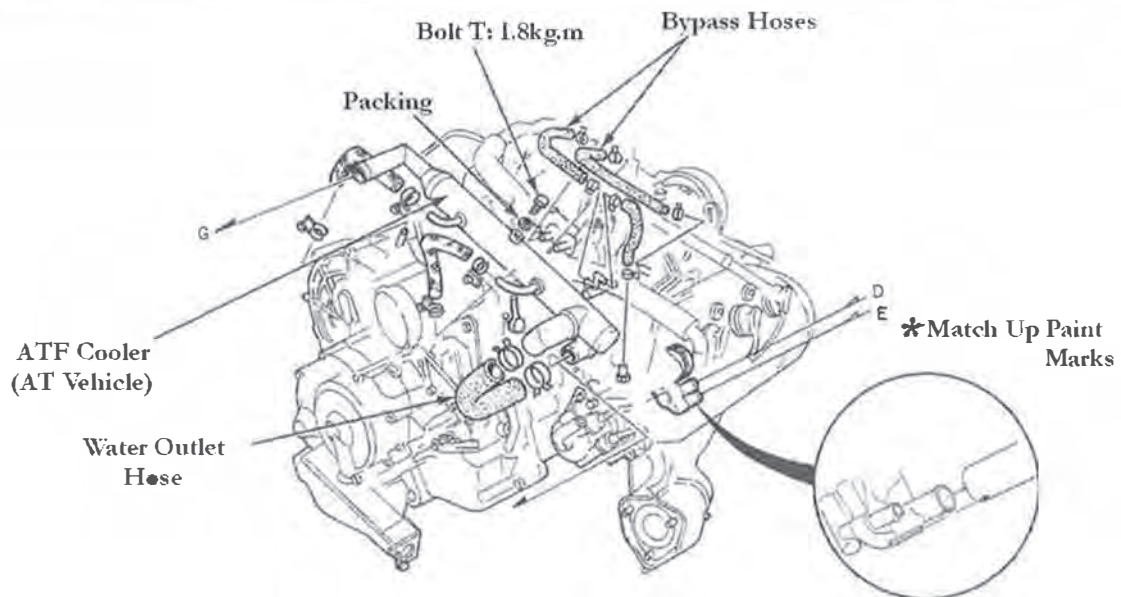
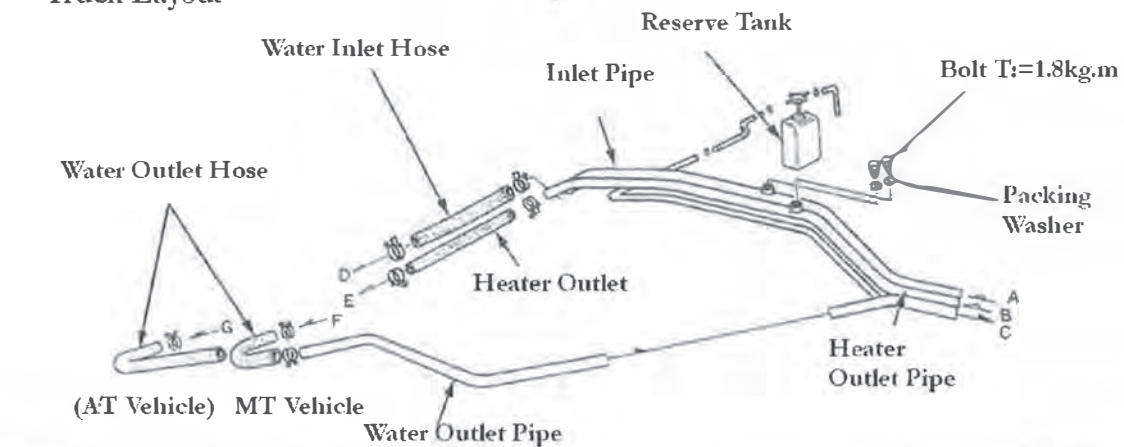
Coolant Diagrams

(Truck)

Capacities

Truck:	MT	6.5 Liters
	AT	7.1 Liters
Van	MT	6.5 Liter
	MT+ Rear Heater	6.7 Liters
	AT + Rear Heater	7.4 Liters

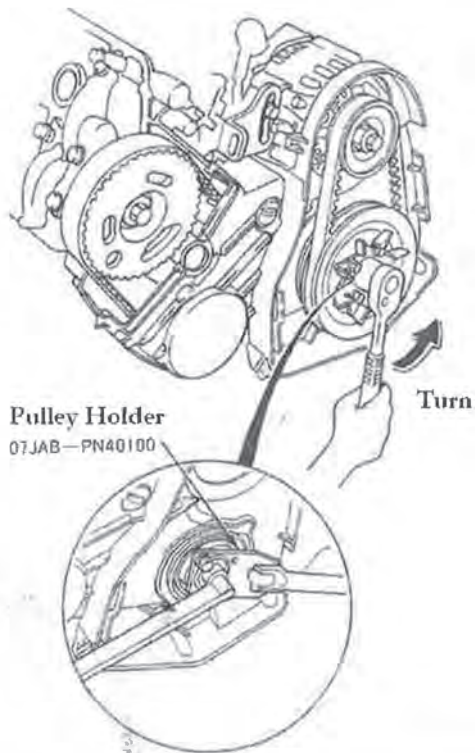
Truck Layout



Engine

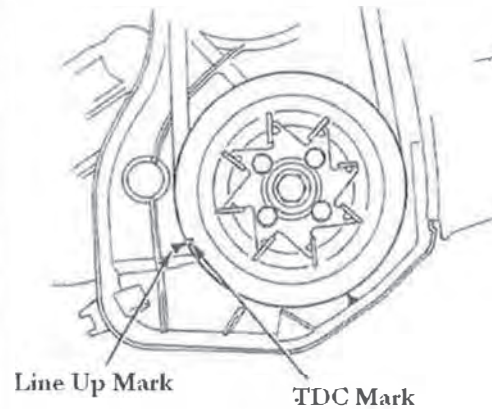
Timing Belt Positioning

Use Pulley Holder and Torque Wrench to Set Torque.
T:=9.5kg.m

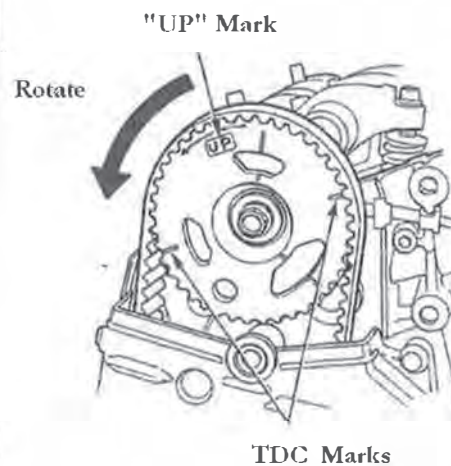


Note: Rotate Only In Direction Shown

Line Up Crankshaft Pulley and Mark



Line Up Top Pulley and Marks



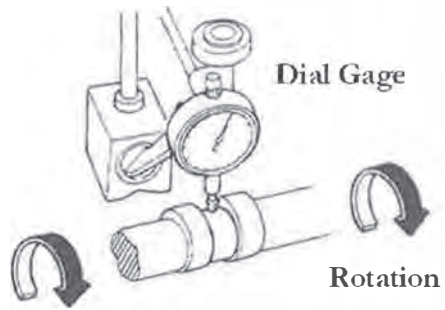
Note: UP Mark is #1 Cylinder, All Marks Should Line Up like Diagram

Assemble and Check Valve Clearance

Engine

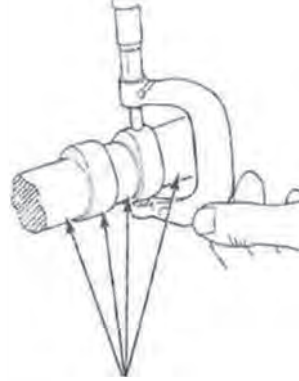
Cylinder Head and Valve Train

Camshaft Round-Out



Range: 0.015mm
Fail: 0.030mm

Camshaft Lobe Measurement



Note: Uneven Wear, Pitting is Found
Replace Camshaft

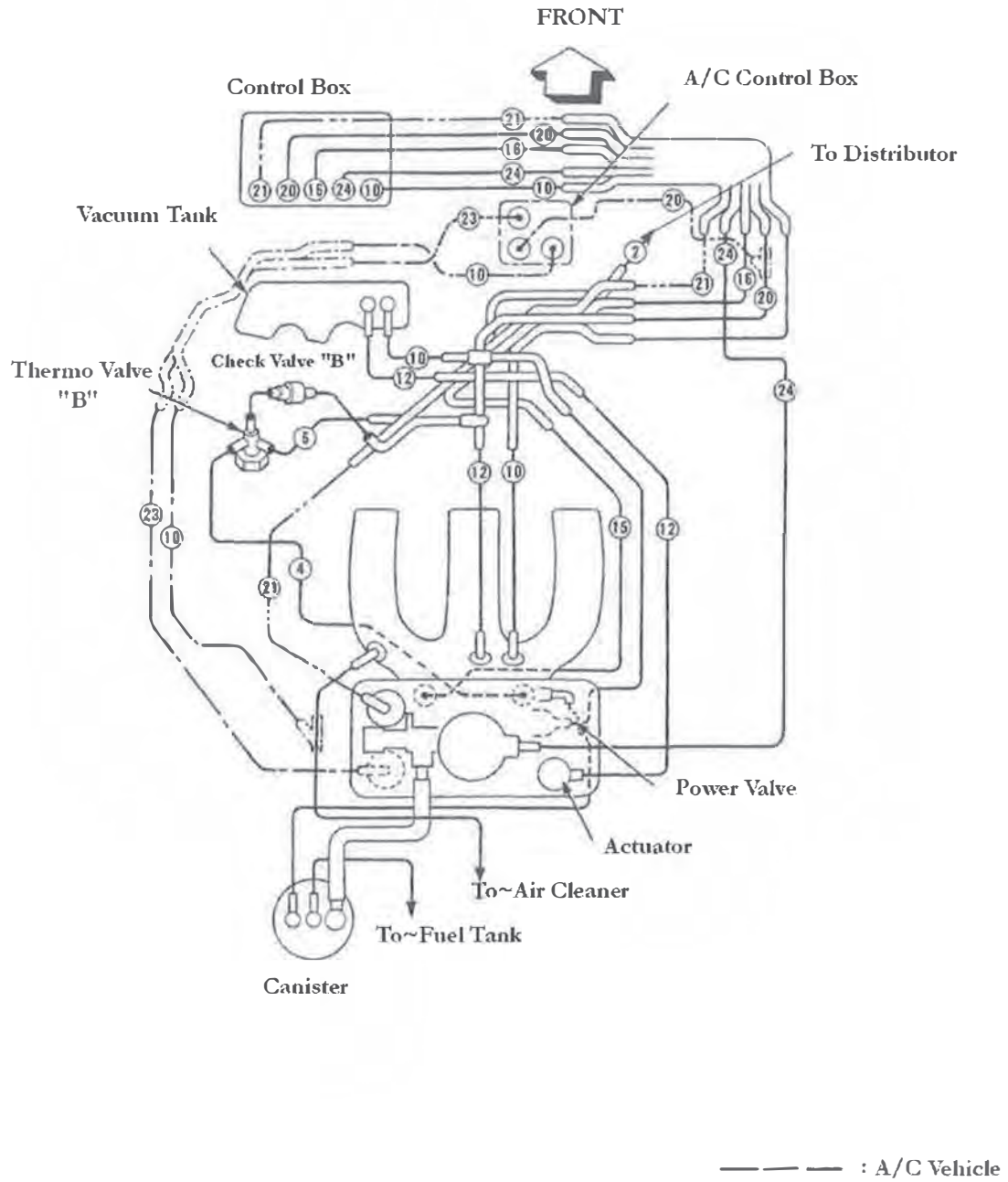
Range: Intake Lobe 35.122mm
Exhaust Lobe 33.944mm

Note: Camshaft Can Not Be Reground

Fuel System & Emission Control

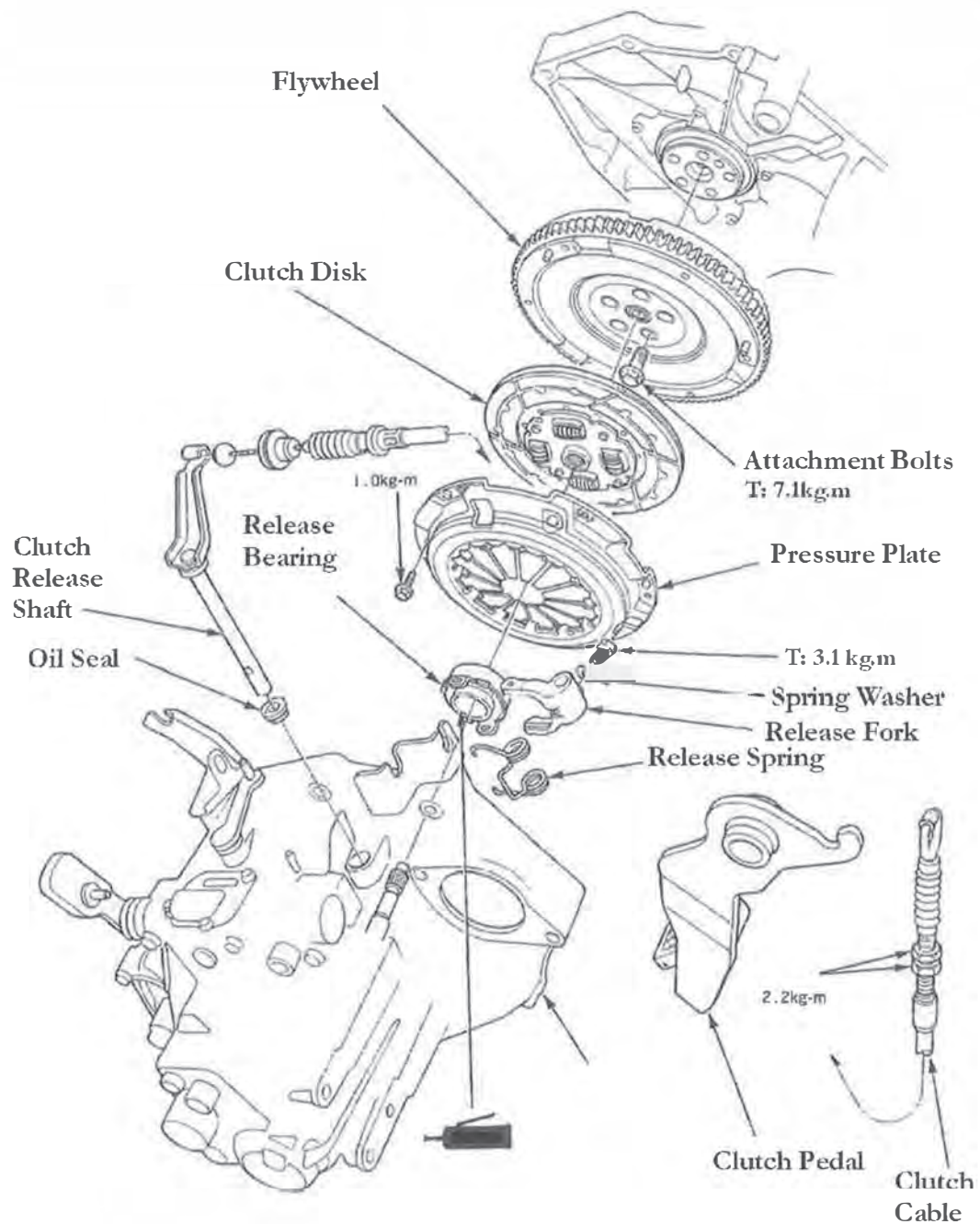
Vacuum Routing (AT)

AT Vehicle



Clutch

Complete Diagram



Driveshaft & Axel Assembly

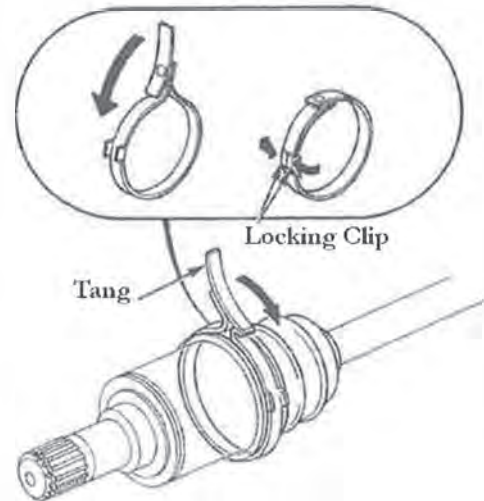
Grease Amount: 50~70 Grams

8. Add Grease To Boot as in Diagram Below



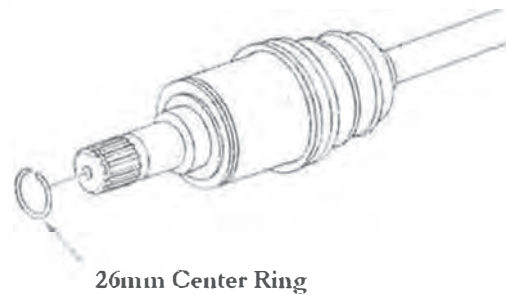
Right: 438-443mm
Left: 550-555mm
(UL/UR 477-482mm)

9. Attach Locking Bands as in Diagram Below



10. Attach Center Ring

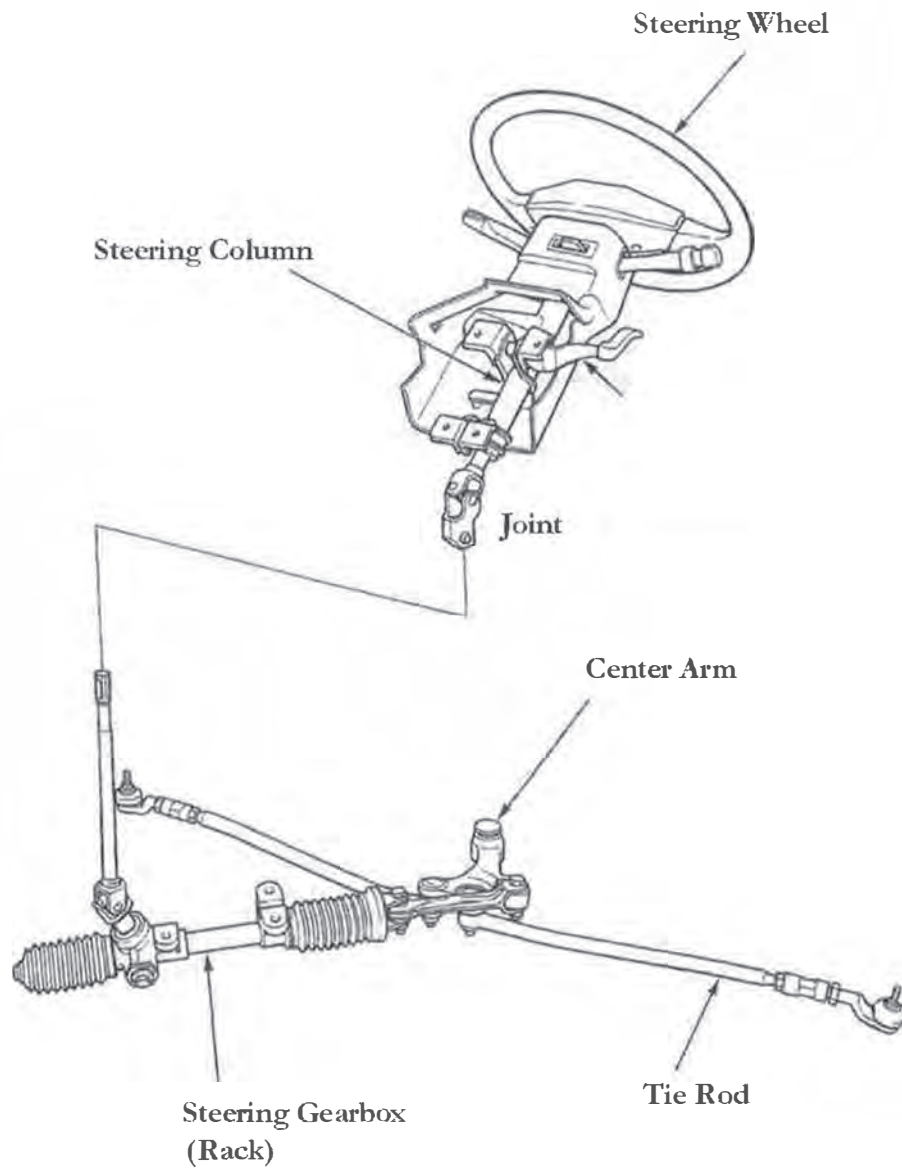
Note: Unit to be Stored Place in Plastic Cover



UL/UR Vehicles 24mm

Steering & Suspension

Components



Steering & Suspension

Wheel Alignment

Camber Specifications:

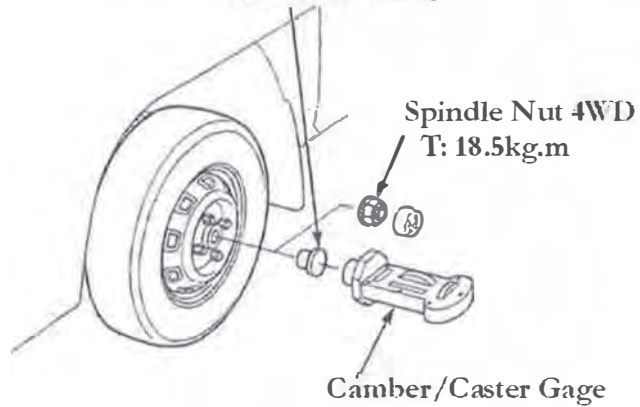
Vehicle

M-HA3 1*00'+-1*

M-HH3 1*20'+-1*

M-HA4, HH4 1*30'+-1*

4 WD : 07410-0010200
2 WD : 07HGK-0010100



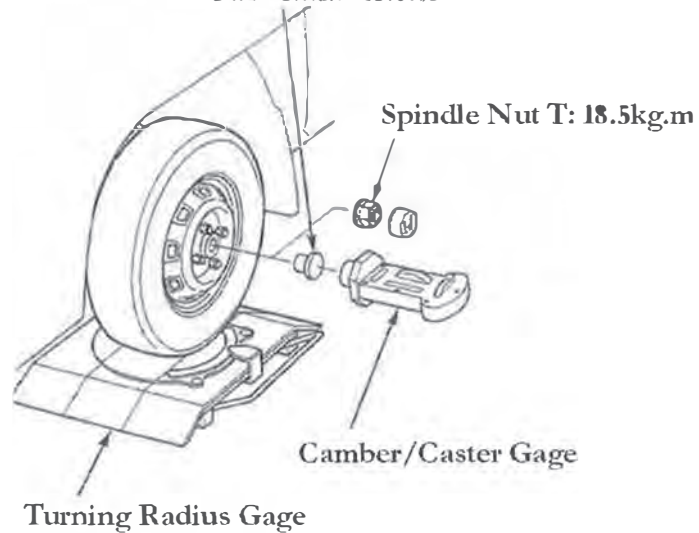
Caster Specifications:

Vehicle

M-HA3, HA4, HH4 2*30'+-1*

M-HH3 2*50'+-1*

4 WD : 07410-0010200
2 WD : 07HGK-0010100



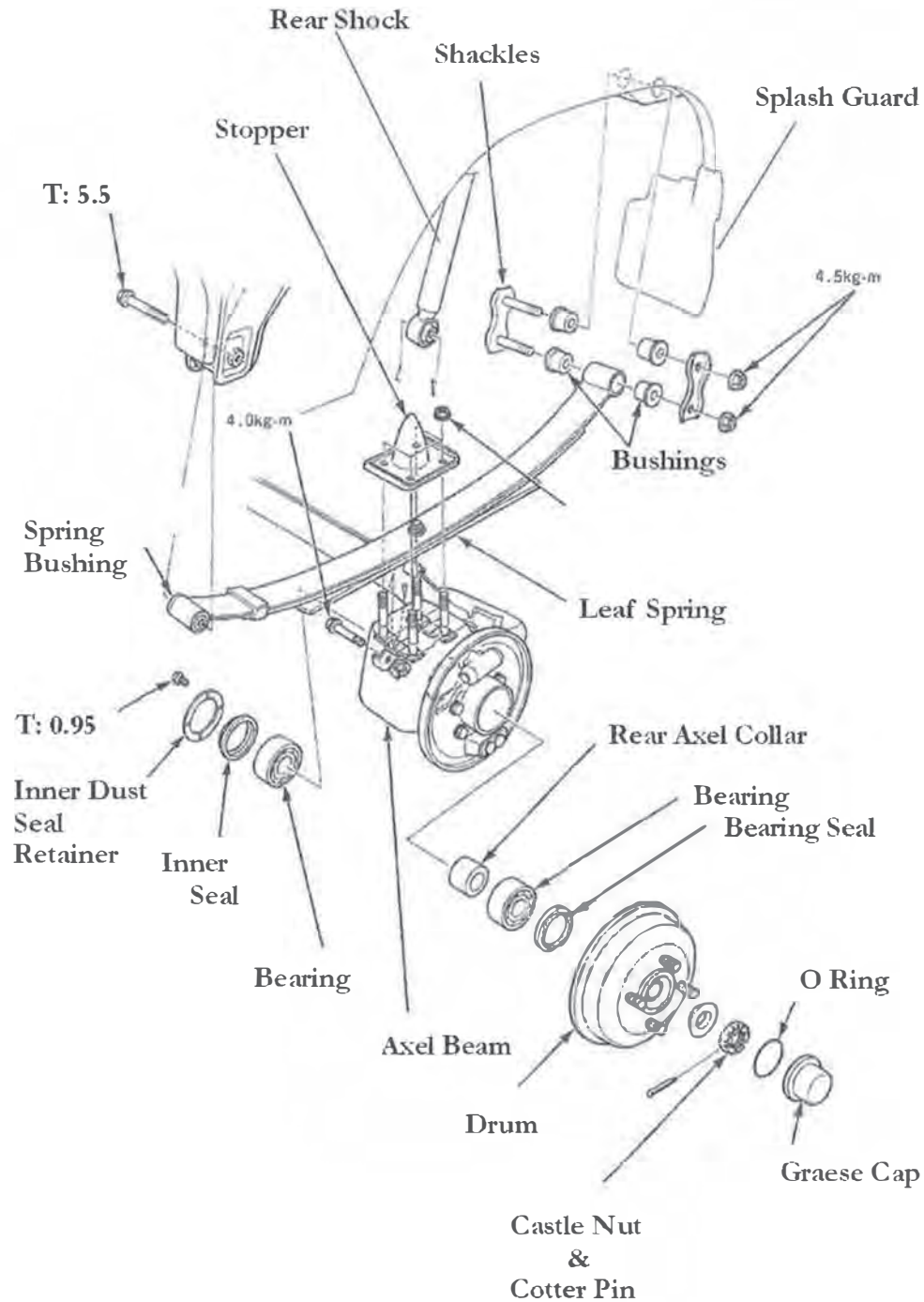
Note: Make Sure Tires Are Properly Inflated and Correct Size

Note: (* Mark) = Degrees

Steering & Suspension

Rear Suspension Components

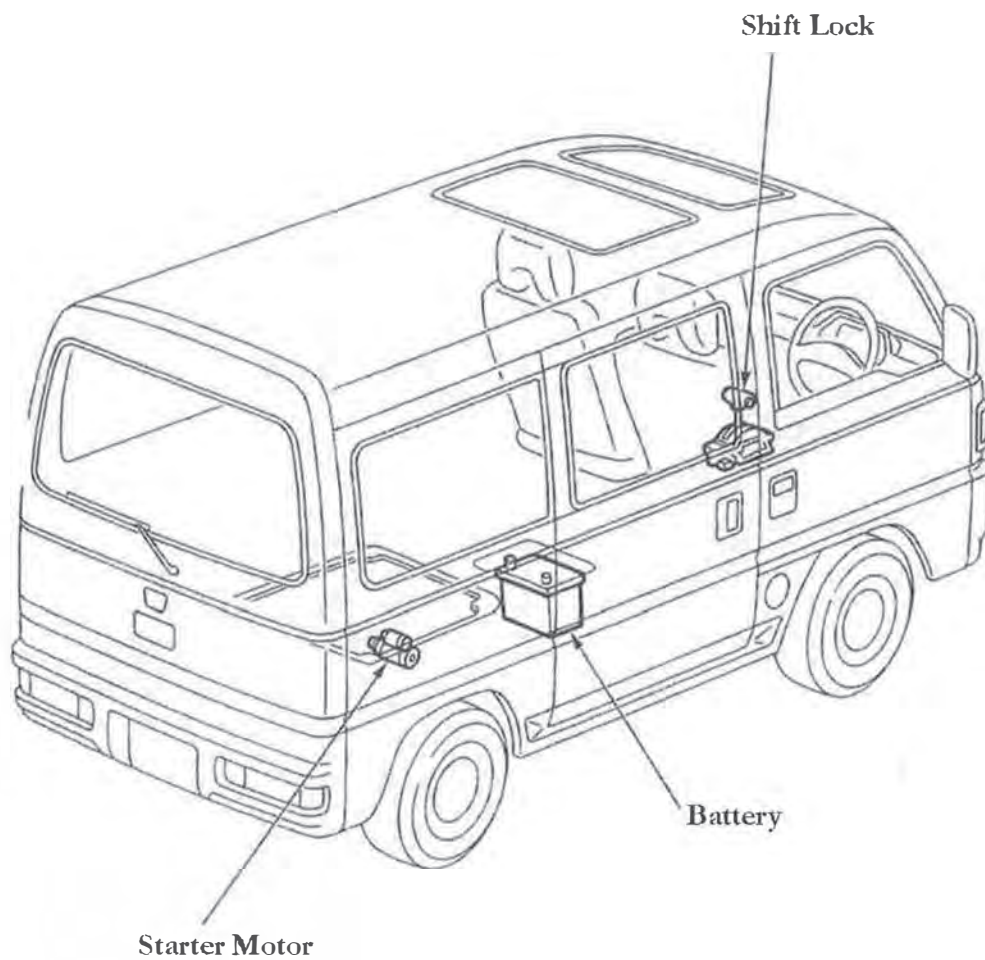
Torque=T: Kg.m



Starter & Alternator

Starter Location

AT Vehicle



Heater & AC

AC Schematic Diagram Van Type 2

Van Type 2

