**FAULT-FINDING CHART: IV** VEHICLE NOISES OORS AND WINDOWS **BELOW FRONT BELOW REAR FRONT OF BONNET** OF VEHICLE OF VEHICLE Radiator: Loose grill clips Rubber strips worn Loose supporting rods **Bumpers:** Loose bolts and Exhaust pipe: Loose brackets Worn rubber stoppers nuts Worn rubber Flexible mountings Door out of place by mountings Shock worn movement of hinges absorbers: Worn bushes Loose boits Springs: Dry shackles Door catch requires Springs: Dry shackles adjustment If spring mounted Dry springs loose springs Dry springs Wheel Shock Worn webbing bearings: Dry bearings Worn bushes absorbers: on radiator Holding screws loose Joints: Loose and dry Wheel Distributor: Shaft dry, needs oil joints, e.g., clutch, bearings: Dry bearings No grease on joints brake, etc. Water pump and rollers Luggage and fan: Dry bearings compartment: Loose tools Runners worn Generator: Dry bearings Number plate: Loose or vibrating Number plate: Loose or vibrating **FAULT-FINDING CHART: V** VEHICLE FAULTS **GEARS BRAKES STEERING** No free movement Gears hard Brakes fail: Connecting link Hard steering: Flat tires of clutch pedal to change: Clutch dragging between pedal and No oil in steering box master cylinder Noisy gears: No oil in gear box broken or disconnected Vehicle wanders: Too much play in Too much free move-Gear lever Brake pipe lines all joints ment of clutch slips out of broken engagement: Worn gears Wheel bearings loose **Brakes** pull Loose engine Worn selector socket to one side: Oil leak from brake Front wheel mountings and ball cylinder on free side jerks from side to side: Uneven or flat tires Worn and dirty clutch No drive: Gears stripped Oil on brake linings Too much play in **Brakes** hard steering box to put on: Brake linings worn Loose steering joints Drums badly scored and mountings Faulty shock NGS absorbers **PROPELLER** Wheels feel SHAFT egg-shaped **REAR AXLE** at high speed: Wheel unbalanced Steering out of Worn shackles alignment Vibration: Loose bolts at end Noisy of shaft at gear Shock absorbers loose rear axle: No oil in axle Loose engine box and rear axle mountings No drive: Broken axle Worn or no rubber Worn universal bushes Propeller shaft joints unbalanced No fluid in Worn bearings shock absorber Shock absorber faulty steering: All joints loose or worn Shock absorber onnecting link Worn king pins broken or disconnected Loose or worn wheel bearings HARPER'S WEEKLY, August 22, 1975 Vehicle pulls to one side: Flat tire on one side International Labor Organization, United Nations Broken spring or loose U bolts at front or rear of vehicle