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| Diagnostic Chart for Air Conditioning System      |                   |                     |                             |  |                              |                              |                             |               |
|---|-------------------|---------------------|-----------------------------|--|------------------------------|------------------------------|-----------------------------|---------------|
| Condition   | Low Side Pressure | High Side Pressure  | Sight Glass                 | Suction Line                                       | Receiver Dryer               | Liquid Line                  | Discharge Line              | Discharge Air |
| Lack of Refrigerant                               | Very low          | Very low            | Clear                       | Slightly cool                                      | Slightly warm                | Slightly warm                | Slightly warm               | Warm          |
| Lack of Refrigerant                               | Low               | Low                 | Bubbles                     | Cool   | Warm to hot                  | Warm                         | Warm to hot                 | Slightly cool |
| Compressor Failure                                | High              | Low                 | Clear                       | Cool   | Warm                         | Warm                         | Warm                        | Slightly cool |
| Condenser Malfunction                             | High              | High                | Clear to occasional bubbles | Slightly cool to warm                              | Hot                          | Hot                          | Hot                         | Warm          |
| Expansion Valve Stuck Open                        | High              | High to Normal      | Clear                       | Cold - sweating or frosting heavily                | Warm                         | Warm                         | Hot                         | Slightly cool |
| Expansion Valve Stuck Closed                      | Low               | Low                 | Clear                       | Cold - sweating or frosting heavily at valve inlet | Warm                         | Warm                         | Hot                         | Slightly cool |
| Restriction between Condenser and Expansion Valve | Low               | Low                 | Clear                       | Cool   | Cool or sweating or frosting | Cool or sweating or frosting | Hot to point of restriction | Slightly cool |
| Restriction between Compressor and Condenser      | High              | High, normal or low | Clear                       | Slightly cool to warm                              | Warm or hot                  | Warm or hot                  | Hot                         | Warm          |
| Normal  | Normal            | Normal              | Clear                       | Cool<br>Possible light sweat                       | Warm                         | Warm                         | Hot                         | Cool          |
| Source: Dan, Brattain Int'l Salem, OR             |                   |                     |                             |  |                              |                              |                             |               |
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