



INDIAN MOTORCYCLE TIME/LABOR GUIDE

1999-2002 INDIAN MOTORCYCLE MODELS





1999-2002 TIME/LABOR GUIDE

TABLE OF CONTENTS

VIN Legend.....	2
Prefix Codes.....	2
Maintenance Schedule	3
Service.....	4
Drive.....	4
Wheels.....	4
Handlebars.....	5
Frame/Swingarm/Front Fork.....	5
Brakes	6
Seats/Fenders/Tanks	6
Belt Guard	7
Exhaust System	7
Engine.....	7
Cylinder Head.....	7
Cylinder and Piston	8
Cam Cover.....	9
Crankcase.....	9
Fuel System.....	10
Evaporative Emissions System	10
Drive/Clutch.....	10
Transmission	10
Electrical	11
Instruments	12
Ignition System	13

VIN LEGEND

FACTORY	FACTORY	FACTORY	FRAME STYLE	MODEL	MOTOR	HORSEPOWER	MAKE	CHECKSUM	YEAR	PLANT	SERIAL SEQUENCING					
5	C	D	C	N	B	5	1	1	X	G	0	0	0	0	1	4

FRAME STYLE

C = Stretched/Raked Smooth Ride

M = Single Down Tube Smooth Ride

MODEL

N = Chief

T = Scout

3 = Centennial Chief

5 = Spirit

C = Centennial Scout

MOTOR

B = 88"

C = 100"

HORSEPOWER

5 = 75 Net Braking H.P.

MAKE

1 = Indian

CHECKSUM

Variable

YEAR

X = 1999

Y = 2000

1 = 2001

2 = 2002

PLANT

G = Gilroy, California

PREFIX CODES

The model prefix codes used throughout this guide are comprised of the **Model** and **Year** digits of the VIN – the 5th and 10th digits seen greyed out in the VIN legend above.

CHIEF

NX = 99 Chief

NY = 00 Chief

N1 = 01 Chief

31 = 01 Centennial Chief

N2 = 02 Chief

SCOUT

T1 = 01 Scout

C1 = 01 Centennial Scout

T2 = 02 Scout

SPIRIT

51 = 01 Spirit

52 = 02 Spirit

MAINTENANCE SCHEDULE

Always refer to your Owner's Manual for a more complete maintenance procedure and schedule. Perform the Pre-ride Inspection in the Owner's Manual at each scheduled maintenance period.

I = Inspect and Clean, Adjust, Lubricate, or Replace if necessary

C = Clean

R = Replace

	M I L E A G E				
	500	2500	5000	7500	10000
1. Engine Oil (<i>replace yearly or prior to storage</i>)	R	R	R	R	R
2. Oil Filter	R	R	R	R	R
3. Tappet Oil Screen	I		I		I
4. Primary Chaincase Lubricant	R		R		R
5. Primary Belt/Chain	I	I	I	I	I
6. Rear Belt	I	I	I	I	I
7. Battery Fluid & Connections	I	I	I	I	I
8. Check Rear Brake Pedal Adjustment	I		I		I
9. Brake Pads & Discs For Wear	I	I	I	I	I
10. Brake Fluid Levels & Condition (<i>replace @ 15000 mi</i>)	I		I		I
11. Clutch / Throttle / Choke Cables & Levers	I		I		I
12. Clutch Adjustment	I		I		I
13. Foot Shift/Brake Pedal/Throttle Grip/Speedo Cable			I		I
14. Tire Pressure/Tread Condition	I	I	I	I	I
15. Engine Low & Fast Idle Speeds	I	I	I	I	I
16. Air Cleaner	I	I	I	I	I
17. Check Wheel Spoke Tightness	I	I	I	I	I
18. Steering Stem Bearings	I		I		I
19. Ignition Timing	I		I		I
20. Transmission Oil. & Drain Plug	R	I	R	I	R
21. Spark Plugs	I	I	I	I	R
22. Condition Of Rear Shocks	I	I	I	I	I
23. Wheel Bearings (yearly)					I
24. Rear Swingarm Bearings					I
25. Front Fork Oil					R

MODEL PREFIX & JOB TIME IN HOURS

JOB DESCRIPTION	NX, NY	N1, 31	T1, C1	S1	T2, 52	N2
SERVICE						
NEW						
Set-up and Pre-Delivery		Flat rate of \$120.00				
500 Mile Service	2.5	3.0	3.0	3.0	3.0	3.0
REGULAR						
2500 Mile Service	1.0	1.5	1.5	1.5	1.5	1.5
5000 Mile Service	2.5	3.0	3.0	3.0	3.0	3.0
7500 Mile Service	1.0	1.5	1.5	1.5	1.5	1.5
10,000 Mile Service	5.5	6.0	6.0	6.0	6.0	6.0
<i>Note: remaining service to be conducted at 2500 mile intervals to the extent of the warranty.</i>						
DRIVE						
Adjust drive belt	0.2	0.2	0.2	0.2	0.2	0.2
Replace drive belt	2.7	2.7	2.7	3.0	3.0	3.0
Replace primary belt	0.7					
Adjust primary chain		0.4	0.4	0.4	0.4	0.4
Replace primary chain		1.0	1.0	1.0	1.0	1.0
Replace rear drive sprockets						
Transmission Sprocket	2.5	3.0	2.5	3.0	3.0	3.0
Rear Wheel Sprocket	1.0	1.0	1.0	1.0	1.0	1.0
Engine Sprocket	1.0	1.5	1.0	1.5	1.5	1.5
WHEELS						
Replace front tire – Includes balancing	1.0	1.0	1.0	1.0	1.0	1.0
Replace rear tire – Includes balancing	1.5	1.5	1.2	1.2	1.2	1.5
Replace wheel assembly – Includes disc, sprocket exchange and balancing						
Front	0.8	0.8	0.8	0.8	0.8	0.8
Rear	1.0	1.0	1.0	1.0	1.0	1.0
Replace rim, hub or spokes						
Front	2.3	2.3	2.3	2.3	2.3	2.3
Rear	2.5	2.5	2.5	2.5	2.5	2.5
Replace and/or adjust front wheel bearing	0.8	0.8	0.8	0.8	0.8	0.8
Replace and/or adjust rear wheel bearing	0.9	0.9	0.9	0.9	0.9	0.9
True spoke wheel	0.5	0.5	0.5	0.5	0.5	0.5

JOB DESCRIPTION	NX, NY	N1, 31	T1, C1	51	T2, 52	N2
HANDLEBARS						
Replace handlebars/remove tanks	3.0	3.0	3.0	3.0	3.0	3.0
Replace clutch hand lever	0.3	0.3	0.3	0.3	0.3	0.3
Replace clutch hand lever bracket	0.3	0.3	0.3	0.3	0.3	0.3
Replace throttle control	0.6	0.6	0.6	0.6	0.6	0.6
Replace and adjust throttle control cables One or both	0.8	0.8	0.8	0.8	0.8	0.8
Replace both rubber handlebar mounts	1.2	1.2	0.5	0.8	0.5	1.2
Replace handlebar grip	0.1	0.1	0.1	0.1	0.1	0.1
Replace handlebar riser one or both	1.5	1.5	0.8	0.8	0.8	1.5
Replace handlebar top clamp	0.1	0.1	0.1	0.1	0.1	0.1
FRAME/SWING ARM/FRONT FORK						
Replace frame – Includes removal and installation of all accessories and motorcycle components	16.5	16.5	12.4	12.4	12.4	16.5
Replace front fork assembly	3.0	3.0	2.5	2.5	2.5	3.0
Replace lower triple clamps	3.3	3.3	2.8	2.8	2.8	3.3
Replace steering head cups and bearings, including bearing adjustment	3.7	3.7	3.4	3.4	3.4	3.7
Replace upper triple clamp	1.7	1.7	1.3	1.3	1.3	1.7
Adjust steering head bearing	0.5	0.5	0.5	0.5	0.5	0.5
Change front fork oil	0.9	0.9	0.9	0.9	0.9	0.9
Service fork slider and/or seal – Including removal disassembly, cleaning, inspection, replacing parts, servicing damper tube, replacing bushings, assembly and installation						
One side	2.0	2.0	1.5	1.5	1.5	2.0
Both sides	2.5	2.5	2.0	2.0	2.0	2.5
Replace lower slider						
One side	1.4	1.4	1.0	1.0	1.0	1.4
Both sides	1.8	1.8	1.2	1.2	1.2	1.8
Replace fork tube – Includes removal, disassembly, cleaning, inspection, replacing parts, servicing damper tube, replacing bushings, assembly and installation						
One side	1.4	1.4	1.0	1.0	1.0	1.0
Both sides	1.8	1.8	1.0	1.0	1.0	1.0
Replace rear swing arm and/or bearings or rear fork pivot shaft	2.0	2.0	1.6	1.6	1.6	1.6
Replace rear shock absorber assembly – Both sides	1.6	1.6	1.6	1.6	1.6	1.6
Replace kickstand spring and/or stand	0.3	0.3	0.3	0.3	0.3	0.3

JOB DESCRIPTION	NX, NY	N1, 31	T1, C1	51	T2, 52	N2
BRAKES						
Replace hydraulic brake line – Including filling and bleeding brakes						
Front	0.6	0.6	0.6	0.6	0.6	0.6
Rear	0.6	0.6	0.6	0.6	0.6	0.6
Replace brake pads						
Front	0.7	0.7	0.3	0.3	0.3	0.5
Rear	0.3	0.3	0.3	0.3	0.3	0.7
Replace brake caliper – Including filling and bleeding brakes						
Front	0.6	0.6	0.4	0.4	0.4	0.6
Rear	0.6	0.6	0.4	0.4	0.4	0.6
Replace brake disc						
Front	0.8	0.8	0.8	0.8	0.8	0.8
Rear	1.2	1.2	1.0	1.0	1.0	1.2
Bleed brake caliper						
Front	0.3	0.3	0.3	0.3	0.3	0.3
Rear	0.3	0.3	0.3	0.3	0.3	0.3
Replace master cylinder assembly – Including filling and bleeding Brakes						
Front	0.6	0.6	0.6	0.6	0.6	0.6
Rear	0.7	0.7	0.7	0.7	0.7	0.7
Rebuild master cylinder assembly – Including filling and bleeding brakes						
Front	0.8	0.8	0.8	0.8	0.8	0.8
Rear	0.8	0.8	0.8	0.8	0.8	0.8
Replace rear brake pedal	0.4	0.4	0.4	0.4	0.4	0.4
Replace front brake lever	0.2	0.2	0.2	0.2	0.2	0.2
SEATS / FENDERS / TANKS						
Replace seat only	0.1	0.1	0.1	0.1	0.1	0.1
Replace front fender	1.1	1.1	0.5	0.5	0.5	1.1
Replace rear fender	2.0	2.0	1.0	1.0	1.0	2.0
Replace fuel tank						
Left half	0.5	0.5	0.5	0.5	0.5	0.5
Right half	0.5	0.5	0.5	0.5	0.5	0.5
Replace petcock	0.3	0.3	0.3	0.3	0.3	0.3
Replace oil tank and/or rubber mount(s)	1.3	1.3	1.3	1.3	1.3	1.3
Replace any single oil hose	0.2	0.2	0.2	0.2	0.2	0.2

JOB DESCRIPTION	NX, NY	N1, 31	T1, C1	51	T2, 52	N2
EXHAUST SYSTEM						
Replace complete exhaust system and/or gaskets/inter-connect 2 into 1	0.8	0.8	0.8	0.8	0.8	0.8
Replace exhaust pipe – Dual exhaust system						
Front			0.4		0.4	
Rear			0.4		0.4	
Replace any muffler	0.2	0.2	0.2	0.2	0.2	0.2
Replace any exhaust shield	0.2	0.2	0.2	0.2	0.2	0.2
ENGINE						
Remove and install engine	5.0	5.0	5.0	5.0	5.0	5.0
Remove and replace oil tank for inspection	1.3	1.3	1.3	1.3	1.3	1.3
CYLINDER HEAD						
Recondition cylinder head – Includes removal of head and gasket, remove carbon, service valve guides, grind valves and seats, test springs and install head and gaskets						
Front head	4.6	4.6	4.6	4.6	4.6	4.6
Rear head	4.6	4.6	4.6	4.6	4.6	4.6
Both heads	5.3	5.3	5.3	5.3	5.3	5.3
Replace cylinder head – One head	3.3	3.3	3.3	3.3	3.3	3.3
Both heads	4.0	4.0	4.0	4.0	4.0	4.0
Replace valve seal or spring after cylinder head removal – One seal or spring (intake or exhaust)	0.2	0.2	0.2	0.2	0.2	0.2
Both seals or springs (intake or exhaust)	0.4	0.4	0.4	0.4	0.4	0.4
Replace cylinder head gasket						
Front cylinder	2.0	2.0	2.0	2.0	2.0	2.0
Rear cylinder	2.0	2.0	2.0	2.0	2.0	2.0
Both cylinders	2.5	2.5	2.5	2.5	2.5	2.5
Replace rocker arm covers and/or gaskets						
Front cylinder	1.0	1.0	1.0	1.0	1.0	1.0
Rear cylinder	1.0	1.0	1.0	1.0	1.0	1.0
Both cylinders	1.2	1.2	1.2	1.2	1.2	1.2
Recondition rocker arms after heads are removed						
One head	1.0	1.0	1.0	1.0	1.0	1.0
Both heads	1.8	1.8	1.8	1.8	1.8	1.8
Replace lower rocker arm cover/gasket, or rocker arms and/or shafts rocker arm support						
Front cylinder	1.5	1.5	1.5	1.5	1.5	1.5
Rear cylinder	1.5	1.5	1.5	1.5	1.5	1.5
Both cylinders	1.8	1.8	1.8	1.8	1.8	1.8
Replace cylinder base gasket						
Front cylinder	2.3	2.3	2.3	2.3	2.3	2.3
Rear cylinder	2.3	2.3	2.3	2.3	2.3	2.3
Both cylinders	2.9	2.9	2.9	2.9	2.9	2.9

JOB DESCRIPTION	NX, NY	N1, 31	T1, C1	S1	T2, S2	N2
CYLINDER AND PISTON						
Recondition TOP END – Includes disassembly, deglazing cylinder and replacing rings, or replacing cylinder and piston, all items listed under RECONDITIONING CYLINDER HEAD and assembly.						
One piston and cylinder	5.4	5.4	5.4	5.4	5.4	5.4
Both pistons and cylinders	6.4	6.4	6.4	6.4	6.4	6.4
Replace piston rings – Includes deglazing cylinder						
One cylinder	2.7	2.7	2.7	2.7	2.7	2.7
Both cylinders	3.5	3.5	3.5	3.5	3.5	3.5
Replace piston and piston rings – Includes removal of cylinder head and cylinder, fitting new piston with rings, resizing cylinder and assembly.						
One cylinder	3.3	3.3	3.3	3.3	3.3	3.3
Both cylinders	4.5	4.5	4.5	4.5	4.5	4.5
Replace cylinder and piston						
One cylinder	2.6	2.6	2.6	2.6	2.6	2.6
Both cylinders	3.3	3.3	3.3	3.3	3.3	3.3
Replace upper connecting rod bushing during upper end repair	0.5	0.5	0.5	0.5	0.5	0.5
Replace one cylinder stud – Cylinder removed	0.2	0.2	0.2	0.2	0.2	0.2
GEAR CASE						
Replace lifter block/gasket or lifter						
One	1.7	1.7	1.7	1.7	1.7	1.7
Both	2.0	2.0	2.0	2.0	2.0	2.0
Replace push rod, push rod cover and/or O-ring or quad seal						
One or two same cylinder	1.5	1.5	1.5	1.5	1.5	1.5
One each cylinder	2.0	2.0	2.0	2.0	2.0	2.0
Replace cam cover and/or gasket	1.7	1.7	1.7	1.7	1.7	1.7
Replace cam gear	2.7	2.7	2.7	2.7	2.7	2.7
Replace oil pump	2.0	2.0	2.0	2.0	2.0	2.0
Replace pinion gear	2.6	2.6	2.6	2.6	2.6	2.6
Replace breather valve	2.6	2.6	2.6	2.6	2.6	2.6
Replace oil pump drive shaft	5.0	5.0	5.0	5.0	5.0	5.0

JOB DESCRIPTION	NX, NY	N1, 31	T1, C1	51	T2, 52	N2
CRANKCASE						
Replace crankcases (shim mounts)	10.1	10.1	10.1	10.1	10.1	10.1
Seal crankcase only	9.1	9.1	9.1	9.1	9.1	9.1
Replace flywheels – Includes engine removal and installation	10.0	10.0	10.0	10.0	10.0	10.0
Replace connecting rod assembly	10.1	10.1	10.1	10.1	10.1	10.1
Check flywheel trueness before assembly or after removal	0.1	0.1	0.1	0.1	0.1	0.1
True flywheels after removal – Includes piston removal and reinstallation	0.6	0.6	0.6	0.6	0.6	0.6
FUEL SYSTEM						
Replace air cleaner backing plate	0.2	0.2	0.2	0.2	0.2	0.2
Replace air cleaner cover	0.1	0.1	0.1	0.1	0.1	0.1
Replace carburetor	0.6	0.6	0.6	0.6	0.6	0.6
Replace intake manifold and/or gasket one or both	1.3	1.3	1.3	1.3	1.3	1.3
Replace carburetor float valve or jet, or check float level or seal	0.6	0.6	0.6	0.6	0.6	0.6
Replace accelerator pump	0.6	0.6	0.6	0.6	0.6	0.6
EVAPORATIVE EMISSIONS SYSTEM						
Replace canister – California vehicles only	0.4	0.4	0.4	0.4	0.2	0.4
DRIVE/CLUTCH						
Replace engine sprocket seal						
Dry clutch	1.1	1.1	1.1	1.1		
Wet clutch		2.0	2.0	2.0	2.0	2.0
Replace primary cover	0.4	0.5	0.5	0.5	0.5	0.5
Replace primary cover gasket			0.5	0.5	0.5	0.5
Replace primary inspection cover and/or O-ring	0.2	0.2	0.2	0.2	0.2	0.2
Replace inner primary case and/or mainshaft bearing						
Dry clutch	2.3	3.0	2.3	2.5		
Wet clutch			3.0	3.0	3.0	3.0
Adjust clutch	0.5	0.5	0.5	0.5	0.5	0.5
Replace clutch cable assembly	1.0	1.0	1.0	1.0	1.0	1.0
Service the clutch – Including disassembly, cleaning, inspection, repair, assembly and adjustment	1.3	1.5	1.5	1.5	1.5	1.5
Replace clutch release bearing and/or push rod end	0.5	0.5	0.5	0.5	0.5	0.5
Replace clutch release mechanism (ball ramp) and/or cover	0.8	0.8	0.8	0.8	0.8	0.8

JOB DESCRIPTION	NX, NY	N1, 31	T1, C1	51	T2, 52	N2
TRANSMISSION						
Replace transmission case	6.0	6.0	6.0	6.0	6.0	6.0
Replace transmission complete	4.0	4.0	4.0	4.0	4.0	4.0
Overhaul transmission – Including disassembly, cleaning, inspection, replacing parts (transmission case in frame)	7.5	7.5	7.5	7.5	7.5	7.5
Replace main drive gear oil seal (in trans. case)	3.0	3.0	3.0	3.0	3.0	3.0
Replace mainshaft oil seal (in main drive gear)	2.8	2.8	2.8	3.0	3.0	3.0
Replace side door gasket	3.0	3.0	3.0	3.0	3.0	3.0
Replace shifter drum – Including removal and installation	3.0	3.0	3.0	3.0	3.0	3.0
Replace shifter arm assembly or springs – Including adjusting gear engagement	4.5	4.5	4.5	4.5	4.5	4.5
Replace transmission top cover and/or gasket – Including oil tank and starter removal	2.5	2.5	2.5	2.5	2.5	2.5
Replace shifter forks and/or shaft – Including checking gear engagement	2.5	2.5	2.5	2.5	2.5	2.5
Replace side door bearing						
One	3.1	3.1	3.4	3.4	3.4	3.1
Both	3.3	3.3	3.6	3.6	3.6	3.3
Replace transmission case countershaft bearing	3.8	3.8	3.8	3.8	3.8	3.8
Replace main drive gear and/or bearing	4.2	4.2	4.2	4.2	4.2	4.2
Replace side cover gasket	0.7	0.7	0.7	0.7	0.7	0.7
Replace transmission shift lever	0.2	0.2	0.2	0.2	0.2	0.2
Replace transmission shifter shaft seal	2.5	2.5	2.5	2.5	2.5	2.5
ELECTRICAL, General						
Check and diagnose the electrical system						
Ignition circuit	0.3	0.3	0.3	0.3	0.3	0.3
Charging circuit	0.3	0.3	0.3	0.3	0.3	0.3
Lights and accessories						
Starter circuit						
ELECTRICAL, Wiring						
Replace main wiring harness	2.7	2.7	2.7	2.7	2.7	2.7
Replace rear fender wiring harness	1.0	1.0	1.0	1.0	1.0	1.0
Replace any single wire	0.3	0.3	0.3	0.3	0.3	0.3

JOB DESCRIPTION	NX, NY	N1, 31	T1, C1	S1	T2, S2	N2
ELECTRICAL, Switches						
Replace handlebar control switch (turn signal, horn, starter)						
One switch	0.8	0.8	0.8	0.8	0.8	0.8
Any additional switch in the same control	0.8	0.8	0.8	0.8	0.8	0.8
Replace ignition switch	0.5	0.5	0.5	0.5	0.5	0.5
Replace rear stoplight switch – Includes filling / bleeding brakes	0.5	0.5	0.5	0.5	0.5	0.5
Replace transmission neutral switch (may need to loosen tank)	0.8	0.8	0.8	0.8	0.8	0.6
Replace oil pressure switch	0.4	0.4	0.4	0.4	0.4	0.4
Replace front brake stop switch	0.8	0.8	0.8	0.8	0.8	0.8
ELECTRICAL, lights						
Replace headlight	0.5	0.5	0.3	0.3	0.3	0.5
Replace headlight housing - Includes adjustment	0.7	0.7	0.5	0.5	0.5	0.7
Replace instrument panel bulb or lens						
Replace taillight or single light bulb or lens	0.2	0.2	0.2	0.2	0.2	0.2
Replace taillight assembly	0.3	0.3	0.3	0.3	0.3	0.3
ELECTRICAL, Stator/Regulator						
Replace stator rotor – Includes retesting system						
Wet	2.7	2.7	2.6	2.6	2.6	2.7
Dry	1.7	1.7	1.7			
Replace stator – Includes retesting system						
Wet	3.0	3.0	3.0	3.0	3.0	3.0
Dry	1.7		1.7			
Replace regulator/rectifier – Includes retesting system	0.6	0.6	0.6	0.6	0.6	0.6
ELECTRICAL, Ignition System						
Adjust timing	0.4	0.4	0.4	0.4	0.4	
Replace electronic ignition module – Includes checking timing	0.6	0.6	0.6	0.6	0.6	0.6
Replace electronic ignition sensor – Includes checking timing	0.6	0.6	0.6	0.6	0.6	0.2
Replace electronic ignition rotor – Includes checking timing	0.5	0.5	0.5	0.5	0.5	0.4
ELECTRICAL, Ignition coil						
Replace ignition coil	0.5	0.5	0.5	0.5	0.5	0.5
ELECTRICAL, Battery/Horn						
Replace the battery – Includes activating	0.5	0.5	0.5	0.5	0.5	0.5
Replace horn and/or bracket	0.3	0.3	0.3	0.3	0.3	0.3

MODEL PREFIX & JOB TIME IN HOURS

JOB DESCRIPTION	NX, NY	N1, 31	T1, C1	S1	T2, S2	N2
ELECTRICAL, Starter Motor						
Replace starter jackshaft or starter	2.0	2.0	2.0	2.0	2.0	2.0
ELECTRICAL, Starter Circuit						
Starter inoperative – open/shorted/ground motor	1.6	1.5	1.5	1.5	1.5	1.5
Starter inoperative – start button	0.9	0.9	0.9	0.9	0.9	0.9
Starter inoperative – solenoid clicks; poor starter or battery connections	0.1	0.1	0.1	0.1	0.1	0.1
Starter inoperative – solenoid clicks; poor relay or solenoid connections, or bad relay contacts	0.3	0.3	0.3	0.3	0.3	0.3
Starter inoperative – solenoid clicks; poor starter to battery connections, ground connections or bad solenoid contacts	0.5	0.5	0.5	0.5	0.5	0.5
Starter inoperative						
damaged motor	1.6	1.5	1.5	1.5	1.5	1.5
relay click; open in relay wiring	0.5	0.5	0.5	0.5	0.5	0.5
nothing clicks; poor relay ground	0.3	0.3	0.3	0.3	0.3	0.3
nothing clicks; short to voltage	0.4	0.4	0.4	0.4	0.4	0.4
nothing clicks; open in wiring to or from starter button	0.6	0.6	0.6	0.6	0.6	0.6
starter relay	0.2	0.2	0.2	0.2	0.2	0.2
Starter spins, but does not engage; jackshaft						
Slow starter crank or starter stalls; poor starter to battery connections, ground connections	0.2	0.2	0.2	0.2	0.2	0.2
Slow starter crank or starter stalls; poor starter to battery connections, ground connections	0.2	0.2	0.2	0.2	0.2	0.2
Slow starter crank or starter stalls – binding	0.3	0.3	0.3	0.3	0.3	0.3
Starter spins – clutch	1.8	1.7	1.7	1.7	1.7	1.7
INSTRUMENTS						
Replace speedometer	0.5	0.5	0.5	0.5	0.5	0.5
Replace dash	0.5	0.5	0.5	0.5	0.5	0.5
Electronic Speedometer:						
Diagnose inoperative, inaccurate or erratic speedometer	0.3	0.3	0.3	0.3	0.3	0.3
Diagnose inoperative, inaccurate or erratic speedometer – Inoperable	0.2	0.2	0.2	0.2	0.2	0.2
Diagnose inoperative, inaccurate or erratic speedometer – Internal	0.4	0.4	0.4	0.4	0.4	0.4
Diagnose and clean sensor – Debris on sensor	0.5	0.5	0.5	0.6	0.6	0.5
Diagnose and replace speedo sensor	0.6	0.6	0.6	0.6	0.6	0.6

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

