### BEFORE YOU START

#### Full Inspection
- **1** Test drive vehicle to confirm owner’s comments
- **2** Inspect tire condition
- **3** Check suspension
  - Tie Rods
  - Ball Joints
  - Shocks
  - CV Axles
  - Bushings
- **4** Check for end play
- **5** Inspect master cylinder, booster, ABS unit and other valves
- **6** Pull all four wheels
  - Mark rotor and drum to stud

#### Disc Brake Inspection
- **7** Inspect floating caliper
  - Free movement
  - Piston pullback
- **8** Inspect rotor
  - Grooves
  - Discoloration
  - Proper thickness
- **9** Inspect caliper body condition and bracket/strut for damage or wear
- **10** Inspect hardware and rubber components
- **11** Inspect brake hoses
- **12** Inspect pads
  - Taper or uneven wear
  - Delamination
  - Shape of shim
  - Measuring lining thickness
- **13** Check run-out

#### Drum Brake Inspection
- **14** Remove drums
- **15** Inspect drum
  - Grooves
  - Discoloration
  - Wear
  - Maximum diameter
- **16** Inspect wheel cylinders for leakage
- **17** Inspect hardware
  - Springs and pins
  - Return and hold down items
  - Parking brake levers
  - Back plates
- **18** Inspect shoes
  - Wear pattern
  - Cracking
  - Measure lining thickness
- **19** Write estimate based on MAP guidelines and inspection

### STARTING THE JOB

#### Disc Brakes
- **20** Drain and refill fluid in master cylinder
- **21** Clamp off brake hose with proper line locks
- **22** Remove caliper body and support using wire or other means
- **23** Index the rotor to the stud then remove the rotor
- **24** Clean hubs
- **25** If machining, sand with 120 grit paper for one minute per side
- **26** Wash rotor with soap and water if new or machined
- **27** Install rotor and check lateral run-out on vehicle with lugs torqued to specs
- **28** Clean and lubricate caliper bracket and slides
- **29** Lubricate pads at all metal-to-metal contact points to include shim on backing plate
- **30** Install new brake pads and new hardware
  - NAPA® Adaptive One®
  - NAPA® Ultra Premium™
  - NAPA® Premium™
  - NAPA® Proformer™
- **31** Install caliper
  - Torque all bolts to specification
- **32** Remove hose clamp
- **33** Flush and bleed brake system

#### Drum Brakes
- **34** Wash brake assembly with proper equipment
- **35** Disassemble brake system
- **36** Lubricate backing plate at shoe rest
- **37** Install brake shoes and new hardware
- **38** Wash drums with soap and water if new or machined
- **39** Flush and bleed brake system
- **40** Install drum and adjust shoe-to-drum clearance with proper tool, if applicable

### FINALIZE

#### The Perfect Brake Job®
- **41** Check pedal height
- **42** Install wheels and torque to specifications
- **43** Fill the master cylinder to the proper level
- **44** Test drive vehicle and bed in brakes, to ensure customer satisfaction

Visit NAPAbra kes.com for more information regarding brake repair procedures.